

2020 Semi-Annual Groundwater Monitoring & Corrective Action Report

Plant Bowen

Cells 1 & 2

Cells 3 & 4

Cells 9 & 10

Solid Waste Disposal Facility

Permit No. 008-018D (LI)

Prepared for:



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**GEORGIA POWER COMPANY
PLANT BOWEN
SOLID WASTE DISPOSAL FACILITY
PERMIT NO. 008-018D (LJ)**

**2020 SEMI-ANNUAL
GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT**

CERTIFICATION STATEMENT

This 2020 Semi-Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Bowen Solid Waste Facility Landfill Cells 1 & 2, 3 & 4, and 9 & 10 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 Wood Environment & Infrastructure Solutions, Inc.



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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D and the Georgia Environmental Protection Division (EPD) Rules of Solid Waste Management 391-3-4-.10, this 2020 Semi-Annual Groundwater Monitoring & Corrective Action Report has been prepared to document groundwater monitoring activities conducted during the first semi-annual 2020 monitoring event at Georgia Power Company's (GPC's) Plant Bowen solid waste disposal facility Cells 1 & 2, 3 & 4, and 9 & 10 (Site).

Groundwater monitoring is conducted under the requirements of the Georgia Solid Waste Permit No. 008-018D (LI) and in accordance with the specifications in the Design and Operation (D&O) Plan. This includes semi-annual groundwater sampling and groundwater level monitoring at the Site. A minor modification, dated August 9, 2017, approved the addition of Appendix III and IV parameters contained in the U.S. Federal regulations 40 CFR 257 Subpart D to the groundwater monitoring plan in Solid Waste Permit No. 008-018D (LI). An application for a new Georgia CCR permit was submitted in November 2018 for the facility to replace the Solid Waste Permit. The Georgia CCR permit is pending from EPD.

This report provides the results from the semi-annual sampling event conducted in March 2020 at Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10. This sampling event included the scheduled semi-annual sampling for EPD's Solid Waste Permit constituents and the US EPA's CCR Appendix III constituents. This report satisfies the reporting requirements of applicable Georgia EPD Solid Waste Management Rules (391-3-4-.14) and Federal and Georgia CCR Rule 40 CFR 257.90 (e) and 391-3-4-.10. In this report, for ease of reference when discussing the CCR Rules, the USEPA CCR Rules are cited.

1.1 Site Description and Background

GPC's Plant Bowen solid waste disposal facility is located in Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome (**Figure 1: Site Location Map**). The disposal facility is approximately 300 acres located on a previously undeveloped, contiguous portion of the plant property. The Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 are located on the northeast portion of the Plant Bowen property. The disposal facility receives coal combustion by-products, coal ash and gypsum, from coal power generating processes at the Site. The landfill cells are lined in accordance with Solid Waste Permit No. 008-018D (LI). Cells 3 & 4 have a leachate collection system. Gypsum placement in disposal Cells 1 & 2 began in November 2008, whereas ash placement in disposal Cells 3 & 4 began in February 2015. Waste placement operations were initiated in Cells 9 & 10 in November 2015. Cells 9 & 10 are only used to store non-marketable gypsum. Cells 5, 6, 7, and 8 are undeveloped at this time and will be used as future cells.

A well network around each of the active disposal cells monitors the groundwater conditions at the Site. The monitoring well locations are shown in **Figure 2: Monitoring Well Network - March 2020**. A subset of the monitoring wells is equipped with data loggers and telemetry

systems for water level measurements and data transmission for real-time monitoring of groundwater levels in the subsurface karst geology.

Background sampling for CCR parameters began in February 2016 and was completed in August 2017. The CCR background study results and statistical analysis were presented in the 2017 Annual Groundwater Monitoring and Corrective Action Report required under the CCR Rules. This report presents the data for one semi-annual sampling event for CCR and Solid Waste Permit constituents conducted in 2020. The Site status remains in detection monitoring.

1.2 Regional Geology and Hydrogeologic Setting

The geology and hydrogeology of the Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 area are summarized below. The Site lies within the Valley and Ridge physiographic province about three to four miles north of the Cartersville Fault. The Cartersville Fault separates the late Precambrian-aged metamorphic rocks to the east and south from the Cambrian-aged sedimentary rocks to the north-northwest and west.

The lithologies present in the landfill area of the Site from the ground surface to depth are terrace deposits, a residuum clay overburden, dolomite, and limestone bedrock. The Knox Group (dolomite and limestone bedrock) produces a characteristic orange to red clayey residuum (overburden) that ranges in thickness from 19 to 127 feet across the Site and often contains weathered chert and dolomite fragments. Silt and clay with some gravel and sand (terrace deposits) overlay the clayey residuum in some areas but are not continuous across the landfill area.

Two main hydrostratigraphic layers (water-bearing zones) are present at the Site: overburden (residuum clay), and bedrock (dolomite and limestone) – both units comprise the uppermost aquifer for groundwater monitoring purposes. Overburden materials are very heterogeneous ranging in composition from well-graded gravelly sand to fat clay. Bedrock underlying the Site (officially mapped as Knox undifferentiated) is a carbonate bedrock. Karst features within the underlying carbonate bedrock are predominately formed along initial discontinuities including joints, fissures (slots), fractures, and bedding planes or other linear features. These karst features may be partially or completely filled with soft unconsolidated sediments or may be empty or filled with water.

The water table commonly occurs in the lower overburden, but at some locations the water table is near the overburden-bedrock interface or in the upper fractured bedrock. Based on this data, it is likely that the overburden and upper fractured bedrock are essentially a single inter-connected water-bearing zone below the unsaturated overburden. Therefore, the overburden and the upper fractured sedimentary bedrock together comprise the uppermost aquifer beneath the landfill area.

The groundwater flow in the Landfill Cells 1 & 2, 3 & 4, 9 & 10 area is to the north-northeast and west-northwest. However, there are variations in groundwater flow direction due to heterogeneous and anisotropic conditions at the Site.

1.3 Groundwater Monitoring Network

There are three developed disposal units comprising the CCR Landfill: Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10. The groundwater monitoring network is described below.

A groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units within the uppermost aquifer. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction. **Tables 1A to 1C: Summary of Well Construction and Groundwater Elevations Cells 1 & 2, Cells 3 & 4, Cells 9 & 10** provide the pertinent construction details for the well network at the Site.

The current monitoring well network at disposal Cells 1 & 2 consists of 29 wells (9 upgradient and 20 downgradient wells) at 17 locations, as a result of some wells located in a cluster representing the overburden and the bedrock. Sixteen wells are screened in the overburden and 13 wells in the upper bedrock. Additionally, five wells are monitored for water levels only.

The current monitoring well network at disposal Cells 3 & 4 consists of 23 monitoring wells at 19 locations. Nine wells are screened in the overburden and 14 wells in the upper bedrock. This well network currently consists of 12 upgradient wells and 11 downgradient wells.

The current monitoring network at disposal Cells 9 & 10 consists of 17 monitoring wells at 11 locations. Ten wells are screened in the overburden and 7 wells in the upper bedrock. This well network currently consists of 8 upgradient wells and 9 downgradient wells.

The monitoring wells were sampled for the 16 Solid Waste Permit metals and 5 field parameters, as specified in the D&O Plan for the Site. The wells were also sampled for the 7 CCR Appendix III parameters. In accordance with § 391-3-4 for the Solid Waste Permit metals and § 257.94(e) for the Appendix III parameters, data from all wells were compared to the appropriate standards in accordance with regulatory requirements for drinking water.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed during the March 2020 semi-annual event and discusses the status of the monitoring program. In March 2020, samples were collected from each well in the certified monitoring system shown on **Figure 2**.

2.1 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system during the 2020 semi-annual event; the network remained the same as in the previous reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the well area conditions, and performing exterior maintenance to conduct sampling under safe and clean conditions. The well inspection forms are included in **Appendix A: Laboratory Analytical Data and Field Sampling Reports for March 2020**. The inspections indicated some of the well pads needed repairs for cracks or erosion starting to form beneath the pads. A few wells needed new caps or locks. Repairs to address most of the inspection findings were conducted in July and other repairs are in progress.

2.2 Detection Monitoring Program

In accordance with § 257.94(b), the detection groundwater monitoring program continued during the March 2020 semi-annual event. Groundwater samples were collected semi-annually from each monitoring well in the monitoring network and analyzed for Appendix III constituents (boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids) according to § 257.94(a). Data reports for the March 2020 detection monitoring event are included in **Appendix A: Laboratory Analytical Data and Field Sampling Reports for March 2020**. Statistical exceedances were identified during the March 2020 monitoring event and were addressed with alternate source demonstrations.

2.3 Other Groundwater Sampling

In addition to sampling and analyzing the Appendix III parameters, the 16 Solid Waste Permit metals listed below were also sampled and analyzed concurrent with the 2020 semi-annual CCR detection monitoring event as required by the Georgia Solid Waste Permit (No. 008-018D (LI)).

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Cobalt	Copper	Lead	Mercury	Nickel	Selenium
Silver	Thallium	Vanadium	Zinc		

The laboratory reports for this monitoring event are provided in **Appendix A**.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to conduct groundwater monitoring at Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 during the March 2020 semi-annual event.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from each well in the certified networks for Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10. Groundwater levels recorded during the March 2020 monitoring event are summarized in **Tables 1A to 1C: Summary of Well Construction and Groundwater Elevations Cells 1 & 2, Cells 3 & 4, Cells 9 & 10**. Groundwater elevations vary between landfill cells due to topographic variations and anisotropic conditions in the overburden-bedrock aquifer. Also, groundwater elevations are mostly similar between the overburden and the upper bedrock at most onsite locations indicating a hydraulic communication between the overburden and upper bedrock. Groundwater levels typically varied within a one foot range in the overburden and upper bedrock within most well clusters, with the exception of well clusters, namely, GWA-50/GWA-50R, GWC-6/GWC-6RZ, GWC-13/GWC-13RZ, and GWC-45/GWC-45R that showed greater variations.

Groundwater levels from the March 2020 detection monitoring event were used to develop potentiometric surface elevation contour maps provided as **Figure 3: Potentiometric Surface – Overburden Wells Event 14 (February 2020)**, and **Figure 4: Potentiometric Surface – Rock Wells Event 14 (February 2020)**. The general direction of groundwater flow in the overburden of Landfill Cells 1 & 2 and 9 & 10 area is to the north-northeast. Groundwater flow in the overburden in the Landfill Cells 3 & 4 was to the west-northwest on February 28, 2020 (**Figure 3**). The general groundwater flow direction in the bedrock is similar to the overburden, with groundwater flow in the bedrock of Landfill Cells 1 & 2 and 9 & 10 area is to the north-northeast. Groundwater flow in the bedrock in the Landfill Cells 3 & 4 area is to the west-northwest (**Figure 4**). The groundwater flow patterns observed during the March 2020 detection monitoring event was consistent with historic observations.

3.2 Groundwater Gradient and Flow Velocity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of 0.01 (based on default soil type value for silty clays to clays in USEPA 530/SW-89-031) of the screened horizon. The average hydraulic conductivity (measured in centimeters/second or cm/sec) values used in the soil aquifer calculations (2.54×10^{-5} cm/sec = 0.072 ft/day) and the bedrock aquifer calculations (1.26×10^{-4} cm/sec = 0.36 ft/day) are presented in the *Plant Bowen Proposed Coal Combustion By-Product Storage Facility Site Acceptability Report* (Southern Company Services, 2002). Measured hydraulic conductivity data in the uppermost aquifer at the Site are lower than many karst aquifers, but comparable to fractured carbonate aquifers in the Valley & Ridge region. The hydraulic gradients were calculated between well pairs. Horizontal groundwater flow velocities at Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 were calculated using the commonly-used derivative of Darcy's Law:

Where:

$V =$ Groundwater flow velocity $\left(\frac{\text{feet}}{\text{day}}\right)$

$K =$ Average Hydraulic Conductivity of the aquifer $\left(\frac{\text{feet}}{\text{day}}\right)$

$i =$ Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{feet}}\right)$

$n_e =$ Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the Site for both overburden and bedrock and are tabulated on **Table 2: Groundwater Flow Velocity Calculations – March 2020**. The velocities presented on **Table 2** were calculated using groundwater elevation data measured on February 28, 2020.

Estimated linear groundwater flow velocities presented in **Table 2** are similar to historical data from the Site. Estimated linear groundwater flow velocities for March 2020 sampling event range from approximately 0.03 to 0.06 feet per day in the overburden and from approximately 0.04 to 0.59 feet per day in the upper fractured bedrock (**Table 2**). Lower groundwater velocities noted in the overburden material are due to the abundance of residual clays in this zone. Higher velocities noted in the upper fractured bedrock are attributed to preferential groundwater flow in the fractured bedrock. Groundwater flow in the Knox Dolomite Formation, underlying the Site, occurs in joints, fractures, bedding planes, and solution channels (Croft, 1963). These pathways can facilitate relatively higher groundwater flows in the upper fractured bedrock. However, the flow rates noted in the wells screened in the upper fractured bedrock (**Table 2**) also suggest an abundance of residual clays in the epikarst zone at the Site.

3.3 Continuous Water Level Monitoring (Hydrogeologic Monitoring)

GPC continuously monitors groundwater level fluctuations in accordance with the *Plant Bowen Site Acceptability Report - Hydrogeological Assessment and Demonstration of Engineering Measures* (Southern Company Services, 2004). The hydrogeologic monitoring network provides site-wide water-level data which is evaluated for changes in subsurface hydrologic conditions. The hydrogeologic data is evaluated weekly and reported semi-annually by Wood. The telemetry equipment maintenance is performed by Wood.

3.3.1 Hydrogeologic Monitoring Network

Hydrogeologic monitoring locations shown on **Figure 2** for Cells 1 & 2, 3 & 4, and 9 & 10 were selected following analysis of the interim data and review of historical groundwater elevations and potentiometric surface maps. Across the landfill cells, there are a total of 37 wells currently equipped with transducers for monitoring water levels. An onsite river gauge is used to monitor surface water elevations in the Etowah River. Alternatively, the USGS river gauge (#02394670) at Cartersville, Georgia is used to monitor the surface water elevations in the Etowah River. Rainfall data is also obtained from the USGS station #02394670 on the Etowah River at Georgia Route 61 and from an on-site rain gauge.

For the hydrogeologic monitoring network, GPC utilized In-Situ® Instruments, Inc.'s Win-Situ® reporting software, and Level Troll 500® pressure transducers. Each pressure transducer was deployed in a selected monitoring well at a fixed depth and linked to its own telemetry box with a vented transducer cable. Groundwater levels are recorded multiple times daily from each well transducer and is programmed to record any fluctuation in water level of ± 0.5 feet occurring within the 4-hour recording schedule. The telemetry system relays water level data via satellite to a central data storage unit that can be accessed in real-time over the internet; whereby, the data can be checked for unusual groundwater level fluctuations. Groundwater elevations, along with the river stage elevations and rainfall data recorded between November 1, 2019 and May 1, 2020 are provided in this semi-annual monitoring report for the three disposal cell units as **Appendix C: Memorandum on Hydrogeologic Monitoring Program**.

3.3.2 Hydrogeologic Monitoring Results

The hydrogeologic monitoring network pressure transducers are operational and collecting continuous groundwater elevation data, with the exceptions described in **Appendix C**. Tables in the hydrogeologic monitoring memo (**Appendix C**) list identified data anomalies and the causes during the monitoring period. The majority of the anomalies noted in daily groundwater elevations are directly attributed to drawdown during a sampling event, manual water level gauging, well and transducer maintenance, including corrections for transducer measurement drift by updating elevations based on taped-down measurements, and mechanical/electrical problems with transducers or telemetry units, changes in river stage, or significant rain events. Hydrologic monitoring data from November 1, 2019 to May 1, 2020 did not show water level fluctuations attributed to subsurface changes that might be indicative of land subsidence or sinkhole formation.

3.4 Groundwater Sampling

Groundwater samples were collected from monitoring wells using low-flow sampling procedures. Monitoring wells were purged and sampled using a dedicated QED bladder pump or a peristaltic pump using new disposable polyethylene tubing. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, temperature, oxidation-reduction potential (ORP), and dissolved oxygen) during well purging to verify stabilization prior to sampling. Turbidity was measured using a Hach 2100Q (or similar) portable turbidity meter. Sampling equipment and pump intakes were placed at the midpoint of the well screen. Groundwater samples were collected when the following stabilization criteria were met:

- pH ± 0.1 Standard Units (S.U.)
- Specific conductance $\pm 5\%$
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater)
- Turbidity measurements less than 10 NTU

Once stabilization was achieved, samples were collected into appropriately-preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers, and submitted to Pace Analytical, Inc. in Peachtree Corners (Atlanta), Georgia following chain-of-custody protocol.

An ephemeral spring at the Site is checked for water during each groundwater sampling event. Water was present in the spring during the March 2020 event and was sampled. The analytical results of the spring sample are on the analytical summary tables and **Appendix A**.

3.5 Laboratory Analyses

Cells 1 & 2, 3 & 4 and 9 & 10 monitoring wells were sampled and analyzed for applicable state and federal monitoring parameters. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Laboratory analyses were performed by Pace Analytical Services, LLC (Pace), of Peachtree Corners (Atlanta), Georgia. The Pace Laboratory is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. In addition, Pace Laboratories are certified to perform analysis by the State of Georgia. Groundwater data laboratory reports and chain of custody records for the monitoring event are presented in **Appendix A**.

3.6 Groundwater Analytical Results

3.6.1 CCR Constituents

Tables 3, 4, and 5: Analytical Data Summary Appendix III (March 2020) Landfill Cells 1 & 2, 3 & 4, and 9 & 10 summarize the analytical data for the seven Appendix III parameters for the March 2020 sampling event. The Appendix III parameter concentrations were less than the Georgia and/or Federal drinking water maximum contaminant levels (MCLs). The complete laboratory and field data sheets are included in **Appendix A**. Time Series data for the Appendix III parameters are provided in **Appendix B: Historical Groundwater Monitoring Results and Statistical Results**.

3.6.2 Solid Waste Permit Metals

Tables 6, 7, and 8: Analytical Data Summary Solid Waste Permit Metals (March 2020) Landfill Cells 1 & 2, 3 & 4, and 9 & 10, respectively, summarize the analytical data for 16 Solid Waste Permit metals for the most recent sampling event (March 2020). Five metals (copper, nickel, silver, vanadium, and zinc) are currently being analyzed per requirements of the Georgia Solid Waste Regulations that are not required under the CCR regulations. Of these, zinc is the only constituent consistently detected above the laboratory reporting limit (RL). Zinc concentrations ranged from 0.0017 to 0.54 mg/L. The complete laboratory and field sampling reports are included in **Appendix A**. Time Series data for the Solid Waste Permit metals are provided in **Appendix B**.

In accordance with the Georgia Solid Waste Regulations, the metals data from active monitoring wells at the disposal facility were compared to Georgia drinking water MCLs. With the exception of antimony concentration in one well (GWC-16R), the other target constituents were below the MCLs as specified by US EPA and Georgia EPD. The reported antimony concentration of 0.019 mg/L in downgradient well GWC-16R was above the Georgia MCL of 0.006 mg/L. The Alternate Source Demonstration reports submitted August 2017 and April 2018 indicate that the antimony naturally occurs in groundwater at the Site and the antimony detection in GWC-16R is the result of natural

variability in groundwater quality. Therefore, no further action is necessary for the antimony SSL noted in well GWC-16R.

3.7 Quality Assurance & Quality Control

Quality assurance and quality control of the groundwater data was assessed by performing a data quality evaluation of the results reported. A data quality evaluation was conducted on the March 2020 data using laboratory precision and accuracy, analytical method requirements and requirements in the field sampling plan. The March 2020 constituent concentrations were generally within the historical range of concentrations. Those few concentrations higher than the historical range were identified as statistical exceedances. The data quality evaluations are included in **Appendix A**. The data quality evaluation showed the data is usable.

The analytical results provided in **Tables 3 to 8** provide concentrations from the most recent sampling event as reported by the laboratory. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

4.0 STATISTICAL ANALYSIS

The Site is currently performing detection monitoring. Statistical analysis of the Solid Waste Permit metals and Appendix III groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to § 257.93(f) and following the PE-certified statistical analysis plans. The statistical analysis plans used at the Site for the Appendix III parameters were developed in 2017 by MacStat Consulting, Ltd. in accordance with § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

In July 2019, Georgia EPD requested the historic data for the 16 Solid Waste Permit metals be screened to evaluate if interwell or intrawell statistical methods are appropriate at this time. Groundwater Stats Consulting's August 2019 evaluation of the data indicated intrawell prediction limits were appropriate for the Solid Waste Permit metals and a Trend Test was recommended to evaluate the naturally-occurring barium concentrations in well GWC-13RZ. In August 2019, GPC submitted a minor permit modification to EPD changing the statistical method for the Solid Waste Permit metals from interwell to intrawell. Groundwater Stats Consulting conducted the statistical analyses of the March 2020 groundwater data. The statistical analyses are provided in **Appendix B: Historical Groundwater Monitoring Results and Statistical Results**.

4.1 Statistical Method

Sanitas is a commercially available decision support software package, developed in 1991, that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the US EPA Unified Guidance (2009) document. The Sanitas groundwater statistical software was used to perform the statistical analyses of groundwater quality data obtained in March 2020.

The Intrawell method was used to analyze the 16 Solid Waste Permit metals data at the Site during the March 2020 event. The Appendix III parameters were analyzed using both interwell and intrawell prediction limits as described in the statistical analysis plans prepared for the CCR monitoring program and are summarized below.

Landfill Cells 1 & 2

Interwell method: boron, fluoride, chloride, and pH

Intrawell method: calcium, sulfate, and TDS, and 16 Solid Waste Permit metals

Landfill Cells 3 & 4

Interwell method: boron, fluoride, and calcium

Intrawell method: chloride, pH, sulfate, and TDS, and 16 Solid Waste Permit metals

Landfill Cells 9 & 10

Interwell method: boron, fluoride, and pH

Intrawell method: calcium, chloride, sulfate, and TDS, and 16 Solid Waste Permit metals

When using the interwell method, upgradient well data are pooled to establish a background statistical limit. Data from the March 2020 monitoring event were compared to the background statistical limit to evaluate whether concentrations exceed background statistical limits. The selected statistical method uses a 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier.

Groundwater quality data with significant natural spatial variation and no pre-existing exceedances of background statistical limits were evaluated using intrawell prediction limits. Using this method, historical data from within a given well is used to establish statistical limits for future comparisons at the same well. Background data from the parameter at the well (e.g. pH at GWA-36) was used to establish a background statistical limit for that parameter at that well; therefore, each parameter will have a different statistical limit at each well. Data from the March 2020 monitoring event were compared to the statistical limits to determine whether concentrations exceed background statistical limits. The intrawell statistical method uses a 1-of-3 or 1-of-2 verification resample plan. When an SSI or questionable result occurs, up to 2 additional samples using the 1-of-3 verification resample plan may be collected to verify the initial result or determine if the result was an outlier. A statistical exceedance in an upgradient well is not an SSI because the well is not located in a groundwater flow path as demonstrated by groundwater flow direction based on measured water level elevations.

If data from a sampling event initially exceed the prediction limit (PL), the resampling strategy may be used to verify the result. If the resamples exceed the PL, the initial exceedance is verified and a statistically significant increase (SSI) is identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance. If the initial finding is not verified by resampling, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

As described in **Appendix B** and in accordance with (US EPA, 2009), the data are analyzed using either parametric or non-parametric prediction limits based on the amount of data available, the distribution of the data, and the number of non-detects.

Some analytes may have a statistically-significant seasonal trend, based on testing with the non-parametric, seasonal Kruskal-Wallis test. If a statistically significant seasonal trend is found, then the data may be deseasonalized prior to statistical testing. The Sanitas software did not deseasonalize the March 2020 data.

Time series plots (**Appendix B**) display concentrations over time for wells and analytes and may be used to identify suspected increasing or decreasing trends. While trends may be visual, a quantification of the trend and its significance is needed. Background data are tested using the Sen's Slope/Mann Kendall or linear regression trend test to confirm suspected increasing or decreasing trends. The distribution of the data determines which trend test is used. In the absence of suspected

contamination, trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data will be evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected, as necessary. When the historical records of data are truncated for the reasons above, a summary report will be included in **Appendix B: Historical Groundwater Monitoring Results and Statistical Results** showing the date ranges used in construction of the statistical limits. Summary tables of the statistical analyses accompany the prediction limits in **Appendix B**.

The following table provides a summary of the statistical methodology used at Cells 1 & 2, 3 & 4, and 9 & 10 for the March 2020 event.

Table 9: Statistical Method Summary

Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis of Variance. Intrawell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method.
	Prediction Limits	When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit. Non-parametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Management of Non-Detects	When data contain less than 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 practical quantitation limit (PQL) as reported by the laboratory. When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

Statistical Methodology	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
	Verification Resample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing. Optional 1-of-3 or 1-of-2 with minimum of 8 samples per well for intrawell testing.
	Optional	<ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deemed verified.

4.2 Statistical Analyses Results

Based on the statistical results presented in **Appendix B**, the following summarizes statistical exceedances identified for Appendix III CCR constituents during the March 2020 event.

Table 10
Statistical Analysis Summary – CCR Constituents
March 2020

Appendix III Parameters	Wells with Concentrations Above Prediction Limits
Cells 1 & 2	
Calcium	GWC-5, GWC-6
Chloride	GWC-10R, GWC-13, GWC-13RZ, GWC-14Z
pH	GWC-8RR, GWC-9
Sulfate	GWC-14Z
Cells 3 & 4	
Calcium	GWC-16R, GWC-17R, GWC-21R, GWC-23R
Sulfate	GWC-21R
Cells 9 & 10	
Calcium	GWC-45R
Chloride	GWC-45R
pH	GWC-44, GWC-45, GWC-48, GWC-49R
Sulfate	GWC-45R
TDS	GWC-45, GWC-45R, GWC-48

TDS – Total Dissolved Solids

Based on the statistical results presented in **Appendix B**, the following summarizes statistical exceedances identified for the Solid Waste Permit metals during the March 2020 monitoring event.

Table 11
Statistical Analysis Summary – Solid Waste Permit Metals
March 2020

Solid Waste Permit Metals	Wells with Concentrations Above Prediction Limits
Cells 1 & 2	
Barium	GWC-13RZ statistically significant increasing trend
Cells 3 & 4	
Antimony	GWC-16R
Cells 9 & 10	
Barium	GWC-49R
Zinc	GWC-47, GWC-47R

4.2.1 Exceedances Addressed by Alternate Source Demonstrations

As presented in the Statistical Analysis Summaries above in this section, several of the constituents analyzed in March 2020 had concentrations above the calculated PLs. Most of these constituent concentrations above the PLs were addressed previously in the August 2017 and April 2018 ASDs. The August 2017 ASD addressed antimony and nickel in wells GWC-16R and GWC-21R. The April 2018 ASD addressed the statistical exceedances of calcium, chloride, pH, sulfate, TDS, antimony, barium, and zinc in specific wells. In a letter dated January 30, 2019, EPD approved the April 2018 ASD for antimony, barium, zinc, pH, calcium, chloride, sulfate, and TDS. In March 2020, the same constituents (calcium, chloride, pH, sulfate, TDS, antimony, barium, and zinc) that exceeded previously in other wells recently exceeded in different wells and are addressed in **Appendix D: Alternate Source Demonstration for March 2020 Semi-Annual Event**. The table below summarizes the exceedances and the ASD that addresses the exceedance.

Summary of March 2020 Statistical Exceedances Addressed by an ASD

Exceedance in Well	Constituent that Exceeded	Alternate Source Demonstration
GWC-16R, GWC-17R, GWC-21R, GWC-23R	Calcium	April 19, 2018 ASD
GWC-5, GWC-6 GWC-45R	Calcium	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-13, GWC-13RZ	Chloride	April 19, 2018 ASD
GWC-10R, GWC-14Z, GWC-45R	Chloride	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-8RR, GWC-44, GWC-45, GWC-48	pH	April 19, 2018 ASD

Exceedance in Well	Constituent that Exceeded	Alternate Source Demonstration
GWC-9, GWC-49R	pH	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-14Z, GWC-21R, GWC-45R	Sulfate	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-45, GWC-45R, GWC-48	TDS	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-16R	Antimony	August 30, 2017 and April 19, 2018 ASDs
GWC-13RZ	Barium	April 19, 2018 ASD
GWC-49R	Barium	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)
GWC-47	Zinc	April 19, 2018 ASD
GWC-47R,	Zinc	Alternate Source Demonstration for March 2020 Semi-Annual Event (Appendix D)

The Appendix III parameters (calcium, chloride, pH, sulfate, and TDS) with concentrations above prediction limits in March 2020 are addressed in either the April 2018 ASD or the ASD included in **Appendix D**. The solid waste permit metals (antimony, barium, and zinc) are also addressed in the April 2018 ASD. Barium and zinc are also addressed in **Appendix D**.

These concentrations above the PL are not thought to be the result of a release from the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 and are likely attributed to natural variability of groundwater chemistry underlying the Site that is not properly accommodated by the existing statistical methods due to geochemical differences between upgradient and downgradient wells, as described in the earlier ASD documents. The supporting evidence for natural variability as presented in the earlier ASD documents are summarized as follows.

- 1) The presence of naturally-occurring sulfide minerals containing these metals at the Site,
- 2) A lack of statistically significant increasing concentration trends of these metals and inorganic parameters over time, and
- 3) The lack of co-occurrence or correlation of metals with indicator parameters, and
- 4) The non-detectable or low concentrations of other indicator parameters, including boron and fluoride, strongly support the natural occurrence of target parameters showing a SSI.
- 5) The Landfill Cells 1 & 2, 3 & 4, and 9 & 10 are lined, and Cells 3 & 4 have a leachate collection system in accordance with Solid Waste Permit No. 008-018D (LI).

Pursuant to § 257.94(e) and § 391-3-4.14.23(c), GPC will continue detection monitoring at Landfill Cells 1 & 2, 3 & 4, and 9 & 10.

5.0 MONITORING PROGRAM STATUS

The Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 are in detection monitoring. In March 2020, statistical exceedances of Appendix III and the two State Solid Waste Permit constituents were identified. Those statistical exceedances are addressed in ASDs that showed the target constituent concentrations were not an indication of a release from the lined landfill cells but were due to naturally-occurring sources in the geological formation and natural variability of groundwater chemistry. Groundwater monitoring at Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 will continue in detection monitoring phase.

6.0 CONCLUSIONS & FUTURE ACTIONS

In accordance with § 391-3-4 for the 16 Solid Waste Permit metals and § 257.94(e) for the Appendix III parameters, data from the Site wells were compared to the appropriate standards in accordance with regulatory requirements for drinking water. At the request of Georgia EPD, the 16 Solid Waste Permit metals were statistically analyzed using intrawell methods. The Appendix III parameters were statistically analyzed per the statistical plans prepared for the CCR monitoring program.

Concentrations of the 16 Solid Waste Permit metals and Appendix III parameters were below the Georgia MCLs, with the exception of antimony in downgradient well GWC-16R at Cells 3 & 4. An August 2017 Alternate Source Demonstration showed antimony concentrations in well GWC-16R vary naturally in groundwater at the Site. In a letter dated January 30, 2019, EPD approved the April 2018 ASD for antimony. The majority of the metals and the Appendix III parameters were within their respective statistically calculated PLs for the March 2020 sampling event. Most of the concentrations above PLs observed in March 2020 were re-occurrences of statistical exceedances previously addressed in ASD reports (April 2018 or August 2017) or the ASD in **Appendix D**. These statistical exceedances are not thought to be the result of a release from the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 and are attributed to natural variability of groundwater chemistry underlying the Site. Those exceedances in the downgradient wells analyzed using the interwell method may likely be due to the statistical method not accommodating the geochemical differences between upgradient and downgradient locations.

Pursuant to § 257.94(e) and § 391-3-4.14.23(c), GPC will continue detection monitoring at the Site. The next scheduled groundwater monitoring event is scheduled for September 2020.

7.0 REFERENCES

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TABLES

**TABLE 1A
SUMMARY OF WELL CONSTRUCTION AND GROUNDWATER ELEVATIONS – CELLS 1 & 2**

Well	Top of Casing Elevation (ft above MSL)	Ground Surface Elevation (ft above MSL)	Screen Bottom Elevation (ft above MSL)	Screen Length (feet)	Depth to Water (ft below TOC) 2/28/2020	Groundwater Elevation (ft above MSL) 2/28/2020	Location	Screened Lithology
GWA-1	742.20	739.4	591.7	10	75.36	666.84	Upgradient	Overburden/Upper Fractured Bedrock
GWA-2	734.81	732.3	580.8	10	72.52	662.29	Upgradient	Overburden/Upper Fractured Bedrock
GWA-2R	735.78	733.0	627.9	10	73.16	662.62	Upgradient	Upper Fractured Bedrock
GWA-3	732.47	729.9	634.9	10	44.39	688.08	Upgradient	Overburden
GWA-4	743.47	741.0	671.5	10	Dry	Dry	Upgradient	Overburden
GWA-4R	743.84	741.4	648.4	10	81.44	662.40	Upgradient	Upper Fractured Bedrock
GWA-4RZ	742.85	740.1	623.1	10	80.73	662.12	Upgradient	Upper Fractured Bedrock
GWA-50	722.98	720.6	626.6	10	50.56	672.42	Upgradient	Overburden
GWA-50R	721.30	719.0	580.8	10	65.08	656.22	Upgradient	Upper Fractured Bedrock
GWC-10	688.57	685.8	617.6	10	24.80	663.77	Downgradient	Overburden
GWC-10R	688.61	686.6	591.1	10	24.81	663.80	Downgradient	Upper Fractured Bedrock
GWC-11	678.43	676.0	634.2	10	15.94	662.49	Downgradient	Overburden
GWC-11R	678.32	675.9	598.0	10	15.87	662.45	Downgradient	Upper Fractured Bedrock
GWC-12	677.77	675.2	627.1	10	15.51	662.26	Downgradient	Overburden
GWC-13	687.13	684.9	604.4	10	24.74	662.39	Downgradient	Overburden
GWC-13R	686.53	683.9	584.9	10	24.25	662.28	Downgradient	Upper Fractured Bedrock
GWC-13RZ	684.61	681.8	579.8	10	57.36	627.25	Downgradient	Upper Fractured Bedrock
GWC-14	686.30	683.6	605.8	10	24.74	661.56	Downgradient	Overburden
GWC-14Z	687.33	684.4	611.4	10	24.30	663.03	Downgradient	Overburden
GWC-15	695.51	693.3	626.3	10	32.12	663.39	Downgradient	Overburden
GWC-15R	696.44	693.8	601.6	10	33.24	663.20	Downgradient	Upper Fractured Bedrock
GWC-15Z	695.89	693.1	621.1	10	32.95	662.94	Downgradient	Overburden
GWC-5	738.17	735.8	624.7	10	67.54	670.63	Downgradient	Overburden
GWC-6	729.02	726.7	619.1	10	61.05	667.97	Downgradient	Overburden
GWC-6RZ	732.10	729.3	624.3	10	66.00	666.10	Downgradient	Upper Fractured Bedrock
GWC-7Z	713.12	710.1	596.4	10	44.69	668.43	Downgradient	Overburden
GWC-8RR	702.09	700.4	590.3	10	35.54	666.55	Downgradient	Upper Fractured Bedrock
GWC-8Z	702.32	699.3	626.3	10	35.42	666.90	Downgradient	Overburden
GWC-9	695.50	692.8	622.7	10	32.46	663.04	Downgradient	Overburden

ft = feet

MSL = Mean Sea Level

TOC = Top of Casing

TABLE 1B
SUMMARY OF WELL CONSTRUCTION AND GROUNDWATER ELEVATIONS – CELLS 3 & 4

Well	Top of Casing Elevation (ft above MSL)	Ground Surface Elevation (ft above MSL)	Screen Bottom Elevation (ft above MSL)	Screen Length (feet)	Depth to Water (ft below TOC) 2/28/2020	Groundwater Elevation (ft above MSL) 2/28/2020	Location	Screened Lithology
GWA-36	684.91	682.3	606.6	10	24.09	660.82	Upgradient	Overburden
GWA-36R	684.53	681.8	596.1	10	23.73	660.80	Upgradient	Upper Fractured Bedrock
GWA-37	703.66	701.0	596.8	10	44.10	659.56	Upgradient	Overburden
GWA-38	716.43	713.8	649.1	10	49.46	666.97	Upgradient	Overburden
GWA-51RZ	708.98	706.3	615.5	10	48.95	660.03	Upgradient	Upper Fractured Bedrock
GWA-52	710.12	707.1	626.5	10	50.03	660.09	Upgradient	Overburden
GWA-53	711.38	708.3	590.8	10	51.32	660.06	Upgradient	Overburden
GWA-53R	711.93	708.8	543.7	10	51.97	659.96	Upgradient	Upper Fractured Bedrock
GWA-54	704.63	701.7	628.8	10	44.45	660.18	Upgradient	Overburden
GWA-55	697.01	694.2	632.1	10	36.99	660.02	Upgradient	Overburden
GWA-55R	696.84	694.0	591.5	10	36.84	660.00	Upgradient	Upper Fractured Bedrock
GWA-56	692.45	689.5	606.9	10	32.48	659.97	Upgradient	Overburden
GWC-16R	730.69	728.1	633.4	10	74.70	655.99	Downgradient	Upper Fractured Bedrock
GWC-17R	733.73	730.7	641.5	10	76.35	657.38	Downgradient	Upper Fractured Bedrock
GWC-18	721.93	719.1	642.4	10	66.74	655.19	Downgradient	Overburden
GWC-18R	721.78	719.1	581.9	10	66.47	655.31	Downgradient	Upper Fractured Bedrock
GWC-19R	726.58	724.0	580.3	10	70.63	655.95	Downgradient	Upper Fractured Bedrock
GWC-20R	721.09	718.4	634.4	10	64.22	656.87	Downgradient	Upper Fractured Bedrock
GWC-21R	723.46	720.9	631.7	10	65.30	658.16	Downgradient	Upper Fractured Bedrock
GWC-22R	715.85	713.3	596.6	10	57.46	658.39	Downgradient	Upper Fractured Bedrock
GWC-23R	691.41	688.9	642.2	10	32.93	658.48	Downgradient	Upper Fractured Bedrock
GWC-24R	676.92	674.3	637.6	10	18.48	658.44	Downgradient	Upper Fractured Bedrock
GWC-25R	676.75	674.2	577.5	10	17.62	659.13	Downgradient	Upper Fractured Bedrock

ft = feet

MSL = Mean Sea Level

TOC = Top of Casing

**TABLE 1C
SUMMARY OF WELL CONSTRUCTION AND GROUNDWATER ELEVATION – CELLS 9 & 10**

Well	Top of Casing Elevation (ft above MSL)	Ground Surface Elevation (ft above MSL)	Screen Bottom Elevation (ft above MSL)	Screen Length (feet)	Depth to Water (ft below TOC) 2/28/2020	Groundwater Elevation (ft above MSL) 2/28/2020	Location	Screened Lithology
GWA-39RZ	732.58	729.8	592.5	10	47.97	684.61	Upgradient	Upper Fractured Bedrock
GWA-39Z	735.10	732.1	617.6	10	51.41	683.69	Upgradient	Overburden
GWA-40	731.73	728.6	576.9	10	57.01	674.72	Upgradient	Overburden
GWA-41	742.37	739.1	639.9	10	60.82	681.55	Upgradient	Overburden
GWA-41R	743.14	739.9	613.3	10	61.51	681.63	Upgradient	Upper Fractured Bedrock
GWA-42	738.02	734.8	650.1	10	65.24	672.78	Upgradient	Overburden
GWA-43	710.97	707.7	618.4	10	41.61	669.36	Upgradient	Overburden
GWA-43R	711.21	707.9	598.4	10	42.00	669.21	Upgradient	Upper Fractured Bedrock
GWC-44	712.95	709.9	623.3	10	40.51	672.44	Downgradient	Overburden
GWC-45	701.56	698.9	634.0	10	33.02	668.54	Downgradient	Overburden
GWC-45R	702.04	699.3	573.9	10	42.46	659.58	Downgradient	Upper Fractured Bedrock
GWC-46R	690.51	687.9	631.4	10	29.86	660.65	Downgradient	Upper Fractured Bedrock
GWC-47	690.84	687.4	623.5	10	31.23	659.61	Downgradient	Overburden
GWC-47R	691.13	687.7	606.7	10	31.27	659.86	Downgradient	Upper Fractured Bedrock
GWC-48	688.31	686.0	628.8	10	27.84	660.47	Downgradient	Overburden
GWC-49R	709.50	706.0	575.1	10	47.10	662.40	Downgradient	Upper Fractured Bedrock
GWC-49Z	709.12	706.2	614.7	10	46.40	662.72	Downgradient	Overburden

ft = feet

MSL = Mean Sea Level

TOC = Top of Casing

**TABLE 2
GROUNDWATER FLOW VELOCITY CALCULATIONS - MARCH 2020**

Flow Paths		Groundwater Elevations in Well Pairs (h ₁ , h ₂) (feet)		Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n _e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
Landfill Cells 1 & 2	Overburden GWC-5 to GWC-9	670.63	663.04	7.59	1302	0.006	0.072	0.01	0.04	15.3
	Overburden GWC-15 to GWC-14	663.39	661.56	1.83	326	0.006	0.072	0.01	0.04	14.8
	Bedrock GWC-8RR to GWC-10R	666.55	663.80	2.75	600	0.005	0.36	0.01	0.17	60.2
	Bedrock GWC-10R to GWC-13R	663.80	662.28	1.52	900	0.002	0.36	0.01	0.06	22.2
Landfill Cells 3 & 4	Overburden GWA-52 to GWC-18	660.09	655.19	4.90	1275	0.004	0.072	0.01	0.03	10.1
	Overburden GWA-36 to GWA-37	660.82	659.56	1.26	350	0.004	0.072	0.01	0.03	9.5
	Bedrock GWA-53R to GWC-18R	659.96	655.31	4.65	1265	0.004	0.36	0.01	0.13	48.3
	Bedrock GWA-36R to GWC-16R	660.80	655.99	4.81	1142	0.004	0.36	0.01	0.15	55.3
	Bedrock GWC-25R to GWC-23R	659.13	658.48	0.65	660	0.001	0.36	0.01	0.04	12.9
Landfill Cells 9 & 10	Overburden GWA-40 to GWC-45	674.72	668.54	6.18	1500	0.004	0.072	0.01	0.03	10.8
	Overburden GWC-49Z to GWC-48	662.72	660.47	2.25	250	0.009	0.072	0.01	0.06	23.7
	Bedrock GWA-41R to GWC-45R	681.63	659.58	22.05	1350	0.016	0.36	0.01	0.59	214.6
	Bedrock GWC-49R to GWC-47R	662.40	659.86	2.54	547	0.005	0.36	0.01	0.17	61.0

TABLE 3
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWA-1	GWA-2	GWA-2R	GWA-3	GWA-4RZ	GWA-50
		3/11/2020	3/11/2020	3/11/2020	3/11/2020	3/12/2020	3/11/2020
APPENDIX III	Boron	< 0.0049	0.0068 (J)	0.017 (J)	0.0071 (J)	0.014 (J)	0.0063 (J)
	Calcium	31.8	66.6	46.8	1.0	54.2	1.6
	Chloride	1.4	2.0	0.60 (J)	1.4	2.3	0.91 (J)
	Fluoride	0.052 (J)	< 0.050	0.052 (J)	< 0.050	0.18 (J)	< 0.050
	pH	7.5	6.6	7.1	5.3	7.6	5.6
	Sulfate	0.94 (J)	131	34.3	< 0.50	20.8	< 0.50
	TDS	172	309	170	24.0	247	17.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 3
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWA-50R	GWC-5	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR
		3/11/2020	3/16/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020
APPENDIX III	Boron	0.0070 (J)	< 0.0049	0.0061 (J)	0.0052 (J)	0.0057 (J)	< 0.0049
	Calcium	1.2	12.1	16.2	9.3	26.4	21.8
	Chloride	0.73 (J)	0.67 (J)	1.3	1.3	0.72 (J)	0.93 (J)
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	5.4	6.9	7.4	6.9	7.5	8.0
	Sulfate	0.85 (J)	1.1	2.1	1.4	1.7	1.8
	TDS	24.0	20.0	42.0	22.0	86.0	84.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 3
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWC-8Z	GWC-9	GWC-10	GWC-10R	GWC-11	GWC-11R
		3/16/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020
APPENDIX III	Boron	< 0.0049	0.0058 (J)	< 0.0049	0.0050 (J)	< 0.0049	0.0058 (J)
	Calcium	19.4	1.8	18.6	43.2	8.0	32.5
	Chloride	1.3	1.9	2.3	3.0	1.0	1.5
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	7.0	4.8	6.4	7.5	6.3	7.6
	Sulfate	0.66 (J)	1.1	1.3	0.99 (J)	1.8	1.5
	TDS	76.0	16.0	63.0	81.0	96.0	125

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 3
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWC-12	GWC-13	GWC-13RZ	GWC-14Z	GWC-15R	GWC-15Z
		3/12/2020	3/13/2020	3/17/2020	3/13/2020	3/13/2020	3/13/2020
APPENDIX III	Boron	< 0.0049	0.014 (J)	0.017 (J)	0.0081 (J)	0.0064 (J)	0.0054 (J)
	Calcium	8.1	33.0	44.9	17.0	41.0	24.2
	Chloride	0.84 (J)	3.3	7.7	4.2	1.6	0.70 (J)
	Fluoride	< 0.050	< 0.050	0.11 (J)	< 0.050	< 0.050	< 0.050
	pH	6.2	7.3	7.6	6.2	7.6	7.7
	Sulfate	< 0.50	16.9	72.1	11.1	8.8	1.1
	TDS	64.0	143	256	59.0	169	76.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 4
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWA-36	GWA-36R	GWA-37	GWA-38	GWA-51RZ	GWA-52
		3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/3/2020	3/2/2020
APPENDIX III	Boron	0.010 (J)	0.014 (J)	0.0052 (J)	< 0.0049	0.0096 (J)	0.0070 (J)
	Calcium	12.5	35.2	0.77 (J)	2.5	47.6	33.7
	Chloride	2.1	2.4	0.78 (J)	2.5	2.6	4.9
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	6.6	7.2	5.5	5.5	7.7	7.4
	Sulfate	< 0.50	7.9	< 0.50	0.50 (J)	21.5	16.3
	TDS	65.0	170	< 10.0	32.0	211	142

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 4
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWA-53	GWA-53R	GWA-54	GWA-55	GWA-55R	GWA-56
		3/4/2020	3/4/2020	3/3/2020	3/3/2020	3/4/2020	3/4/2020
APPENDIX III	Boron	0.0064 (J)	< 0.0049	0.0084 (J)	0.010 (J)	0.0063 (J)	0.022 (J)
	Calcium	31.2	31.6	27.1	40.1	39.9	38.0
	Chloride	2.2	2.3	0.77 (J)	2.7	2.6	4.5
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.086 (J)
	pH	7.6	7.7	7.6	7.0	7.3	8.0
	Sulfate	1.5	1.7	1.7	29.0	23.4	69.4
	TDS	146	157	91.0	210	207	325

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 4
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
		3/4/2020	3/5/2020	3/6/2020	3/5/2020	3/4/2020	3/5/2020
APPENDIX III	Boron	0.027 (J)	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	Calcium	60.6	71.4	23.5	32.0	34.0	38.9
	Chloride	0.79 (J)	4.5	2.2	2.2	2.3	1.5
	Fluoride	0.29 (J)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	7.4	7.3	7.0	7.8	7.7	7.6
	Sulfate	8.4	7.7	2.0	1.9	3.6	1.1
	TDS	326	307	109	143	157	171

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 4
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R	Spring
		3/3/2020	3/3/2020	3/5/2020	3/3/2020	3/3/2020	3/6/2020
APPENDIX III	Boron	0.0096 (J)	0.0066 (J)	< 0.0049	< 0.0049	< 0.0049	0.0082 (J)
	Calcium	70.2	37.2	63.7	33.3	37.6	14.0
	Chloride	3.9	2.5	1.3	2.1	2.4	2.1
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	7.1	7.2	7.2	7.6	7.6	7.2
	Sulfate	11.3	1.7	10.8	2.0	1.6	3.4
	TDS	292	181	265	146	183	75.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 9 & 10

Substance		Well ID					
		GWA-39RZ	GWA-39Z	GWA-40	GWA-41	GWA-41R	GWA-42
		3/9/2020	3/9/2020	3/9/2020	3/6/2020	3/9/2020	3/6/2020
APPENDIX III	Boron	0.0065 (J)	< 0.0049	0.0074 (J)	0.013 (J)	0.021 (J)	0.0068 (J)
	Calcium	35.6	3.2	29.4	29.2	25.5	38.0
	Chloride	1.5	1.2	1.5	1.3	1.3	2.7
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	7.7	5.9	7.5	6.8	6.7	7.4
	Sulfate	5.8	0.84 (J)	1.2	10.0	8.5	1.7
	TDS	173	58.0	131	137	249	143

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 9 & 10

Substance		Well ID					
		GWA-43	GWA-43R	GWC-44	GWC-45	GWC-45R	GWC-46R
		3/9/2020	3/9/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020
APPENDIX III	Boron	< 0.0049	0.017 (J)	0.019 (J)	< 0.0049	0.0090 (J)	< 0.0049
	Calcium	2.6	31.7	16.9	0.89 (J)	43.5	51.6
	Chloride	1.2	2.2	5.9	0.80 (J)	4.4	1.2
	Fluoride	< 0.050	< 0.050	0.13 (J)	< 0.050	< 0.050	< 0.050
	pH	5.5	7.7	4.4	5.0	7.1	7.4
	Sulfate	< 0.50	3.9	48.5	0.61 (J)	5.2	5.5
	TDS	51.0	174	127	60.0	245	273

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III (March 2020)
Landfill Cells 9 & 10

Substance		Well ID				
		GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
		3/9/2020	3/9/2020	3/9/2020	3/11/2020	3/9/2020
APPENDIX III	Boron	< 0.0049	0.0051 (J)	< 0.0049	< 0.0049	0.0055 (J)
	Calcium	22.3	35.0	4.5	27.1	0.87 (J)
	Chloride	2.3	2.3	3.4	1.4	1.0
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	pH	7.2	7.5	5.2	8.2	5.6
	Sulfate	4.3	10.4	1.6	3.3	1.5
	TDS	147	44.0	100	125	51.0

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring

TABLE 6
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWA-1	GWA-2	GWA-2R	GWA-3	GWA-4RZ	GWA-50
		3/11/2020	3/11/2020	3/11/2020	3/11/2020	3/12/2020	3/11/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00079 (J)	< 0.00027	0.0020 (J)	0.0045	0.0017 (J)	0.00050 (J)
	Arsenic	0.00088 (J)	< 0.00035	0.00044 (J)	< 0.00035	0.0033 (J)	< 0.00035
	Barium	0.016	0.035	0.027	0.0041 (J)	0.053	0.0077 (J)
	Beryllium	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.0012 (J)	0.0025 (J)	0.0042 (J)	0.00095 (J)	< 0.00039	0.0011 (J)
	Cobalt	0.00037 (J)	< 0.00030	< 0.00030	0.00041 (J)	0.013	< 0.00030
	Copper	< 0.00019	0.00020 (J)	0.0011 (J)	0.027	0.00020 (J)	0.0026 (J)
	Lead	< 0.000046	< 0.000046	0.000058 (J)	< 0.000046	< 0.000046	< 0.000046
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00068 (J)	0.0014 (J)	0.0020 (J)	0.012	0.00034 (J)	0.00084 (J)
	Selenium	< 0.0013	0.0021 (J)	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00039 (J)
	Thallium	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052
Vanadium	< 0.00071	< 0.00071	0.00084 (J)	< 0.00071	< 0.00071	< 0.00071	
Zinc	0.0035 (J)	0.0028 (J)	0.0038 (J)	0.031	0.0027 (J)	0.0025 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. Bolded and shaded cells indicate concentration above maximum contaminant level.

TABLE 6
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWA-50R	GWC-5	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR
		3/11/2020	3/16/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	< 0.00027	0.00031 (J)	0.00052 (J)	0.0011 (J)	0.00066 (J)	0.00043 (J)
	Arsenic	< 0.00035	< 0.00035	0.00055 (J)	< 0.00035	0.00044 (J)	0.00039 (J)
	Barium	0.0095 (J)	0.024	0.0075 (J)	0.0072 (J)	0.022	0.014
	Beryllium	< 0.000074	0.00048 (J)	< 0.000074	0.000093 (J)	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.00039	0.00078 (J)	0.0034 (J)	0.0028 (J)	0.0014 (J)	0.0031 (J)
	Cobalt	< 0.00030	0.00031 (J)	< 0.00030	< 0.00030	0.00031 (J)	< 0.00030
	Copper	0.0035 (J)	0.012 (J)	< 0.00019	0.00028 (J)	0.00021 (J)	< 0.00019
	Lead	< 0.000046	0.000051 (J)	0.00010 (J)	0.000070 (J)	0.000082 (J)	0.000056 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.0010 (J)	0.015	< 0.00031	< 0.00031	0.00078 (J)	< 0.00031
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	0.0013 (J)	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	0.000059 (J)	< 0.000052	< 0.000052	< 0.000052	0.00022 (J)	< 0.000052
Vanadium	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	
Zinc	0.0033 (J)	0.047	0.0042 (J)	0.0032 (J)	0.0031 (J)	0.0020 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. Bolded and shaded cells indicate concentration above maximum contaminant level.

TABLE 6
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWC-8Z	GWC-9	GWC-10	GWC-10R	GWC-11	GWC-11R
		3/16/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020	3/12/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	< 0.00027	< 0.00027	< 0.00027	< 0.00027	0.0013 (J)	0.0010 (J)
	Arsenic	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	0.0012 (J)
	Barium	0.027	0.044	0.026	0.028	0.0086 (J)	0.021
	Beryllium	< 0.000074	0.00022 (J)	0.00017 (J)	< 0.000074	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.0015 (J)	0.00045 (J)	0.00047 (J)	< 0.00039	0.00084 (J)	0.0042 (J)
	Cobalt	< 0.00030	0.00044 (J)	0.0017 (J)	< 0.00030	< 0.00030	< 0.00030
	Copper	0.00024 (J)	0.00031 (J)	< 0.00019	< 0.00019	0.00023 (J)	0.00032 (J)
	Lead	0.00016 (J)	0.00016 (J)	< 0.000046	< 0.000046	0.000052 (J)	0.000046 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00060 (J)	0.0011 (J)	0.0015 (J)	0.00043 (J)	< 0.00031	< 0.00031
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	< 0.000052	0.000054 (J)	< 0.000052	< 0.000052
Vanadium	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	
Zinc	0.0073 (J)	0.0045 (J)	0.0024 (J)	0.0027 (J)	0.0038 (J)	0.0053 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. Bolded and shaded cells indicate concentration above maximum contaminant level.

TABLE 6
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 1 & 2

Substance		Well ID					
		GWC-12	GWC-13	GWC-13RZ	GWC-14Z	GWC-15R	GWC-15Z
		3/12/2020	3/13/2020	3/17/2020	3/13/2020	3/13/2020	3/13/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	< 0.00027	0.0023 (J)	0.00090 (J)	0.00053 (J)	0.00056 (J)	< 0.00027
	Arsenic	0.0053	0.00096 (J)	0.00067 (J)	< 0.00035	0.00047 (J)	0.00052 (J)
	Barium	0.023	0.023	0.097	0.017	0.020	0.014
	Beryllium	< 0.000074	0.000080 (J)	< 0.000074	0.00016 (J)	< 0.000074	< 0.000074
	Cadmium	0.00089 (J)	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.00039	0.0054 (J)	0.0020 (J)	0.00093 (J)	0.0011 (J)	0.0012 (J)
	Cobalt	0.0031 (J)	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030
	Copper	< 0.00019	0.00033 (J)	0.00045 (J)	< 0.00019	0.00029 (J)	0.00020 (J)
	Lead	< 0.000046	0.00013 (J)	< 0.000046	< 0.000046	0.00037 (J)	0.000048 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.0022 (J)	< 0.00031	0.00082 (J)	0.00078 (J)	0.00072 (J)	< 0.00031
	Selenium	< 0.0013	0.0019 (J)	< 0.0013	0.0016 (J)	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052
Vanadium	< 0.00071	0.0020 (J)	< 0.00071	< 0.00071	0.00077 (J)	0.00095 (J)	
Zinc	0.015	0.0043 (J)	0.0057 (J)	0.0028 (J)	0.0057 (J)	0.0026 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. Bolded and shaded cells indicate concentration above maximum contaminant level.

TABLE 7
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWA-36	GWA-36R	GWA-37	GWA-38	GWA-51RZ	GWA-52
		3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/3/2020	3/2/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	< 0.00027	< 0.00027	0.0018 (J)	< 0.00027	< 0.00027	< 0.00027
	Arsenic	< 0.00035	< 0.00035	0.00053 (J)	0.00059 (J)	0.00073 (J)	< 0.00035
	Barium	0.019	0.024	0.0050 (J)	0.012	0.017	0.023
	Beryllium	0.00024 (J)	0.00015 (J)	< 0.000074	< 0.000074	< 0.000074	< 0.000074
	Cadmium	0.0012 (J)	0.00018 (J)	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.00039	0.00047 (J)	< 0.00039	0.0014 (J)	< 0.00039	0.0011 (J)
	Cobalt	< 0.00030	< 0.00030	< 0.00030	0.0011 (J)	< 0.00030	< 0.00030
	Copper	< 0.00019	0.00043 (J)	0.0068 (J)	0.00019 (J)	0.00041 (J)	0.00024 (J)
	Lead	0.000052 (J)	0.00031 (J)	< 0.000046	< 0.000046	0.000051 (J)	< 0.000046
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00071 (J)	0.00051 (J)	0.0079 (J)	0.0010 (J)	< 0.00031	< 0.00031
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0053 (J)	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	< 0.000052	< 0.000052	0.00012 (J)	< 0.000052
Vanadium	< 0.00071	< 0.00071	0.00074 (J)	0.0014 (J)	0.00091 (J)	< 0.00071	
Zinc	0.54	0.056	0.0063 (J)	0.0032 (J)	0.0035 (J)	0.0024 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. Bolded and shaded cells indicate concentration above maximum contaminant level.

TABLE 7
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWA-53	GWA-53R	GWA-54	GWA-55	GWA-55R	GWA-56
		3/4/2020	3/4/2020	3/3/2020	3/3/2020	3/4/2020	3/4/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.0019 (J)	0.00053 (J)	0.0011 (J)	< 0.00027	< 0.00027	< 0.00027
	Arsenic	0.00044 (J)	0.00043 (J)	< 0.00035	< 0.00035	< 0.00035	0.00040 (J)
	Barium	0.013	0.015	0.031	0.023	0.029	0.039
	Beryllium	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.00076 (J)	0.0012 (J)	0.0017 (J)	0.00085 (J)	0.00079 (J)	< 0.00039
	Cobalt	< 0.00030	< 0.00030	< 0.00030	0.0048 (J)	< 0.00030	< 0.00030
	Copper	0.00053 (J)	< 0.00019	0.00025 (J)	< 0.00019	< 0.00019	0.00030 (J)
	Lead	0.00016 (J)	0.000066 (J)	0.000048 (J)	0.000048 (J)	< 0.000046	0.000050 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	< 0.00031	< 0.00031	< 0.00031	0.00061 (J)	< 0.00031	< 0.00031
	Selenium	< 0.0013	< 0.0013	< 0.0013	0.0025 (J)	0.0018 (J)	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	0.000079 (J)	0.000065 (J)	< 0.000052	< 0.000052
Vanadium	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	
Zinc	0.0040 (J)	0.0027 (J)	0.0024 (J)	0.0050 (J)	0.0028 (J)	0.0029 (J)	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the analytical method detection limit shown.
3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
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TABLE 7
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
		3/4/2020	3/5/2020	3/6/2020	3/5/2020	3/4/2020	3/5/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.019	< 0.00027	0.00049 (J)	0.00068 (J)	< 0.00027	< 0.00027
	Arsenic	0.00088 (J)	< 0.00035	< 0.00035	0.00042 (J)	0.00072 (J)	< 0.00035
	Barium	0.045	0.018	0.015	0.015	0.017	0.028
	Beryllium	< 0.000074	< 0.000074	< 0.000074	0.00013 (J)	0.00013 (J)	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.0014 (J)	0.00063 (J)	0.0019 (J)	0.00070 (J)	0.0010 (J)	0.00075 (J)
	Cobalt	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030
	Copper	0.0024 (J)	0.00023 (J)	0.00023 (J)	< 0.00019	0.00036 (J)	< 0.00019
	Lead	< 0.000046	< 0.000046	0.00013 (J)	0.00032 (J)	0.00030 (J)	< 0.000046
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.0032 (J)	< 0.00031	0.00050 (J)	< 0.00031	0.00071 (J)	< 0.00031
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	0.00014 (J)	< 0.000052	0.000076 (J)	< 0.000052	< 0.000052	< 0.000052
Vanadium	0.0023 (J)	< 0.00071	< 0.00071	< 0.00071	0.00096 (J)	< 0.00071	
Zinc	0.015	0.0035 (J)	0.0045 (J)	0.0024 (J)	0.0072 (J)	0.0023 (J)	

Notes:

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3. (J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.
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TABLE 7
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 3 & 4

Substance		Well ID					
		GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R	Spring
		3/3/2020	3/3/2020	3/5/2020	3/3/2020	3/3/2020	3/6/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.0019 (J)	< 0.00027	< 0.00027	< 0.00027	< 0.00027	< 0.00027
	Arsenic	0.0015 (J)	0.0014 (J)	< 0.00035	< 0.00035	< 0.00035	0.00041 (J)
	Barium	0.022	0.044	0.022	0.020	0.015	0.039
	Beryllium	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.00058 (J)	0.00057 (J)	0.00086 (J)	0.00052 (J)	0.00078 (J)	0.0033 (J)
	Cobalt	< 0.00030	0.00078 (J)	< 0.00030	< 0.00030	< 0.00030	0.00051 (J)
	Copper	0.00049 (J)	0.00022 (J)	0.00030 (J)	0.00097 (J)	0.00027 (J)	0.0015 (J)
	Lead	< 0.000046	0.000059 (J)	0.000052 (J)	0.000057 (J)	0.000059 (J)	0.00071 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00099 (J)	0.0010 (J)	0.00075 (J)	< 0.00031	< 0.00031	0.0014 (J)
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	0.000071 (J)	0.000072 (J)	0.00018 (J)	< 0.000052	< 0.000052	< 0.000052
Vanadium	0.00085 (J)	< 0.00071	0.00071 (J)	0.0011 (J)	< 0.00071	0.0032 (J)	
Zinc	0.0044 (J)	0.0029 (J)	0.0084 (J)	0.0033 (J)	0.0027 (J)	0.0064 (J)	

Notes:

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Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
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TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 9 & 10

Substance		Well ID					
		GWA-39RZ	GWA-39Z	GWA-40	GWA-41	GWA-41R	GWA-42
		3/9/2020	3/9/2020	3/9/2020	3/6/2020	3/9/2020	3/6/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.0013 (J)	0.0011 (J)	< 0.00027	< 0.00027	0.0037	< 0.00027
	Arsenic	0.00083 (J)	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035
	Barium	0.017	0.0072 (J)	0.0088 (J)	0.022	0.031	0.0066 (J)
	Beryllium	< 0.000074	< 0.000074	< 0.000074	< 0.000074	< 0.000074	0.00017 (J)
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00014 (J)
	Chromium	0.0016 (J)	0.069	0.00090 (J)	0.015	0.00040 (J)	0.00045 (J)
	Cobalt	< 0.00030	0.00075 (J)	< 0.00030	< 0.00030	< 0.00030	0.00039 (J)
	Copper	0.011 (J)	0.00070 (J)	< 0.00019	0.00093 (J)	0.0014 (J)	0.00019 (J)
	Lead	0.00027 (J)	0.000055 (J)	0.000095 (J)	0.000091 (J)	0.000049 (J)	0.00011 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00083 (J)	0.040	< 0.00031	0.0089 (J)	0.00036 (J)	0.0015 (J)
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	0.000078 (J)	< 0.000052	0.000061 (J)	0.000086 (J)
	Vanadium	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071	< 0.00071
Zinc	0.0090 (J)	0.0035 (J)	0.0020 (J)	0.0027 (J)	0.0024 (J)	0.012	

Notes:

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TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 9 & 10

Substance		Well ID					
		GWA-43	GWA-43R	GWC-44	GWC-45	GWC-45R	GWC-46R
		3/9/2020	3/9/2020	3/10/2020	3/10/2020	3/10/2020	3/10/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00062 (J)	0.00037 (J)	< 0.00027	0.00087 (J)	< 0.00027	< 0.00027
	Arsenic	< 0.00035	< 0.00035	0.0013 (J)	< 0.00035	< 0.00035	< 0.00035
	Barium	0.012	0.0069 (J)	0.059	0.0061 (J)	0.024	0.013
	Beryllium	< 0.000074	< 0.000074	0.000074 (J)	< 0.000074	< 0.000074	< 0.000074
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.0033 (J)	0.0014 (J)	0.00074 (J)	0.00070 (J)	0.00092 (J)	0.0035 (J)
	Cobalt	0.00039 (J)	< 0.00030	0.0021 (J)	0.0012 (J)	< 0.00030	< 0.00030
	Copper	0.00035 (J)	0.00035 (J)	0.00067 (J)	0.00031 (J)	< 0.00019	< 0.00019
	Lead	0.000091 (J)	0.000096 (J)	0.00066 (J)	0.00014 (J)	< 0.000046	< 0.000046
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	0.00082 (J)	< 0.00031	0.00086 (J)	0.0012 (J)	< 0.00031	< 0.00031
	Selenium	< 0.0013	< 0.0013	0.0063 (J)	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052	< 0.000052
Vanadium	< 0.00071	0.00074 (J)	< 0.00071	< 0.00071	< 0.00071	< 0.00071	
Zinc	0.0020 (J)	0.0022 (J)	0.0049 (J)	0.0031 (J)	0.0035 (J)	0.0029 (J)	

Notes:

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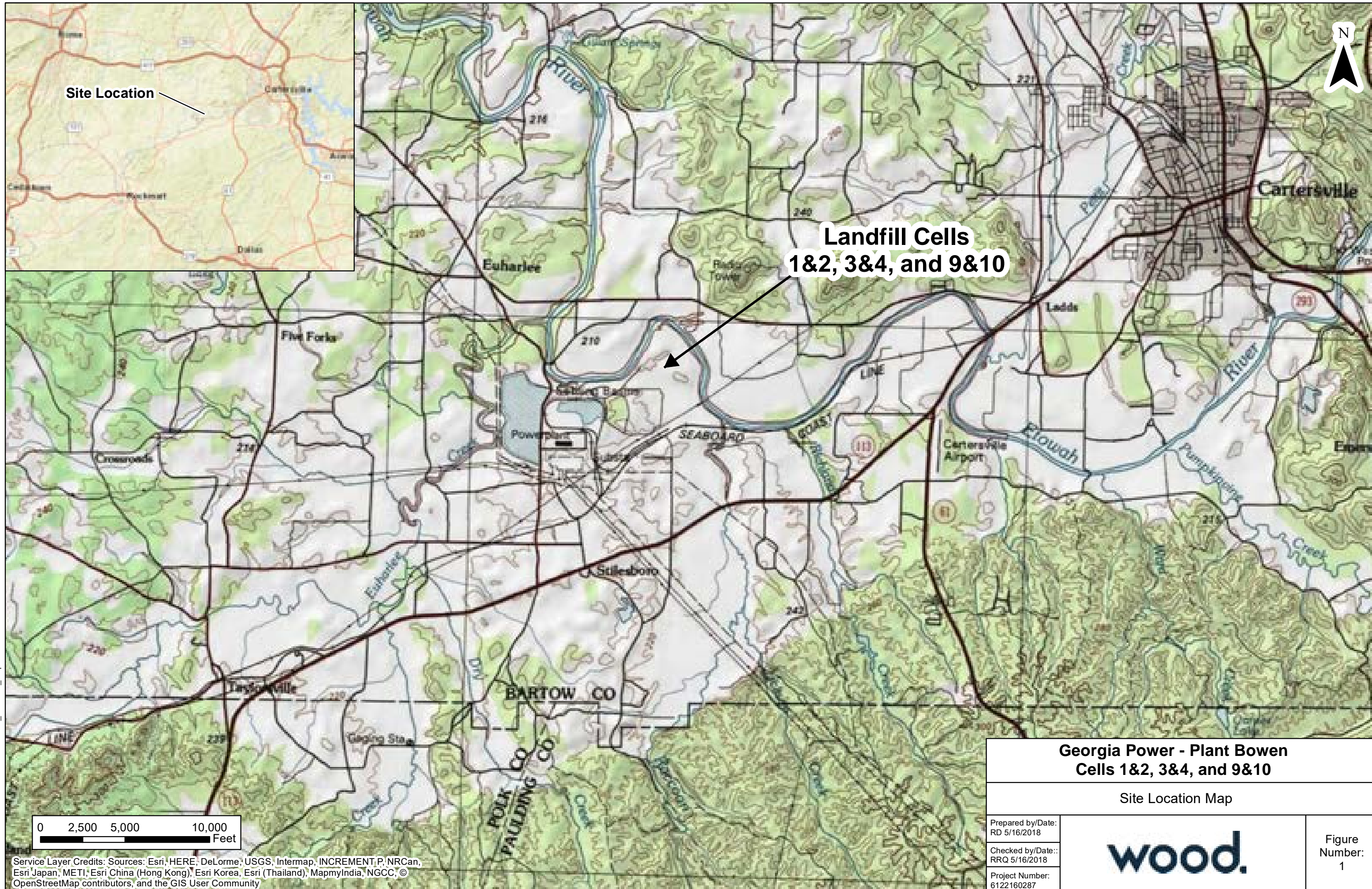
TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals (March 2020)
Landfill Cells 9 & 10

Substance		Well ID				
		GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
		3/9/2020	3/9/2020	3/9/2020	3/11/2020	3/9/2020
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00032 (J)	0.00056 (J)	< 0.00027	0.0012 (J)	0.0018 (J)
	Arsenic	< 0.00035	0.00051 (J)	< 0.00035	0.00041 (J)	< 0.00035
	Barium	0.0089 (J)	0.0082 (J)	0.029	0.026	0.0045 (J)
	Beryllium	< 0.000074	< 0.000074	0.00028 (J)	< 0.000074	< 0.000074
	Cadmium	0.00015 (J)	< 0.00011	0.00016 (J)	< 0.00011	< 0.00011
	Chromium	0.0012 (J)	0.0023 (J)	0.0023 (J)	0.0012 (J)	0.00096 (J)
	Cobalt	< 0.00030	< 0.00030	0.0016 (J)	< 0.00030	0.0028 (J)
	Copper	< 0.00019	0.00032 (J)	0.00035 (J)	< 0.00019	0.00035 (J)
	Lead	0.000058 (J)	0.000080 (J)	< 0.000046	< 0.000046	0.00017 (J)
	Mercury	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014
	Nickel	< 0.00031	< 0.00031	0.0039 (J)	0.00040 (J)	0.0030 (J)
	Selenium	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
	Silver	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Thallium	< 0.000052	0.00021 (J)	0.000090 (J)	< 0.000052	< 0.000052
	Vanadium	< 0.00071	0.00075 (J)	< 0.00071	< 0.00071	< 0.00071
Zinc	0.044	0.032	0.0079 (J)	0.0036 (J)	0.0047 (J)	

Notes:

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FIGURES

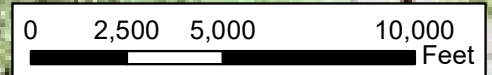


Site Location

**Landfill Cells
1&2, 3&4, and 9&10**

**Georgia Power - Plant Bowen
Cells 1&2, 3&4, and 9&10**

Site Location Map



Prepared by/Date:
RD 5/16/2018
Checked by/Date:
RRQ 5/16/2018
Project Number:
6122160287



Figure
Number:
1

Document Path: G:\Bowen\MXD\Event 10\Site_Location_Map.mxd

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, OpenStreetMap contributors, and the GIS User Community

Legend

● Spring Sampling Location

Well Location

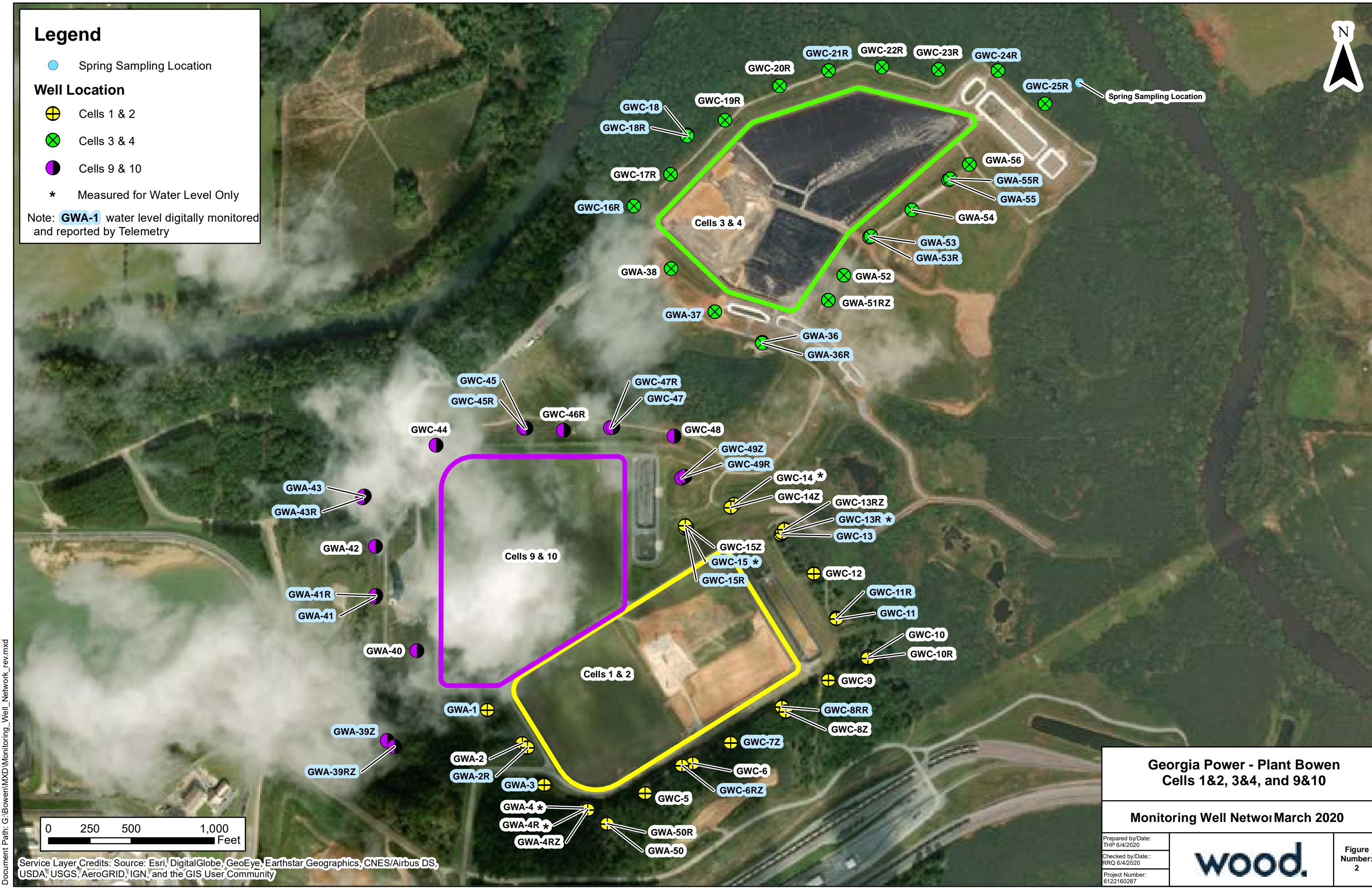
⊕ Cells 1 & 2

⊗ Cells 3 & 4

● Cells 9 & 10

* Measured for Water Level Only

Note: **GWA-1** water level digitally monitored and reported by Telemetry



Georgia Power - Plant Bowen
Cells 1&2, 3&4, and 9&10

Monitoring Well Network March 2020

Prepared by/Date:
THP 6/4/2020
Checked by/Date:
RRQ 6/4/2020
Project Number:
6122160287



Figure
Number:
2

Document Path: G:\Bowen\MXD\Monitoring_Well_Network_rev.mxd

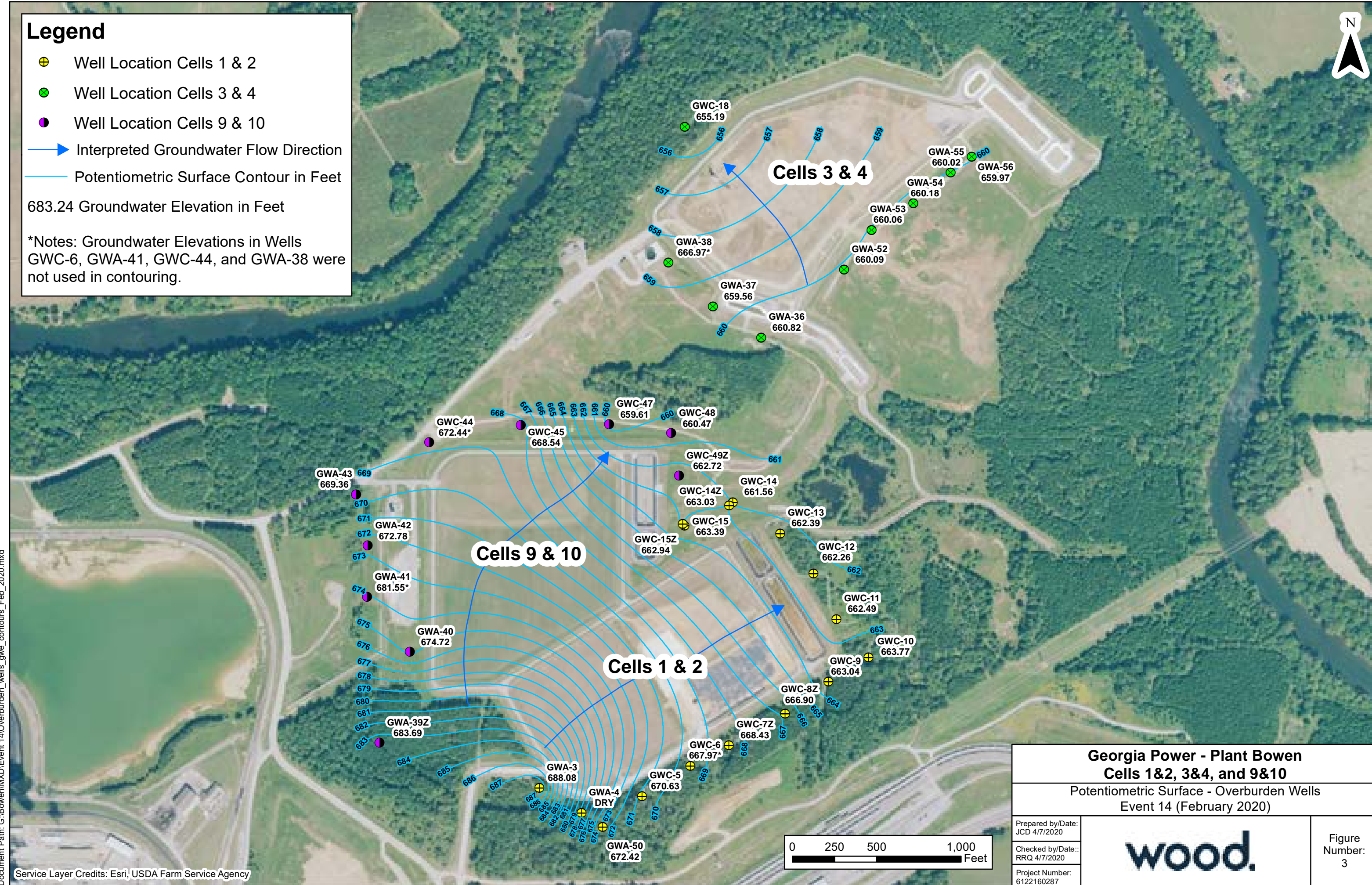
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

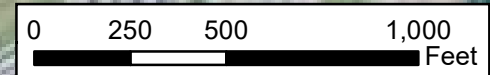
- ⊕ Well Location Cells 1 & 2
- ⊗ Well Location Cells 3 & 4
- Well Location Cells 9 & 10
- ➔ Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour in Feet

683.24 Groundwater Elevation in Feet

*Notes: Groundwater Elevations in Wells
GWC-6, GWA-41, GWC-44, and GWA-38 were
not used in contouring.



Georgia Power - Plant Bowen		
Cells 1&2, 3&4, and 9&10		
Potentiometric Surface - Overburden Wells Event 14 (February 2020)		
Prepared by/Date: JCD 4/7/2020		Figure Number: 3
Checked by/Date: RRQ 4/7/2020		
Project Number: 6122160287		



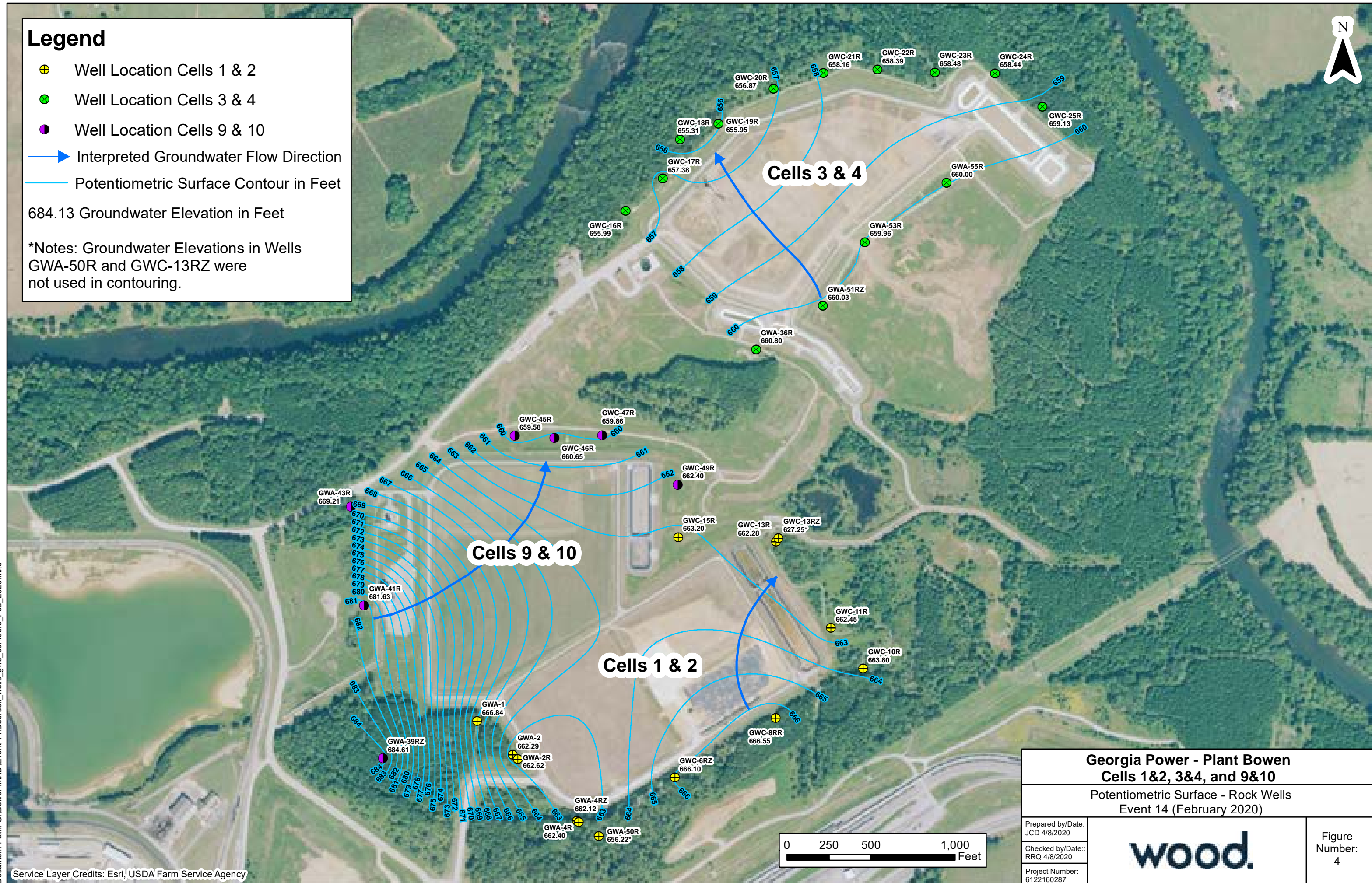
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Legend

- ⊕ Well Location Cells 1 & 2
- ⊕ Well Location Cells 3 & 4
- ⊕ Well Location Cells 9 & 10
- ➔ Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour in Feet

684.13 Groundwater Elevation in Feet

*Notes: Groundwater Elevations in Wells GWA-50R and GWC-13RZ were not used in contouring.



Georgia Power - Plant Bowen			Figure Number: 4
Cells 1&2, 3&4, and 9&10			
Potentiometric Surface - Rock Wells			
Event 14 (February 2020)			
Prepared by/Date: JCD 4/8/2020			
Checked by/Date: RRQ 4/8/2020			
Project Number: 6122160287			

Document Path: G:\Bowen\MXD\Event 14\Bedrock_wells_gwe_contours_Feb_2020.mxd

APPENDIX A
LABORATORY ANALYTICAL DATA AND FIELD
SAMPLING REPORTS FOR MARCH 2020



April 01, 2020

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

RE: Project: PLANT BOWEN CELLS 1&2
Pace Project No.: 2630125

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 13, 2020 and March 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Atlanta, GA

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

Sincerely,

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

Enclosures

cc: Michelle Barker, Wood E&I Solutions, Inc.
Kristen Jurinko
Lauren Petty, Southern Company Services, Inc.
Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630125001	GWC-13	Water	03/13/20 12:22	03/13/20 15:31
2630125002	GWC-14Z	Water	03/13/20 13:31	03/13/20 15:31
2630125003	GWC-15R	Water	03/13/20 12:24	03/13/20 15:31
2630125004	GWC-15Z	Water	03/13/20 09:56	03/13/20 15:31
2630125008	GWA-1	Water	03/11/20 10:22	03/14/20 09:00
2630125009	GWA-2	Water	03/11/20 11:32	03/14/20 09:00
2630125010	GWA-2R	Water	03/11/20 12:46	03/14/20 09:00
2630125011	GWA-3	Water	03/11/20 15:46	03/14/20 09:00
2630125012	GWA-50	Water	03/11/20 13:38	03/14/20 09:00
2630125013	GWA-50R	Water	03/11/20 14:53	03/14/20 09:00
2630125014	GWA-4RZ	Water	03/12/20 10:06	03/14/20 09:00
2630125015	GWC-6	Water	03/12/20 11:42	03/14/20 09:00
2630125016	GWC-6RZ	Water	03/12/20 10:24	03/14/20 09:00
2630125017	GWC-7Z	Water	03/12/20 13:32	03/14/20 09:00
2630125018	GWC-8RR	Water	03/12/20 15:40	03/14/20 09:00
2630125019	GWC-9	Water	03/12/20 14:58	03/14/20 09:00
2630125020	GWC-10	Water	03/12/20 12:31	03/14/20 09:00
2630125021	GWC-10R	Water	03/12/20 13:36	03/14/20 09:00
2630125022	GWC-11	Water	03/12/20 14:56	03/14/20 09:00
2630125023	GWC-11R	Water	03/12/20 16:09	03/14/20 09:00
2630125024	GWC-12	Water	03/12/20 16:26	03/14/20 09:00
2630125025	GWC-5	Water	03/16/20 12:39	03/18/20 15:37
2630125026	GWC-8Z	Water	03/16/20 10:46	03/18/20 15:37
2630125027	GWC-13RZ	Water	03/17/20 12:56	03/18/20 15:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630125001	GWC-13	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125002	GWC-14Z	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125003	GWC-15R	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125004	GWC-15Z	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125008	GWA-1	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125009	GWA-2	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125010	GWA-2R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125011	GWA-3	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630125012	GWA-50	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2630125013	GWA-50R	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125014	GWA-4RZ	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630125015	GWC-6	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2630125016	GWC-6RZ	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
2630125017	GWC-7Z	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2630125018	GWC-8RR	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630125019	GWC-9	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125020	GWC-10	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125021	GWC-10R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125022	GWC-11	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125023	GWC-11R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125024	GWC-12	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125025	GWC-5	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125026	GWC-8Z	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630125027	GWC-13RZ	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125001	GWC-13					
	Field pH	7.25	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	33.0	mg/L	1.0	03/24/20 18:06	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	03/24/20 17:50	B
EPA 6020B	Arsenic	0.00096J	mg/L	0.0050	03/24/20 17:50	
EPA 6020B	Barium	0.023	mg/L	0.010	03/24/20 17:50	
EPA 6020B	Beryllium	0.000080J	mg/L	0.0030	03/24/20 17:50	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/24/20 17:50	
EPA 6020B	Chromium	0.0054J	mg/L	0.010	03/24/20 17:50	B
EPA 6020B	Copper	0.00033J	mg/L	0.025	03/24/20 17:50	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	03/24/20 17:50	
EPA 6020B	Selenium	0.0019J	mg/L	0.010	03/24/20 17:50	
EPA 6020B	Vanadium	0.0020J	mg/L	0.010	03/24/20 17:50	
EPA 6020B	Zinc	0.0043J	mg/L	0.010	03/24/20 17:50	B
SM 2540C	Total Dissolved Solids	143	mg/L	10.0	03/19/20 13:49	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/18/20 05:11	
EPA 300.0 Rev 2.1 1993	Sulfate	16.9	mg/L	1.0	03/18/20 05:11	
2630125002	GWC-14Z					
	Field pH	6.16	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	17.0	mg/L	1.0	03/24/20 18:09	
EPA 6020B	Antimony	0.00053J	mg/L	0.0030	03/24/20 17:55	B
EPA 6020B	Barium	0.017	mg/L	0.010	03/24/20 17:55	
EPA 6020B	Beryllium	0.00016J	mg/L	0.0030	03/24/20 17:55	
EPA 6020B	Boron	0.0081J	mg/L	0.040	03/24/20 17:55	
EPA 6020B	Chromium	0.00093J	mg/L	0.010	03/24/20 17:55	B
EPA 6020B	Nickel	0.00078J	mg/L	0.010	03/24/20 17:55	
EPA 6020B	Selenium	0.0016J	mg/L	0.010	03/24/20 17:55	
EPA 6020B	Zinc	0.0028J	mg/L	0.010	03/24/20 17:55	B
SM 2540C	Total Dissolved Solids	59.0	mg/L	10.0	03/20/20 19:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	03/18/20 05:26	
EPA 300.0 Rev 2.1 1993	Sulfate	11.1	mg/L	1.0	03/18/20 05:26	
2630125003	GWC-15R					
	Field pH	7.56	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	41.0	mg/L	1.0	03/24/20 18:13	
EPA 6020B	Antimony	0.00056J	mg/L	0.0030	03/24/20 18:01	B
EPA 6020B	Arsenic	0.00047J	mg/L	0.0050	03/24/20 18:01	
EPA 6020B	Barium	0.020	mg/L	0.010	03/24/20 18:01	
EPA 6020B	Boron	0.0064J	mg/L	0.040	03/24/20 18:01	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	03/24/20 18:01	B
EPA 6020B	Copper	0.00029J	mg/L	0.025	03/24/20 18:01	
EPA 6020B	Lead	0.00037J	mg/L	0.0050	03/24/20 18:01	
EPA 6020B	Nickel	0.00072J	mg/L	0.010	03/24/20 18:01	
EPA 6020B	Vanadium	0.00077J	mg/L	0.010	03/24/20 18:01	
EPA 6020B	Zinc	0.0057J	mg/L	0.010	03/24/20 18:01	B
SM 2540C	Total Dissolved Solids	169	mg/L	10.0	03/20/20 19:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/18/20 05:41	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	03/18/20 05:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2
Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125004	GWC-15Z					
	Field pH	7.68	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	24.2	mg/L	1.0	03/24/20 20:26	M1
EPA 6020B	Arsenic	0.00052J	mg/L	0.0050	03/24/20 18:07	
EPA 6020B	Barium	0.014	mg/L	0.010	03/24/20 18:07	
EPA 6020B	Boron	0.0054J	mg/L	0.040	03/24/20 18:07	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/24/20 18:07	B
EPA 6020B	Copper	0.00020J	mg/L	0.025	03/24/20 18:07	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	03/24/20 18:07	
EPA 6020B	Vanadium	0.00095J	mg/L	0.010	03/24/20 18:07	
EPA 6020B	Zinc	0.0026J	mg/L	0.010	03/24/20 18:07	B
SM 2540C	Total Dissolved Solids	76.0	mg/L	10.0	03/20/20 19:12	
EPA 300.0 Rev 2.1 1993	Chloride	0.70J	mg/L	1.0	03/18/20 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/18/20 05:55	
2630125008	GWA-1					
	Field pH	7.51	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	31.8	mg/L	1.0	03/24/20 21:23	
EPA 6020B	Antimony	0.00079J	mg/L	0.0030	03/24/20 19:39	B
EPA 6020B	Arsenic	0.00088J	mg/L	0.0050	03/24/20 19:39	
EPA 6020B	Barium	0.016	mg/L	0.010	03/24/20 19:39	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/24/20 19:39	B
EPA 6020B	Cobalt	0.00037J	mg/L	0.0050	03/24/20 19:39	
EPA 6020B	Nickel	0.00068J	mg/L	0.010	03/24/20 19:39	
EPA 6020B	Zinc	0.0035J	mg/L	0.010	03/24/20 19:39	B
SM 2540C	Total Dissolved Solids	172	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/19/20 18:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.30	03/19/20 18:57	
EPA 300.0 Rev 2.1 1993	Sulfate	0.94J	mg/L	1.0	03/19/20 18:57	
2630125009	GWA-2					
	Field pH	6.56	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	66.6	mg/L	1.0	03/24/20 21:33	
EPA 6020B	Barium	0.035	mg/L	0.010	03/24/20 19:45	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/24/20 19:45	
EPA 6020B	Chromium	0.0025J	mg/L	0.010	03/24/20 19:45	B
EPA 6020B	Copper	0.00020J	mg/L	0.025	03/24/20 19:45	
EPA 6020B	Nickel	0.0014J	mg/L	0.010	03/24/20 19:45	
EPA 6020B	Selenium	0.0021J	mg/L	0.010	03/24/20 19:45	
EPA 6020B	Zinc	0.0028J	mg/L	0.010	03/24/20 19:45	B
SM 2540C	Total Dissolved Solids	309	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	03/19/20 19:11	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	03/20/20 14:38	
2630125010	GWA-2R					
	Field pH	7.09	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	46.8	mg/L	1.0	03/24/20 21:37	
EPA 6020B	Antimony	0.0020J	mg/L	0.0030	03/24/20 19:50	B
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	03/24/20 19:50	
EPA 6020B	Barium	0.027	mg/L	0.010	03/24/20 19:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125010	GWA-2R					
EPA 6020B	Boron	0.017J	mg/L	0.040	03/24/20 19:50	
EPA 6020B	Chromium	0.0042J	mg/L	0.010	03/24/20 19:50	B
EPA 6020B	Copper	0.0011J	mg/L	0.025	03/24/20 19:50	
EPA 6020B	Lead	0.000058J	mg/L	0.0050	03/24/20 19:50	
EPA 6020B	Nickel	0.0020J	mg/L	0.010	03/24/20 19:50	
EPA 6020B	Vanadium	0.00084J	mg/L	0.010	03/24/20 19:50	
EPA 6020B	Zinc	0.0038J	mg/L	0.010	03/24/20 19:50	B
SM 2540C	Total Dissolved Solids	170	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	0.60J	mg/L	1.0	03/19/20 19:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.30	03/19/20 19:25	
EPA 300.0 Rev 2.1 1993	Sulfate	34.3	mg/L	1.0	03/19/20 19:25	
2630125011	GWA-3					
	Field pH	5.31	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	1.0	mg/L	1.0	03/24/20 21:40	
EPA 6020B	Antimony	0.0045	mg/L	0.0030	03/25/20 19:42	
EPA 6020B	Barium	0.0041J	mg/L	0.010	03/25/20 19:42	
EPA 6020B	Boron	0.0071J	mg/L	0.040	03/25/20 19:42	
EPA 6020B	Chromium	0.00095J	mg/L	0.010	03/25/20 19:42	B
EPA 6020B	Cobalt	0.00041J	mg/L	0.0050	03/25/20 19:42	
EPA 6020B	Copper	0.027	mg/L	0.025	03/25/20 19:42	
EPA 6020B	Nickel	0.012	mg/L	0.010	03/25/20 19:42	
EPA 6020B	Zinc	0.031	mg/L	0.010	03/25/20 19:42	
SM 2540C	Total Dissolved Solids	24.0	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/19/20 19:39	
2630125012	GWA-50					
	Field pH	5.57	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/24/20 21:44	
EPA 6020B	Antimony	0.00050J	mg/L	0.0030	03/25/20 19:48	
EPA 6020B	Barium	0.0077J	mg/L	0.010	03/25/20 19:48	
EPA 6020B	Boron	0.0063J	mg/L	0.040	03/25/20 19:48	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	03/25/20 19:48	B
EPA 6020B	Copper	0.0026J	mg/L	0.025	03/25/20 19:48	
EPA 6020B	Nickel	0.00084J	mg/L	0.010	03/25/20 19:48	
EPA 6020B	Silver	0.00039J	mg/L	0.010	03/25/20 19:48	
EPA 6020B	Zinc	0.0025J	mg/L	0.010	03/25/20 19:48	
SM 2540C	Total Dissolved Solids	17.0	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	0.91J	mg/L	1.0	03/19/20 19:53	
2630125013	GWA-50R					
	Field pH	5.40	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/24/20 21:47	
EPA 6020B	Barium	0.0095J	mg/L	0.010	03/25/20 15:56	
EPA 6020B	Boron	0.0070J	mg/L	0.040	03/25/20 15:56	
EPA 6020B	Copper	0.0035J	mg/L	0.025	03/25/20 15:56	
EPA 6020B	Nickel	0.0010J	mg/L	0.010	03/25/20 15:56	
EPA 6020B	Silver	0.0013J	mg/L	0.010	03/25/20 15:56	
EPA 6020B	Thallium	0.000059J	mg/L	0.0010	03/25/20 15:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125013	GWA-50R					
EPA 6020B	Zinc	0.0033J	mg/L	0.010	03/25/20 15:56	
SM 2540C	Total Dissolved Solids	24.0	mg/L	10.0	03/18/20 18:33	
EPA 300.0 Rev 2.1 1993	Chloride	0.73J	mg/L	1.0	03/19/20 20:07	
EPA 300.0 Rev 2.1 1993	Sulfate	0.85J	mg/L	1.0	03/19/20 20:07	
2630125014	GWA-4RZ					
	Field pH	7.55	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	54.2	mg/L	1.0	03/24/20 21:51	
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	03/25/20 16:19	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	03/25/20 16:19	
EPA 6020B	Barium	0.053	mg/L	0.010	03/25/20 16:19	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/25/20 16:19	
EPA 6020B	Cobalt	0.013	mg/L	0.0050	03/25/20 16:19	
EPA 6020B	Copper	0.00020J	mg/L	0.025	03/25/20 16:19	
EPA 6020B	Nickel	0.00034J	mg/L	0.010	03/25/20 16:19	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/25/20 16:19	
SM 2540C	Total Dissolved Solids	247	mg/L	10.0	03/18/20 18:34	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/19/20 20:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18J	mg/L	0.30	03/19/20 20:49	
EPA 300.0 Rev 2.1 1993	Sulfate	20.8	mg/L	1.0	03/19/20 20:49	
2630125015	GWC-6					
	Field pH	7.40	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	16.2	mg/L	1.0	03/24/20 21:54	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	03/25/20 16:25	
EPA 6020B	Arsenic	0.00055J	mg/L	0.0050	03/25/20 16:25	
EPA 6020B	Barium	0.0075J	mg/L	0.010	03/25/20 16:25	
EPA 6020B	Boron	0.0061J	mg/L	0.040	03/25/20 16:25	
EPA 6020B	Chromium	0.0034J	mg/L	0.010	03/25/20 16:25	
EPA 6020B	Lead	0.00010J	mg/L	0.0050	03/25/20 16:25	
EPA 6020B	Zinc	0.0042J	mg/L	0.010	03/25/20 16:25	
SM 2540C	Total Dissolved Solids	42.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/19/20 21:03	
EPA 300.0 Rev 2.1 1993	Sulfate	2.1	mg/L	1.0	03/19/20 21:03	
2630125016	GWC-6RZ					
	Field pH	6.88	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	9.3	mg/L	1.0	03/24/20 21:58	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/25/20 16:30	
EPA 6020B	Barium	0.0072J	mg/L	0.010	03/25/20 16:30	
EPA 6020B	Beryllium	0.000093J	mg/L	0.0030	03/25/20 16:30	
EPA 6020B	Boron	0.0052J	mg/L	0.040	03/25/20 16:30	
EPA 6020B	Chromium	0.0028J	mg/L	0.010	03/25/20 16:30	
EPA 6020B	Copper	0.00028J	mg/L	0.025	03/25/20 16:30	
EPA 6020B	Lead	0.000070J	mg/L	0.0050	03/25/20 16:30	
EPA 6020B	Zinc	0.0032J	mg/L	0.010	03/25/20 16:30	
SM 2540C	Total Dissolved Solids	22.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/19/20 21:45	
EPA 300.0 Rev 2.1 1993	Sulfate	1.4	mg/L	1.0	03/19/20 21:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125017	GWC-7Z					
	Field pH	7.53	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	26.4	mg/L	1.0	03/25/20 18:22	M1
EPA 6020B	Antimony	0.00066J	mg/L	0.0030	03/25/20 16:36	
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	03/25/20 16:36	
EPA 6020B	Barium	0.022	mg/L	0.010	03/25/20 16:36	
EPA 6020B	Boron	0.0057J	mg/L	0.040	03/25/20 16:36	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/25/20 16:36	
EPA 6020B	Cobalt	0.00031J	mg/L	0.0050	03/25/20 16:36	
EPA 6020B	Copper	0.00021J	mg/L	0.025	03/25/20 16:36	
EPA 6020B	Lead	0.000082J	mg/L	0.0050	03/25/20 16:36	
EPA 6020B	Nickel	0.00078J	mg/L	0.010	03/25/20 16:36	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	03/25/20 16:36	
EPA 6020B	Zinc	0.0031J	mg/L	0.010	03/25/20 16:36	
SM 2540C	Total Dissolved Solids	86.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	0.72J	mg/L	1.0	03/19/20 21:59	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/19/20 21:59	
2630125018	GWC-8RR					
	Field pH	8.02	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	21.8	mg/L	1.0	03/25/20 18:36	
EPA 6020B	Antimony	0.00043J	mg/L	0.0030	03/25/20 16:57	
EPA 6020B	Arsenic	0.00039J	mg/L	0.0050	03/25/20 16:57	
EPA 6020B	Barium	0.014	mg/L	0.010	03/25/20 16:57	
EPA 6020B	Chromium	0.0031J	mg/L	0.010	03/25/20 16:57	
EPA 6020B	Lead	0.000056J	mg/L	0.0050	03/25/20 16:57	
EPA 6020B	Zinc	0.0020J	mg/L	0.010	03/25/20 16:57	
SM 2540C	Total Dissolved Solids	84.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	0.93J	mg/L	1.0	03/19/20 22:13	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	03/19/20 22:13	
2630125019	GWC-9					
	Field pH	4.82	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	1.8	mg/L	1.0	03/25/20 18:40	
EPA 6020B	Barium	0.044	mg/L	0.010	03/25/20 17:03	
EPA 6020B	Beryllium	0.00022J	mg/L	0.0030	03/25/20 17:03	
EPA 6020B	Boron	0.0058J	mg/L	0.040	03/25/20 17:03	
EPA 6020B	Chromium	0.00045J	mg/L	0.010	03/25/20 17:03	
EPA 6020B	Cobalt	0.00044J	mg/L	0.0050	03/25/20 17:03	
EPA 6020B	Copper	0.00031J	mg/L	0.025	03/25/20 17:03	
EPA 6020B	Lead	0.00016J	mg/L	0.0050	03/25/20 17:03	
EPA 6020B	Nickel	0.0011J	mg/L	0.010	03/25/20 17:03	
EPA 6020B	Zinc	0.0045J	mg/L	0.010	03/25/20 17:03	
SM 2540C	Total Dissolved Solids	16.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	03/19/20 22:27	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/19/20 22:27	
2630125020	GWC-10					
	Field pH	6.43	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	18.6	mg/L	1.0	03/25/20 18:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125020	GWC-10					
EPA 6020B	Barium	0.026	mg/L	0.010	03/25/20 17:08	
EPA 6020B	Beryllium	0.00017J	mg/L	0.0030	03/25/20 17:08	
EPA 6020B	Chromium	0.00047J	mg/L	0.010	03/25/20 17:08	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/25/20 17:08	
EPA 6020B	Nickel	0.0015J	mg/L	0.010	03/25/20 17:08	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/25/20 17:08	
SM 2540C	Total Dissolved Solids	63.0	mg/L	10.0	03/19/20 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/19/20 22:41	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	03/19/20 22:41	
2630125021	GWC-10R					
	Field pH	7.49	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	43.2	mg/L	1.0	03/25/20 18:47	
EPA 6020B	Barium	0.028	mg/L	0.010	03/25/20 17:14	
EPA 6020B	Boron	0.0050J	mg/L	0.040	03/25/20 17:14	
EPA 6020B	Nickel	0.00043J	mg/L	0.010	03/25/20 17:14	
EPA 6020B	Thallium	0.000054J	mg/L	0.0010	03/25/20 17:14	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/25/20 17:14	
SM 2540C	Total Dissolved Solids	81.0	mg/L	10.0	03/19/20 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	03/19/20 22:55	
EPA 300.0 Rev 2.1 1993	Sulfate	0.99J	mg/L	1.0	03/19/20 22:55	
2630125022	GWC-11					
	Field pH	6.30	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	8.0	mg/L	1.0	03/25/20 18:50	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/27/20 19:48	
EPA 6020B	Barium	0.0086J	mg/L	0.010	03/27/20 19:48	
EPA 6020B	Chromium	0.00084J	mg/L	0.010	03/27/20 19:48	B
EPA 6020B	Copper	0.00023J	mg/L	0.025	03/27/20 19:48	
EPA 6020B	Lead	0.000052J	mg/L	0.0050	03/27/20 19:48	
EPA 6020B	Zinc	0.0038J	mg/L	0.010	03/27/20 19:48	
SM 2540C	Total Dissolved Solids	96.0	mg/L	10.0	03/19/20 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	03/20/20 06:54	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	03/20/20 06:54	
2630125023	GWC-11R					
	Field pH	7.60	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	32.5	mg/L	1.0	03/25/20 18:54	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	03/25/20 17:26	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	03/25/20 17:26	
EPA 6020B	Barium	0.021	mg/L	0.010	03/25/20 17:26	
EPA 6020B	Boron	0.0058J	mg/L	0.040	03/25/20 17:26	
EPA 6020B	Chromium	0.0042J	mg/L	0.010	03/25/20 17:26	
EPA 6020B	Copper	0.00032J	mg/L	0.025	03/25/20 17:26	
EPA 6020B	Lead	0.000046J	mg/L	0.0050	03/25/20 17:26	
EPA 6020B	Zinc	0.0053J	mg/L	0.010	03/25/20 17:26	
SM 2540C	Total Dissolved Solids	125	mg/L	10.0	03/19/20 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/20/20 07:08	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/20/20 07:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2
Pace Project No.: 2630125

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630125024	GWC-12					
	Field pH	6.17	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	8.1	mg/L	1.0	03/25/20 19:04	
EPA 6020B	Arsenic	0.0053	mg/L	0.0050	03/25/20 17:31	
EPA 6020B	Barium	0.023	mg/L	0.010	03/25/20 17:31	
EPA 6020B	Cadmium	0.00089J	mg/L	0.0025	03/25/20 17:31	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	03/25/20 17:31	
EPA 6020B	Nickel	0.0022J	mg/L	0.010	03/25/20 17:31	
EPA 6020B	Zinc	0.015	mg/L	0.010	03/25/20 17:31	
SM 2540C	Total Dissolved Solids	64.0	mg/L	10.0	03/19/20 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	0.84J	mg/L	1.0	03/20/20 07:22	
2630125025	GWC-5					
	Field pH	6.88	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	12.1	mg/L	1.0	03/25/20 16:49	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	03/26/20 17:32	B
EPA 6020B	Barium	0.024	mg/L	0.010	03/26/20 17:32	
EPA 6020B	Beryllium	0.00048J	mg/L	0.0030	03/26/20 17:32	
EPA 6020B	Chromium	0.00078J	mg/L	0.010	03/26/20 17:32	
EPA 6020B	Cobalt	0.00031J	mg/L	0.0050	03/26/20 17:32	
EPA 6020B	Copper	0.012J	mg/L	0.025	03/26/20 17:32	
EPA 6020B	Lead	0.000051J	mg/L	0.0050	03/26/20 17:32	
EPA 6020B	Nickel	0.015	mg/L	0.010	03/26/20 17:32	
EPA 6020B	Zinc	0.047	mg/L	0.010	03/26/20 17:32	
SM 2540C	Total Dissolved Solids	20.0	mg/L	10.0	03/21/20 11:34	
EPA 300.0 Rev 2.1 1993	Chloride	0.67J	mg/L	1.0	03/21/20 21:20	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/21/20 21:20	
2630125026	GWC-8Z					
	Field pH	7.01	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	19.4	mg/L	1.0	03/25/20 16:52	
EPA 6020B	Barium	0.027	mg/L	0.010	03/26/20 17:38	
EPA 6020B	Chromium	0.0015J	mg/L	0.010	03/26/20 17:38	
EPA 6020B	Copper	0.00024J	mg/L	0.025	03/26/20 17:38	
EPA 6020B	Lead	0.00016J	mg/L	0.0050	03/26/20 17:38	
EPA 6020B	Nickel	0.00060J	mg/L	0.010	03/26/20 17:38	
EPA 6020B	Zinc	0.0073J	mg/L	0.010	03/26/20 17:38	B
SM 2540C	Total Dissolved Solids	76.0	mg/L	10.0	03/21/20 11:34	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/21/20 21:34	
EPA 300.0 Rev 2.1 1993	Sulfate	0.66J	mg/L	1.0	03/21/20 21:34	
2630125027	GWC-13RZ					
	Field pH	7.62	Std. Units		03/24/20 15:17	
EPA 6010D	Calcium	44.9	mg/L	1.0	03/25/20 20:08	
EPA 6020B	Antimony	0.00090J	mg/L	0.0030	03/26/20 17:43	B
EPA 6020B	Arsenic	0.00067J	mg/L	0.0050	03/26/20 17:43	
EPA 6020B	Barium	0.097	mg/L	0.010	03/26/20 17:43	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/26/20 17:43	
EPA 6020B	Chromium	0.0020J	mg/L	0.010	03/26/20 17:43	
EPA 6020B	Copper	0.00045J	mg/L	0.025	03/26/20 17:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630125027	GWC-13RZ					
EPA 6020B	Nickel	0.00082J	mg/L	0.010	03/26/20 17:43	
EPA 6020B	Zinc	0.0057J	mg/L	0.010	03/26/20 17:43	B
SM 2540C	Total Dissolved Solids	256	mg/L	10.0	03/21/20 11:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.7	mg/L	1.0	03/21/20 21:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11J	mg/L	0.30	03/21/20 21:48	
EPA 300.0 Rev 2.1 1993	Sulfate	72.1	mg/L	1.0	03/21/20 21:48	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-13 **Lab ID: 2630125001** Collected: 03/13/20 12:22 Received: 03/13/20 15:31 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.25	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	33.0	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 18:06	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.0023J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 17:50	7440-36-0	B
Arsenic	0.00096J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 17:50	7440-38-2	
Barium	0.023	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 17:50	7440-39-3	
Beryllium	0.000080J	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 17:50	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 17:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 17:50	7440-43-9	
Chromium	0.0054J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 17:50	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 17:50	7440-48-4	
Copper	0.00033J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 17:50	7440-50-8	
Lead	0.00013J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 17:50	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 17:50	7440-02-0	
Selenium	0.0019J	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 17:50	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 17:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 17:50	7440-28-0	
Vanadium	0.0020J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 17:50	7440-62-2	
Zinc	0.0043J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 17:50	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:17	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	143	mg/L	10.0	10.0	1		03/19/20 13:49		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	3.3	mg/L	1.0	0.60	1		03/18/20 05:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/18/20 05:11	16984-48-8	
Sulfate	16.9	mg/L	1.0	0.50	1		03/18/20 05:11	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-14Z **Lab ID: 2630125002** Collected: 03/13/20 13:31 Received: 03/13/20 15:31 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **6.16** Std. Units 1 03/24/20 15:17

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **17.0** mg/L 1.0 0.14 1 03/23/20 16:48 03/24/20 18:09 7440-70-2

6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.00053J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 17:55	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 17:55	7440-38-2	
Barium	0.017	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 17:55	7440-39-3	
Beryllium	0.00016J	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 17:55	7440-41-7	
Boron	0.0081J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 17:55	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 17:55	7440-43-9	
Chromium	0.00093J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 17:55	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 17:55	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 17:55	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 17:55	7439-92-1	
Nickel	0.00078J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 17:55	7440-02-0	
Selenium	0.0016J	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 17:55	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 17:55	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 17:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 17:55	7440-62-2	
Zinc	0.0028J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 17:55	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 11:30 03/24/20 12:31 7439-97-6

2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **59.0** mg/L 10.0 10.0 1 03/20/20 19:11

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	4.2	mg/L	1.0	0.60	1	03/18/20 05:26	16887-00-6
Fluoride	ND	mg/L	0.30	0.050	1	03/18/20 05:26	16984-48-8
Sulfate	11.1	mg/L	1.0	0.50	1	03/18/20 05:26	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-15R **Lab ID: 2630125003** Collected: 03/13/20 12:24 Received: 03/13/20 15:31 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.56	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	41.0	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 18:13	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.00056J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:01	7440-36-0	B
Arsenic	0.00047J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:01	7440-38-2	
Barium	0.020	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:01	7440-41-7	
Boron	0.0064J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:01	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:01	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:01	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:01	7440-48-4	
Copper	0.00029J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:01	7440-50-8	
Lead	0.00037J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:01	7439-92-1	
Nickel	0.00072J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:01	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:01	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:01	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:01	7440-28-0	
Vanadium	0.00077J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:01	7440-62-2	
Zinc	0.0057J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:01	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:33	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	169	mg/L	10.0	10.0	1		03/20/20 19:12		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.6	mg/L	1.0	0.60	1		03/18/20 05:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/18/20 05:41	16984-48-8	
Sulfate	8.8	mg/L	1.0	0.50	1		03/18/20 05:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-15Z **Lab ID: 2630125004** Collected: 03/13/20 09:56 Received: 03/13/20 15:31 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.68	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	24.2	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 20:26	7440-70-2	M1
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:07	7440-36-0	
Arsenic	0.00052J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:07	7440-38-2	
Barium	0.014	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:07	7440-41-7	
Boron	0.0054J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:07	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:07	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:07	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:07	7440-48-4	
Copper	0.00020J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:07	7440-50-8	
Lead	0.000048J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:07	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:07	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:07	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:07	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:07	7440-28-0	
Vanadium	0.00095J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:07	7440-62-2	
Zinc	0.0026J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:07	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:36	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	76.0	mg/L	10.0	10.0	1		03/20/20 19:12		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	0.70J	mg/L	1.0	0.60	1		03/18/20 05:55	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/18/20 05:55	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		03/18/20 05:55	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-1 **Lab ID: 2630125008** Collected: 03/11/20 10:22 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data
 Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.51	Std. Units			1		03/24/20 15:17		
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6010D MET ICP
 Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	31.8	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:23	7440-70-2	
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6020B MET ICPMS
 Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.00079J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:39	7440-36-0	B
Arsenic	0.00088J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:39	7440-38-2	
Barium	0.016	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:39	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:39	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:39	7440-47-3	B
Cobalt	0.00037J	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:39	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:39	7439-92-1	
Nickel	0.00068J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:39	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:39	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:39	7440-62-2	
Zinc	0.0035J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:39	7440-66-6	B

7470 Mercury
 Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:04	7439-97-6	
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2540C Total Dissolved Solids
 Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	172	mg/L	10.0	10.0	1		03/18/20 18:32		
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300.0 IC Anions 28 Days
 Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.4	mg/L	1.0	0.60	1		03/19/20 18:57	16887-00-6	
Fluoride	0.052J	mg/L	0.30	0.050	1		03/19/20 18:57	16984-48-8	
Sulfate	0.94J	mg/L	1.0	0.50	1		03/19/20 18:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-2 **Lab ID: 2630125009** Collected: 03/11/20 11:32 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	6.56	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	66.6	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:33	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:45	7440-38-2	
Barium	0.035	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:45	7440-41-7	
Boron	0.0068J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:45	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:45	7440-43-9	
Chromium	0.0025J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:45	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:45	7440-48-4	
Copper	0.00020J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:45	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:45	7439-92-1	
Nickel	0.0014J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:45	7440-02-0	
Selenium	0.0021J	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:45	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:45	7440-62-2	
Zinc	0.0028J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:45	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:07	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	309	mg/L	10.0	10.0	1		03/18/20 18:32		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	2.0	mg/L	1.0	0.60	1		03/19/20 19:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 19:11	16984-48-8	
Sulfate	131	mg/L	3.0	1.5	3		03/20/20 14:38	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-2R **Lab ID: 2630125010** Collected: 03/11/20 12:46 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **7.09** Std. Units 1 03/24/20 15:17

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **46.8** mg/L 1.0 0.14 1 03/23/20 20:25 03/24/20 21:37 7440-70-2

6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.0020J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:50	7440-36-0	B
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:50	7440-38-2	
Barium	0.027	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:50	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:50	7440-43-9	
Chromium	0.0042J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:50	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:50	7440-48-4	
Copper	0.0011J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:50	7440-50-8	
Lead	0.000058J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:50	7439-92-1	
Nickel	0.0020J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:50	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:50	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:50	7440-28-0	
Vanadium	0.00084J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:50	7440-62-2	
Zinc	0.0038J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:50	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 11:30 03/24/20 13:09 7439-97-6

2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **170** mg/L 10.0 10.0 1 03/18/20 18:32

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	0.60J	mg/L	1.0	0.60	1	03/19/20 19:25	16887-00-6
Fluoride	0.052J	mg/L	0.30	0.050	1	03/19/20 19:25	16984-48-8
Sulfate	34.3	mg/L	1.0	0.50	1	03/19/20 19:25	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-3 **Lab ID: 2630125011** Collected: 03/11/20 15:46 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	5.31	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	1.0	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:40	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.0045	mg/L	0.0030	0.00027	1	03/25/20 15:06	03/25/20 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/25/20 15:06	03/25/20 19:42	7440-38-2	
Barium	0.0041J	mg/L	0.010	0.00049	1	03/25/20 15:06	03/25/20 19:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/25/20 15:06	03/25/20 19:42	7440-41-7	
Boron	0.0071J	mg/L	0.040	0.0049	1	03/25/20 15:06	03/25/20 19:42	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/25/20 15:06	03/25/20 19:42	7440-43-9	
Chromium	0.00095J	mg/L	0.010	0.00039	1	03/25/20 15:06	03/25/20 19:42	7440-47-3	B
Cobalt	0.00041J	mg/L	0.0050	0.00030	1	03/25/20 15:06	03/25/20 19:42	7440-48-4	
Copper	0.027	mg/L	0.025	0.00019	1	03/25/20 15:06	03/25/20 19:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/25/20 15:06	03/25/20 19:42	7439-92-1	
Nickel	0.012	mg/L	0.010	0.00031	1	03/25/20 15:06	03/25/20 19:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/25/20 15:06	03/25/20 19:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/25/20 15:06	03/25/20 19:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/25/20 15:06	03/25/20 19:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/25/20 15:06	03/25/20 19:42	7440-62-2	
Zinc	0.031	mg/L	0.010	0.0015	1	03/25/20 15:06	03/25/20 19:42	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:11	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	24.0	mg/L	10.0	10.0	1		03/18/20 18:32		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.4	mg/L	1.0	0.60	1		03/19/20 19:39	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 19:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/19/20 19:39	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWA-50 **Lab ID: 2630125012** Collected: 03/11/20 13:38 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method: Pace Analytical Services - Atlanta, GA

Field pH	5.57	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium	1.6	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:44	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Atlanta, GA

Antimony	0.00050J	mg/L	0.0030	0.00027	1	03/25/20 15:06	03/25/20 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/25/20 15:06	03/25/20 19:48	7440-38-2	
Barium	0.0077J	mg/L	0.010	0.00049	1	03/25/20 15:06	03/25/20 19:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/25/20 15:06	03/25/20 19:48	7440-41-7	
Boron	0.0063J	mg/L	0.040	0.0049	1	03/25/20 15:06	03/25/20 19:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/25/20 15:06	03/25/20 19:48	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00039	1	03/25/20 15:06	03/25/20 19:48	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/25/20 15:06	03/25/20 19:48	7440-48-4	
Copper	0.0026J	mg/L	0.025	0.00019	1	03/25/20 15:06	03/25/20 19:48	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/25/20 15:06	03/25/20 19:48	7439-92-1	
Nickel	0.00084J	mg/L	0.010	0.00031	1	03/25/20 15:06	03/25/20 19:48	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/25/20 15:06	03/25/20 19:48	7782-49-2	
Silver	0.00039J	mg/L	0.010	0.00028	1	03/25/20 15:06	03/25/20 19:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/25/20 15:06	03/25/20 19:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/25/20 15:06	03/25/20 19:48	7440-62-2	
Zinc	0.0025J	mg/L	0.010	0.0015	1	03/25/20 15:06	03/25/20 19:48	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:14	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	17.0	mg/L	10.0	10.0	1		03/18/20 18:32		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	0.91J	mg/L	1.0	0.60	1		03/19/20 19:53	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 19:53	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/19/20 19:53	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-50R **Lab ID: 2630125013** Collected: 03/11/20 14:53 Received: 03/14/20 09:00 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **5.40** Std. Units 1 03/24/20 15:17

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **1.2** mg/L 1.0 0.14 1 03/23/20 20:25 03/24/20 21:47 7440-70-2

6020B MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 15:56	7440-36-0
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 15:56	7440-38-2
Barium	0.0095J	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 15:56	7440-39-3
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 15:56	7440-41-7
Boron	0.0070J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 15:56	7440-42-8
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 15:56	7440-43-9
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 15:56	7440-47-3
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 15:56	7440-48-4
Copper	0.0035J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 15:56	7440-50-8
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 15:56	7439-92-1
Nickel	0.0010J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 15:56	7440-02-0
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 15:56	7782-49-2
Silver	0.0013J	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 15:56	7440-22-4
Thallium	0.000059J	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 15:56	7440-28-0
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 15:56	7440-62-2
Zinc	0.0033J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 15:56	7440-66-6

7470 Mercury

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

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 11:30 03/24/20 13:16 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **24.0** mg/L 10.0 10.0 1 03/18/20 18:33

300.0 IC Anions 28 Days

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

Chloride	0.73J	mg/L	1.0	0.60	1	03/19/20 20:07	16887-00-6
Fluoride	ND	mg/L	0.30	0.050	1	03/19/20 20:07	16984-48-8
Sulfate	0.85J	mg/L	1.0	0.50	1	03/19/20 20:07	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWA-4RZ **Lab ID: 2630125014** Collected: 03/12/20 10:06 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.55	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	54.2	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:51	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.0017J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 16:19	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 16:19	7440-38-2	
Barium	0.053	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 16:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 16:19	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 16:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 16:19	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 16:19	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 16:19	7440-48-4	
Copper	0.00020J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 16:19	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 16:19	7439-92-1	
Nickel	0.00034J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 16:19	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 16:19	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 16:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 16:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 16:19	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 16:19	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:19	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	247	mg/L	10.0	10.0	1		03/18/20 18:34		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	2.3	mg/L	1.0	0.60	1		03/19/20 20:49	16887-00-6	
Fluoride	0.18J	mg/L	0.30	0.050	1		03/19/20 20:49	16984-48-8	
Sulfate	20.8	mg/L	1.0	0.50	1		03/19/20 20:49	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-6 **Lab ID: 2630125015** Collected: 03/12/20 11:42 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **7.40** Std. Units 1 03/24/20 15:17

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **16.2** mg/L 1.0 0.14 1 03/23/20 20:25 03/24/20 21:54 7440-70-2

6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.00052J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 16:25	7440-36-0	
Arsenic	0.00055J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 16:25	7440-38-2	
Barium	0.0075J	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 16:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 16:25	7440-41-7	
Boron	0.0061J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 16:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 16:25	7440-43-9	
Chromium	0.0034J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 16:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 16:25	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 16:25	7440-50-8	
Lead	0.00010J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 16:25	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 16:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 16:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 16:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 16:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 16:25	7440-62-2	
Zinc	0.0042J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 16:25	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 11:39 7439-97-6

2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **42.0** mg/L 10.0 10.0 1 03/19/20 13:47

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.3	mg/L	1.0	0.60	1	03/19/20 21:03	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1	03/19/20 21:03	16984-48-8	
Sulfate	2.1	mg/L	1.0	0.50	1	03/19/20 21:03	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWC-6RZ **Lab ID: 2630125016** Collected: 03/12/20 10:24 Received: 03/14/20 09:00 Matrix: Water

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

Field Data

Analytical Method:
Pace Analytical Services - Atlanta, GA

Field pH **6.88** Std. Units 1 03/24/20 15:17

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium **9.3** mg/L 1.0 0.14 1 03/23/20 20:25 03/24/20 21:58 7440-70-2

6020B MET ICPMS

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

Antimony	0.0011J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 16:30	7440-36-0
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 16:30	7440-38-2
Barium	0.0072J	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 16:30	7440-39-3
Beryllium	0.000093J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 16:30	7440-41-7
Boron	0.0052J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 16:30	7440-42-8
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 16:30	7440-43-9
Chromium	0.0028J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 16:30	7440-47-3
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 16:30	7440-48-4
Copper	0.00028J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 16:30	7440-50-8
Lead	0.000070J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 16:30	7439-92-1
Nickel	ND	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 16:30	7440-02-0
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 16:30	7782-49-2
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 16:30	7440-22-4
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 16:30	7440-28-0
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 16:30	7440-62-2
Zinc	0.0032J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 16:30	7440-66-6

7470 Mercury

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

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 11:42 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **22.0** mg/L 10.0 10.0 1 03/19/20 13:47

300.0 IC Anions 28 Days

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

Chloride	1.3	mg/L	1.0	0.60	1	03/19/20 21:45	16887-00-6
Fluoride	ND	mg/L	0.30	0.050	1	03/19/20 21:45	16984-48-8
Sulfate	1.4	mg/L	1.0	0.50	1	03/19/20 21:45	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWC-7Z **Lab ID: 2630125017** Collected: 03/12/20 13:32 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
Pace Analytical Services - Atlanta, GA

Field pH	7.53	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium	26.4	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 18:22	7440-70-2	M1
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Atlanta, GA

Antimony	0.00066J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 16:36	7440-36-0	
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 16:36	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 16:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 16:36	7440-41-7	
Boron	0.0057J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 16:36	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 16:36	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 16:36	7440-47-3	
Cobalt	0.00031J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 16:36	7440-48-4	
Copper	0.00021J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 16:36	7440-50-8	
Lead	0.00082J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 16:36	7439-92-1	
Nickel	0.00078J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 16:36	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 16:36	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 16:36	7440-22-4	
Thallium	0.00022J	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 16:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 16:36	7440-62-2	
Zinc	0.0031J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 16:36	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 11:44	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	86.0	mg/L	10.0	10.0	1		03/19/20 13:47		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	0.72J	mg/L	1.0	0.60	1		03/19/20 21:59	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 21:59	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/19/20 21:59	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWC-8RR **Lab ID: 2630125018** Collected: 03/12/20 15:40 Received: 03/14/20 09:00 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Atlanta, GA

Field pH **8.02** Std. Units 1 03/24/20 15:17

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium **21.8** mg/L 1.0 0.14 1 03/24/20 18:06 03/25/20 18:36 7440-70-2

6020B MET ICPMS

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

Antimony	0.00043J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 16:57	7440-36-0	
Arsenic	0.00039J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 16:57	7440-38-2	
Barium	0.014	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 16:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 16:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 16:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 16:57	7440-43-9	
Chromium	0.0031J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 16:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 16:57	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 16:57	7440-50-8	
Lead	0.000056J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 16:57	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 16:57	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 16:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 16:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 16:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 16:57	7440-62-2	
Zinc	0.0020J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 16:57	7440-66-6	

7470 Mercury

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

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 11:47 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **84.0** mg/L 10.0 10.0 1 03/19/20 13:47

300.0 IC Anions 28 Days

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

Chloride	0.93J	mg/L	1.0	0.60	1		03/19/20 22:13	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 22:13	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.50	1		03/19/20 22:13	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-9 **Lab ID: 2630125019** Collected: 03/12/20 14:58 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **4.82** Std. Units 1 03/24/20 15:17

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **1.8** mg/L 1.0 0.14 1 03/24/20 18:06 03/25/20 18:40 7440-70-2

6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:03	7440-38-2	
Barium	0.044	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:03	7440-39-3	
Beryllium	0.00022J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:03	7440-41-7	
Boron	0.0058J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 17:03	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:03	7440-43-9	
Chromium	0.00045J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:03	7440-47-3	
Cobalt	0.00044J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:03	7440-48-4	
Copper	0.00031J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 17:03	7440-50-8	
Lead	0.00016J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:03	7439-92-1	
Nickel	0.0011J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 17:03	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:03	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 17:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:03	7440-62-2	
Zinc	0.0045J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 17:03	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 11:49 7439-97-6

2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **16.0** mg/L 10.0 10.0 1 03/19/20 13:47

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.9	mg/L	1.0	0.60	1	03/19/20 22:27	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1	03/19/20 22:27	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1	03/19/20 22:27	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWC-10 **Lab ID: 2630125020** Collected: 03/12/20 12:31 Received: 03/14/20 09:00 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	6.43	Std. Units			1		03/24/20 15:17		
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6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	18.6	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 18:43	7440-70-2	
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6020B MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:08	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:08	7440-39-3	
Beryllium	0.00017J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 17:08	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:08	7440-43-9	
Chromium	0.00047J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:08	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:08	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 17:08	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:08	7439-92-1	
Nickel	0.0015J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 17:08	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 17:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:08	7440-62-2	
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 17:08	7440-66-6	

7470 Mercury

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

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 11:51	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	63.0	mg/L	10.0	10.0	1		03/19/20 13:47		
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300.0 IC Anions 28 Days

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

Chloride	2.3	mg/L	1.0	0.60	1		03/19/20 22:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 22:41	16984-48-8	
Sulfate	1.3	mg/L	1.0	0.50	1		03/19/20 22:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-10R **Lab ID: 2630125021** Collected: 03/12/20 13:36 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.49	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	43.2	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 18:47	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:14	7440-38-2	
Barium	0.028	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:14	7440-41-7	
Boron	0.0050J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 17:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:14	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:14	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 17:14	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:14	7439-92-1	
Nickel	0.00043J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 17:14	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:14	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 17:14	7440-22-4	
Thallium	0.000054J	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:14	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:14	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 17:14	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 11:54	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		03/19/20 13:48		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	3.0	mg/L	1.0	0.60	1		03/19/20 22:55	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 22:55	16984-48-8	
Sulfate	0.99J	mg/L	1.0	0.50	1		03/19/20 22:55	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-11 **Lab ID: 2630125022** Collected: 03/12/20 14:56 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.30	Std. Units			1		03/24/20 15:17		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	8.0	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 18:50	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.0013J	mg/L	0.0030	0.00027	1	03/26/20 15:05	03/27/20 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/26/20 15:05	03/27/20 19:48	7440-38-2	
Barium	0.0086J	mg/L	0.010	0.00049	1	03/26/20 15:05	03/27/20 19:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/26/20 15:05	03/27/20 19:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/26/20 15:05	03/27/20 19:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/26/20 15:05	03/27/20 19:48	7440-43-9	
Chromium	0.00084J	mg/L	0.010	0.00039	1	03/26/20 15:05	03/27/20 19:48	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/26/20 15:05	03/27/20 19:48	7440-48-4	
Copper	0.00023J	mg/L	0.025	0.00019	1	03/26/20 15:05	03/27/20 19:48	7440-50-8	
Lead	0.000052J	mg/L	0.0050	0.000046	1	03/26/20 15:05	03/27/20 19:48	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/26/20 15:05	03/27/20 19:48	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/26/20 15:05	03/27/20 19:48	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/26/20 15:05	03/27/20 19:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/26/20 15:05	03/27/20 19:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/26/20 15:05	03/27/20 19:48	7440-62-2	
Zinc	0.0038J	mg/L	0.010	0.0015	1	03/26/20 15:05	03/27/20 19:48	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 11:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	96.0	mg/L	10.0	10.0	1		03/19/20 13:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.0	mg/L	1.0	0.60	1		03/20/20 06:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/20/20 06:54	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.50	1		03/20/20 06:54	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-11R **Lab ID: 2630125023** Collected: 03/12/20 16:09 Received: 03/14/20 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	7.60	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	32.5	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 18:54	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.0010J	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:26	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:26	7440-38-2	
Barium	0.021	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:26	7440-41-7	
Boron	0.0058J	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 17:26	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:26	7440-43-9	
Chromium	0.0042J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:26	7440-48-4	
Copper	0.00032J	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 17:26	7440-50-8	
Lead	0.000046J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:26	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 17:26	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 17:26	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:26	7440-62-2	
Zinc	0.0053J	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 17:26	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 11:58	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	125	mg/L	10.0	10.0	1		03/19/20 13:48		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	1.5	mg/L	1.0	0.60	1		03/20/20 07:08	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/20/20 07:08	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/20/20 07:08	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-12 **Lab ID: 2630125024** Collected: 03/12/20 16:26 Received: 03/14/20 09:00 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **6.17** Std. Units 1 03/24/20 15:17

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **8.1** mg/L 1.0 0.14 1 03/24/20 18:06 03/25/20 19:04 7440-70-2

6020B MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:31	7440-36-0
Arsenic	0.0053	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:31	7440-38-2
Barium	0.023	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:31	7440-39-3
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:31	7440-41-7
Boron	ND	mg/L	0.040	0.0049	1	03/23/20 20:01	03/25/20 17:31	7440-42-8
Cadmium	0.00089J	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:31	7440-43-9
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:31	7440-47-3
Cobalt	0.0031J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:31	7440-48-4
Copper	ND	mg/L	0.025	0.00019	1	03/23/20 20:01	03/25/20 17:31	7440-50-8
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:31	7439-92-1
Nickel	0.0022J	mg/L	0.010	0.00031	1	03/23/20 20:01	03/25/20 17:31	7440-02-0
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:31	7782-49-2
Silver	ND	mg/L	0.010	0.00028	1	03/23/20 20:01	03/25/20 17:31	7440-22-4
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:31	7440-28-0
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:31	7440-62-2
Zinc	0.015	mg/L	0.010	0.0015	1	03/23/20 20:01	03/25/20 17:31	7440-66-6

7470 Mercury

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

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 12:05 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **64.0** mg/L 10.0 10.0 1 03/19/20 13:48

300.0 IC Anions 28 Days

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

Chloride	0.84J	mg/L	1.0	0.60	1	03/20/20 07:22	16887-00-6
Fluoride	ND	mg/L	0.30	0.050	1	03/20/20 07:22	16984-48-8
Sulfate	ND	mg/L	1.0	0.50	1	03/20/20 07:22	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-5 **Lab ID: 2630125025** Collected: 03/16/20 12:39 Received: 03/18/20 15:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH	6.88	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium	12.1	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 16:49	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Atlanta, GA

Antimony	0.00031J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 17:32	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 17:32	7440-38-2	
Barium	0.024	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 17:32	7440-39-3	
Beryllium	0.00048J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 17:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/24/20 19:40	03/26/20 17:32	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 17:32	7440-43-9	
Chromium	0.00078J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 17:32	7440-47-3	
Cobalt	0.00031J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 17:32	7440-48-4	
Copper	0.012J	mg/L	0.025	0.00019	1	03/24/20 19:40	03/26/20 17:32	7440-50-8	
Lead	0.000051J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 17:32	7439-92-1	
Nickel	0.015	mg/L	0.010	0.00031	1	03/24/20 19:40	03/26/20 17:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 17:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/24/20 19:40	03/26/20 17:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 17:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/26/20 17:32	7440-62-2	
Zinc	0.047	mg/L	0.010	0.0015	1	03/24/20 19:40	03/26/20 17:32	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
 Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 01:40	03/26/20 12:08	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	20.0	mg/L	10.0	10.0	1		03/21/20 11:34		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

Chloride	0.67J	mg/L	1.0	0.60	1		03/21/20 21:20	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/21/20 21:20	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		03/21/20 21:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Sample: GWC-8Z **Lab ID: 2630125026** Collected: 03/16/20 10:46 Received: 03/18/20 15:37 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Atlanta, GA

Field pH **7.01** Std. Units 1 03/24/20 15:17

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
 Pace Analytical Services - Atlanta, GA

Calcium **19.4** mg/L 1.0 0.14 1 03/24/20 18:00 03/25/20 16:52 7440-70-2

6020B MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 17:38	7440-38-2	
Barium	0.027	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 17:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 17:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/24/20 19:40	03/26/20 17:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 17:38	7440-43-9	
Chromium	0.0015J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 17:38	7440-48-4	
Copper	0.00024J	mg/L	0.025	0.00019	1	03/24/20 19:40	03/26/20 17:38	7440-50-8	
Lead	0.00016J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 17:38	7439-92-1	
Nickel	0.00060J	mg/L	0.010	0.00031	1	03/24/20 19:40	03/26/20 17:38	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 17:38	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/24/20 19:40	03/26/20 17:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 17:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/26/20 17:38	7440-62-2	
Zinc	0.0073J	mg/L	0.010	0.0015	1	03/24/20 19:40	03/26/20 17:38	7440-66-6	B

7470 Mercury

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

Mercury ND mg/L 0.00050 0.00014 1 03/23/20 01:40 03/26/20 12:10 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C
 Pace Analytical Services - Atlanta, GA

Total Dissolved Solids **76.0** mg/L 10.0 10.0 1 03/21/20 11:34

300.0 IC Anions 28 Days

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

Chloride	1.3	mg/L	1.0	0.60	1	03/21/20 21:34	16887-00-6
Fluoride	ND	mg/L	0.30	0.050	1	03/21/20 21:34	16984-48-8
Sulfate	0.66J	mg/L	1.0	0.50	1	03/21/20 21:34	14808-79-8

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ANALYTICAL RESULTS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Sample: GWC-13RZ **Lab ID: 2630125027** Collected: 03/17/20 12:56 Received: 03/18/20 15:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data Analytical Method:
Pace Analytical Services - Atlanta, GA

Field pH	7.62	Std. Units			1		03/24/20 15:17		
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium	44.9	mg/L	1.0	0.14	1	03/25/20 13:27	03/25/20 20:08	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Atlanta, GA

Antimony	0.00090J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 17:43	7440-36-0	B
Arsenic	0.00067J	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 17:43	7440-38-2	
Barium	0.097	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 17:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 17:43	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0049	1	03/24/20 19:40	03/26/20 17:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 17:43	7440-43-9	
Chromium	0.0020J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 17:43	7440-48-4	
Copper	0.00045J	mg/L	0.025	0.00019	1	03/24/20 19:40	03/26/20 17:43	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 17:43	7439-92-1	
Nickel	0.00082J	mg/L	0.010	0.00031	1	03/24/20 19:40	03/26/20 17:43	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 17:43	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/24/20 19:40	03/26/20 17:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 17:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/26/20 17:43	7440-62-2	
Zinc	0.0057J	mg/L	0.010	0.0015	1	03/24/20 19:40	03/26/20 17:43	7440-66-6	B

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Atlanta, GA

Mercury	ND	mg/L	0.00050	0.00014	1	03/25/20 08:15	03/26/20 13:24	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	256	mg/L	10.0	10.0	1		03/21/20 11:36		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	7.7	mg/L	1.0	0.60	1		03/21/20 21:48	16887-00-6	
Fluoride	0.11J	mg/L	0.30	0.050	1		03/21/20 21:48	16984-48-8	
Sulfate	72.1	mg/L	1.0	0.50	1		03/21/20 21:48	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44827

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125001, 2630125002, 2630125003, 2630125004, 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014

METHOD BLANK: 206281

Matrix: Water

Associated Lab Samples: 2630125001, 2630125002, 2630125003, 2630125004, 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/24/20 12:12	

LABORATORY CONTROL SAMPLE: 206282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206283 206284

Parameter	Units	2630125001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	95	104	75-125	9	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44832 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Atlanta, GA
 Associated Lab Samples: 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022,
 2630125023, 2630125024, 2630125025, 2630125026

METHOD BLANK: 206295 Matrix: Water
 Associated Lab Samples: 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022,
 2630125023, 2630125024, 2630125025, 2630125026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/26/20 11:11	

LABORATORY CONTROL SAMPLE: 206296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206297 206298

Parameter	Units	2630020016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	101	97	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44903	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125027

METHOD BLANK: 206570 Matrix: Water

Associated Lab Samples: 2630125027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/26/20 13:19	

LABORATORY CONTROL SAMPLE: 206571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206572 206573

Parameter	Units	206572		206573		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0027	0.0026	109	103	75-125	5	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44838 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Laboratory: Pace Analytical Services - Atlanta, GA
 Associated Lab Samples: 2630125001, 2630125002, 2630125003

METHOD BLANK: 206317 Matrix: Water
 Associated Lab Samples: 2630125001, 2630125002, 2630125003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/24/20 16:42	

LABORATORY CONTROL SAMPLE: 206318

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206319 206320

Parameter	Units	2629875010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.6	1	1	3.7	3.6	109	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44863

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125004, 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014, 2630125015, 2630125016

METHOD BLANK: 206402

Matrix: Water

Associated Lab Samples: 2630125004, 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014, 2630125015, 2630125016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/24/20 20:19	

LABORATORY CONTROL SAMPLE: 206403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206404 206405

Parameter	Units	2630125004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	24.2	1	1	25.5	25.3	133	115	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44880

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022, 2630125023, 2630125024

METHOD BLANK: 206473

Matrix: Water

Associated Lab Samples: 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022, 2630125023, 2630125024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/25/20 17:48	

LABORATORY CONTROL SAMPLE: 206474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206475 206476

Parameter	Units	206475		206476		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	26.4	1	1	27.0	27.6	62	113	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44881 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Laboratory: Pace Analytical Services - Atlanta, GA
 Associated Lab Samples: 2630125025, 2630125026

METHOD BLANK: 206477 Matrix: Water
 Associated Lab Samples: 2630125025, 2630125026

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

LABORATORY CONTROL SAMPLE: 206478

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206479 206480

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

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44914

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125027

METHOD BLANK: 206611

Matrix: Water

Associated Lab Samples: 2630125027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/25/20 20:01	

LABORATORY CONTROL SAMPLE: 206612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206613 206614

Parameter	Units	206613		206614		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	40.1	1	40.5	41.2	36	112	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44725

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125001, 2630125002, 2630125003, 2630125004, 2630125008, 2630125009, 2630125010

METHOD BLANK: 205651

Matrix: Water

Associated Lab Samples: 2630125001, 2630125002, 2630125003, 2630125004, 2630125008, 2630125009, 2630125010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00029J	0.0030	0.00027	03/24/20 17:15	
Arsenic	mg/L	ND	0.0050	0.00035	03/24/20 17:15	
Barium	mg/L	ND	0.010	0.00049	03/24/20 17:15	
Beryllium	mg/L	ND	0.0030	0.000074	03/24/20 17:15	
Boron	mg/L	ND	0.040	0.0049	03/24/20 17:15	
Cadmium	mg/L	ND	0.0025	0.00011	03/24/20 17:15	
Chromium	mg/L	0.0013J	0.010	0.00039	03/24/20 17:15	
Cobalt	mg/L	ND	0.0050	0.00030	03/24/20 17:15	
Copper	mg/L	ND	0.025	0.00019	03/24/20 17:15	
Lead	mg/L	ND	0.0050	0.000046	03/24/20 17:15	
Nickel	mg/L	ND	0.010	0.00031	03/24/20 17:15	
Selenium	mg/L	ND	0.010	0.0013	03/24/20 17:15	
Silver	mg/L	ND	0.010	0.00028	03/24/20 17:15	
Thallium	mg/L	ND	0.0010	0.000052	03/24/20 17:15	
Vanadium	mg/L	ND	0.010	0.00071	03/24/20 17:15	
Zinc	mg/L	0.0018J	0.010	0.0015	03/24/20 17:15	

LABORATORY CONTROL SAMPLE: 205652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Silver	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205653		205654		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630003002 Result	MS Spike Conc.	MSD Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	4	20		
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	101	104	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20		
Boron	mg/L	ND	1	1	1.1	1.1	104	107	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.099	96	99	75-125	2	20		
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.10	94	99	75-125	6	20		
Silver	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	103	105	75-125	1	20		
Zinc	mg/L	ND	0.1	0.1	0.11	0.11	97	99	75-125	2	20		

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 44862 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Laboratory: Pace Analytical Services - Atlanta, GA
 Associated Lab Samples: 2630125013, 2630125014, 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125023, 2630125024

METHOD BLANK: 206398 Matrix: Water
 Associated Lab Samples: 2630125013, 2630125014, 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125023, 2630125024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/25/20 15:45	
Arsenic	mg/L	ND	0.0050	0.00035	03/25/20 15:45	
Barium	mg/L	ND	0.010	0.00049	03/25/20 15:45	
Beryllium	mg/L	ND	0.0030	0.000074	03/25/20 15:45	
Boron	mg/L	ND	0.040	0.0049	03/25/20 15:45	
Cadmium	mg/L	ND	0.0025	0.00011	03/25/20 15:45	
Chromium	mg/L	ND	0.010	0.00039	03/25/20 15:45	
Cobalt	mg/L	ND	0.0050	0.00030	03/25/20 15:45	
Copper	mg/L	ND	0.025	0.00019	03/25/20 15:45	
Lead	mg/L	ND	0.0050	0.000046	03/25/20 15:45	
Nickel	mg/L	ND	0.010	0.00031	03/25/20 15:45	
Selenium	mg/L	ND	0.010	0.0013	03/25/20 15:45	
Silver	mg/L	ND	0.010	0.00028	03/25/20 15:45	
Thallium	mg/L	ND	0.0010	0.000052	03/25/20 15:45	
Vanadium	mg/L	ND	0.010	0.00071	03/25/20 15:45	
Zinc	mg/L	ND	0.010	0.0015	03/25/20 15:45	

LABORATORY CONTROL SAMPLE: 206399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Silver	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	
Zinc	mg/L	0.1	0.095	95	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Parameter	Units	2630125013		206400		206401		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20			
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20			
Barium	mg/L	0.0095J	0.1	0.1	0.11	0.11	98	99	75-125	0	20			
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20			
Boron	mg/L	0.0070J	1	1	1.1	1.1	106	106	75-125	1	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20			
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20			
Copper	mg/L	0.0035J	0.1	0.1	0.11	0.11	102	105	75-125	3	20			
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	2	20			
Nickel	mg/L	0.0010J	0.1	0.1	0.10	0.10	101	104	75-125	3	20			
Selenium	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20			
Silver	mg/L	0.0013J	0.1	0.1	0.098	0.10	97	98	75-125	1	20			
Thallium	mg/L	0.000059J	0.1	0.1	0.098	0.10	98	100	75-125	2	20			
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20			
Zinc	mg/L	0.0033J	0.1	0.1	0.099	0.10	96	99	75-125	4	20			

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

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

Associated Lab Samples: 2630125025, 2630125026, 2630125027

METHOD BLANK: 206538 Matrix: Water

Associated Lab Samples: 2630125025, 2630125026, 2630125027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00027	03/26/20 16:09	
Arsenic	mg/L	ND	0.0050	0.00035	03/26/20 16:09	
Barium	mg/L	ND	0.010	0.00049	03/26/20 16:09	
Beryllium	mg/L	ND	0.0030	0.000074	03/26/20 16:09	
Boron	mg/L	ND	0.040	0.0049	03/26/20 16:09	
Cadmium	mg/L	ND	0.0025	0.00011	03/26/20 16:09	
Chromium	mg/L	ND	0.010	0.00039	03/26/20 16:09	
Cobalt	mg/L	ND	0.0050	0.00030	03/26/20 16:09	
Copper	mg/L	ND	0.025	0.00019	03/26/20 16:09	
Lead	mg/L	ND	0.0050	0.000046	03/26/20 16:09	
Nickel	mg/L	ND	0.010	0.00031	03/26/20 16:09	
Selenium	mg/L	ND	0.010	0.0013	03/26/20 16:09	
Silver	mg/L	ND	0.010	0.00028	03/26/20 16:09	
Thallium	mg/L	ND	0.0010	0.000052	03/26/20 16:09	
Vanadium	mg/L	ND	0.010	0.00071	03/26/20 16:09	
Zinc	mg/L	0.0019J	0.010	0.0015	03/26/20 16:09	

LABORATORY CONTROL SAMPLE: 206539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.11	106	80-120	
Zinc	mg/L	0.1	0.11	105	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Parameter	Units	206540		206541		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2630257002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	0.00042J	0.1	0.1	0.11	0.11	111	108	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.099	0.1	0.1	0.20	0.19	102	95	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Boron	mg/L	0.61	1	1	1.6	1.6	97	98	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Cobalt	mg/L	0.0040J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Copper	mg/L	0.00039J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Lead	mg/L	0.00010J	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Nickel	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	3	20	
Thallium	mg/L	0.000080J	0.1	0.1	0.096	0.095	95	95	75-125	0	20	
Vanadium	mg/L	0.0018J	0.1	0.1	0.11	0.11	107	105	75-125	2	20	
Zinc	mg/L	0.0026J	0.1	0.1	0.10	0.10	101	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44929 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125011, 2630125012

METHOD BLANK: 206699 Matrix: Water

Associated Lab Samples: 2630125011, 2630125012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/25/20 19:08	
Arsenic	mg/L	ND	0.0050	0.00035	03/25/20 19:08	
Barium	mg/L	ND	0.010	0.00049	03/25/20 19:08	
Beryllium	mg/L	ND	0.0030	0.000074	03/25/20 19:08	
Boron	mg/L	ND	0.040	0.0049	03/25/20 19:08	
Cadmium	mg/L	ND	0.0025	0.00011	03/25/20 19:08	
Chromium	mg/L	0.0011J	0.010	0.00039	03/25/20 19:08	
Cobalt	mg/L	ND	0.0050	0.00030	03/25/20 19:08	
Copper	mg/L	ND	0.025	0.00019	03/25/20 19:08	
Lead	mg/L	ND	0.0050	0.000046	03/25/20 19:08	
Nickel	mg/L	ND	0.010	0.00031	03/25/20 19:08	
Selenium	mg/L	ND	0.010	0.0013	03/25/20 19:08	
Silver	mg/L	ND	0.010	0.00028	03/25/20 19:08	
Thallium	mg/L	ND	0.0010	0.000052	03/25/20 19:08	
Vanadium	mg/L	ND	0.010	0.00071	03/25/20 19:08	
Zinc	mg/L	ND	0.010	0.0015	03/25/20 19:08	

LABORATORY CONTROL SAMPLE: 206700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	
Zinc	mg/L	0.1	0.096	96	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Parameter	Units	206701		206702		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2630143001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Antimony	mg/L	0.0020J	0.1	0.1	0.097	0.10	95	98	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	95	99	75-125	3	20	
Barium	mg/L	0.027	0.1	0.1	0.12	0.12	94	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	3	20	
Boron	mg/L	0.022J	1	1	1.0	1.0	98	100	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	3	20	
Chromium	mg/L	0.0014J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	4	20	
Copper	mg/L	0.00095J	0.1	0.1	0.096	0.099	95	98	75-125	3	20	
Lead	mg/L	0.000051J	0.1	0.1	0.093	0.095	93	95	75-125	3	20	
Nickel	mg/L	0.00032J	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.089	0.097	88	96	75-125	8	20	
Silver	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Thallium	mg/L	0.000076J	0.1	0.1	0.094	0.097	94	97	75-125	4	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	99	105	75-125	6	20	
Zinc	mg/L	0.0033J	0.1	0.1	0.095	0.098	92	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44960	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020B MET
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125022

METHOD BLANK: 206954 Matrix: Water
 Associated Lab Samples: 2630125022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/27/20 17:02	
Arsenic	mg/L	ND	0.0050	0.00035	03/27/20 17:02	
Barium	mg/L	ND	0.010	0.00049	03/27/20 17:02	
Beryllium	mg/L	ND	0.0030	0.000074	03/27/20 17:02	
Boron	mg/L	ND	0.040	0.0049	03/27/20 17:02	
Cadmium	mg/L	ND	0.0025	0.00011	03/27/20 17:02	
Chromium	mg/L	0.00046J	0.010	0.00039	03/27/20 17:02	
Cobalt	mg/L	ND	0.0050	0.00030	03/27/20 17:02	
Copper	mg/L	ND	0.025	0.00019	03/27/20 17:02	
Lead	mg/L	ND	0.0050	0.000046	03/27/20 17:02	
Nickel	mg/L	ND	0.010	0.00031	03/27/20 17:02	
Selenium	mg/L	ND	0.010	0.0013	03/27/20 17:02	
Silver	mg/L	ND	0.010	0.00028	03/27/20 17:02	
Thallium	mg/L	ND	0.0010	0.000052	03/27/20 17:02	
Vanadium	mg/L	ND	0.010	0.00071	03/27/20 17:02	
Zinc	mg/L	ND	0.010	0.0015	03/27/20 17:02	

LABORATORY CONTROL SAMPLE: 206955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.11	107	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	
Vanadium	mg/L	0.1	0.11	106	80-120	
Zinc	mg/L	0.1	0.10	105	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206956												206957	
Parameter	Units	2630426001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	2	20		
Barium	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	114	111	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.1	113	113	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	107	101	75-125	5	20		
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	105	100	75-125	4	20		
Copper	mg/L	ND	0.1	0.1	0.11	0.10	104	100	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20		
Nickel	mg/L	ND	0.1	0.1	0.11	0.10	103	99	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.097	101	96	75-125	5	20		
Silver	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	104	99	75-125	5	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	107	103	75-125	4	20		
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	100	96	75-125	4	20		

SAMPLE DUPLICATE: 206982

Parameter	Units	2630426003	Dup	RPD	Max RPD	Qualifiers
		Result	Result			
Antimony	mg/L	ND	ND		20	
Arsenic	mg/L	ND	0.0012J		20	
Barium	mg/L	46.8 ug/L	0.047	0	20	
Beryllium	mg/L	ND	0.00014J		20	
Boron	mg/L	ND	0.034J		20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	0.00093J		20	
Cobalt	mg/L	ND	0.022	1	20	
Copper	mg/L	ND	0.0038J		20	
Lead	mg/L	ND	0.00026J		20	
Nickel	mg/L	ND	0.012	2	20	
Selenium	mg/L	ND	ND		20	
Silver	mg/L	ND	ND		20	
Thallium	mg/L	ND	0.00015J		20	
Vanadium	mg/L	ND	0.0069J		20	
Zinc	mg/L	ND	0.011	1	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
Pace Project No.: 2630125

QC Batch:	44706	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014

LABORATORY CONTROL SAMPLE: 205508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	84-108	

SAMPLE DUPLICATE: 205509

Parameter	Units	2630143002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 205510

Parameter	Units	2630050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	205	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch:	44741	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125001, 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022, 2630125023, 2630125024

LABORATORY CONTROL SAMPLE: 205767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	364	91	84-108	

SAMPLE DUPLICATE: 205768

Parameter	Units	2630143004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	103	113	9	10	

SAMPLE DUPLICATE: 205769

Parameter	Units	2630125022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	96.0	104	8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch:	44802	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125002, 2630125003, 2630125004

LABORATORY CONTROL SAMPLE: 206142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	372	93	84-108	

SAMPLE DUPLICATE: 206143

Parameter	Units	2630287001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	143	134	6	10	H3

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

QC Batch: 44814	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630125025, 2630125026, 2630125027

LABORATORY CONTROL SAMPLE: 206250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	84-108	

SAMPLE DUPLICATE: 206251

Parameter	Units	2630152001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	360	362	1	10	

SAMPLE DUPLICATE: 206252

Parameter	Units	2630251004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	49.0	6	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch:	531041	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	2630125001, 2630125002, 2630125003, 2630125004		

METHOD BLANK: 2835530 Matrix: Water
 Associated Lab Samples: 2630125001, 2630125002, 2630125003, 2630125004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/18/20 03:57	
Fluoride	mg/L	ND	0.10	0.050	03/18/20 03:57	
Sulfate	mg/L	ND	1.0	0.50	03/18/20 03:57	

LABORATORY CONTROL SAMPLE: 2835531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	55.0	110	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	53.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2835532 2835533

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630098001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.0	50	50	50.7	56.4	97	109	90-110	11	10	R1	
Fluoride	mg/L	ND	2.5	2.5	1.7	2.0	67	78	90-110	16	10	M1, R1	
Sulfate	mg/L	1.1	50	50	48.6	55.5	95	109	90-110	13	10	R1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2835534 2835535

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630000006 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	11.0	50	50	60.0	60.0	98	98	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	1.8	1.8	71	72	90-110	2	10	M1	
Sulfate	mg/L	24.5	50	50	72.6	72.3	96	96	90-110	0	10		

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 531364 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014, 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022, 2630125023, 2630125024

METHOD BLANK: 2837011 Matrix: Water
 Associated Lab Samples: 2630125008, 2630125009, 2630125010, 2630125011, 2630125012, 2630125013, 2630125014, 2630125015, 2630125016, 2630125017, 2630125018, 2630125019, 2630125020, 2630125021, 2630125022, 2630125023, 2630125024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/19/20 16:37	
Fluoride	mg/L	ND	0.10	0.050	03/19/20 16:37	
Sulfate	mg/L	ND	1.0	0.50	03/19/20 16:37	

LABORATORY CONTROL SAMPLE: 2837012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837013 2837014

Parameter	Units	2630073003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	ND	50	50.4	51.3	101	102	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.7	2.7	105	107	90-110	2	10		
Sulfate	mg/L	ND	50	50.6	51.4	101	103	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837015 2837016

Parameter	Units	2630125015 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	1.3	50	51.9	52.8	101	103	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.6	2.7	104	107	90-110	2	10		
Sulfate	mg/L	2.1	50	53.3	54.2	102	104	90-110	2	10		

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QUALITY CONTROL DATA

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

QC Batch: 531787 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 2630125025, 2630125026, 2630125027

METHOD BLANK: 2839333 Matrix: Water
 Associated Lab Samples: 2630125025, 2630125026, 2630125027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/21/20 19:14	
Fluoride	mg/L	ND	0.10	0.050	03/21/20 19:14	
Sulfate	mg/L	ND	1.0	0.50	03/21/20 19:14	

LABORATORY CONTROL SAMPLE: 2839334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839335 2839336

Parameter	Units	2630143002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.4	53.0	105	106	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	51.4	52.0	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839337 2839338

Parameter	Units	2630255001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.8	50	50	57.5	58.2	105	107	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.6	2.6	101	102	90-110	2	10	
Sulfate	mg/L	98.6	50	50	138	136	78	74	90-110	2	10 M1	

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QUALIFIERS

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630125001	GWC-13				
2630125002	GWC-14Z				
2630125003	GWC-15R				
2630125004	GWC-15Z				
2630125008	GWA-1				
2630125009	GWA-2				
2630125010	GWA-2R				
2630125011	GWA-3				
2630125012	GWA-50				
2630125013	GWA-50R				
2630125014	GWA-4RZ				
2630125015	GWC-6				
2630125016	GWC-6RZ				
2630125017	GWC-7Z				
2630125018	GWC-8RR				
2630125019	GWC-9				
2630125020	GWC-10				
2630125021	GWC-10R				
2630125022	GWC-11				
2630125023	GWC-11R				
2630125024	GWC-12				
2630125025	GWC-5				
2630125026	GWC-8Z				
2630125027	GWC-13RZ				
2630125001	GWC-13	EPA 3010A	44838	EPA 6010D	44858
2630125002	GWC-14Z	EPA 3010A	44838	EPA 6010D	44858
2630125003	GWC-15R	EPA 3010A	44838	EPA 6010D	44858
2630125004	GWC-15Z	EPA 3010A	44863	EPA 6010D	44867
2630125008	GWA-1	EPA 3010A	44863	EPA 6010D	44867
2630125009	GWA-2	EPA 3010A	44863	EPA 6010D	44867
2630125010	GWA-2R	EPA 3010A	44863	EPA 6010D	44867
2630125011	GWA-3	EPA 3010A	44863	EPA 6010D	44867
2630125012	GWA-50	EPA 3010A	44863	EPA 6010D	44867
2630125013	GWA-50R	EPA 3010A	44863	EPA 6010D	44867
2630125014	GWA-4RZ	EPA 3010A	44863	EPA 6010D	44867
2630125015	GWC-6	EPA 3010A	44863	EPA 6010D	44867
2630125016	GWC-6RZ	EPA 3010A	44863	EPA 6010D	44867
2630125017	GWC-7Z	EPA 3010A	44880	EPA 6010D	44899
2630125018	GWC-8RR	EPA 3010A	44880	EPA 6010D	44899
2630125019	GWC-9	EPA 3010A	44880	EPA 6010D	44899
2630125020	GWC-10	EPA 3010A	44880	EPA 6010D	44899
2630125021	GWC-10R	EPA 3010A	44880	EPA 6010D	44899
2630125022	GWC-11	EPA 3010A	44880	EPA 6010D	44899
2630125023	GWC-11R	EPA 3010A	44880	EPA 6010D	44899
2630125024	GWC-12	EPA 3010A	44880	EPA 6010D	44899
2630125025	GWC-5	EPA 3010A	44881	EPA 6010D	44898
2630125026	GWC-8Z	EPA 3010A	44881	EPA 6010D	44898

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630125027	GWC-13RZ	EPA 3010A	44914	EPA 6010D	44927
2630125001	GWC-13	EPA 3005A	44725	EPA 6020B	44728
2630125002	GWC-14Z	EPA 3005A	44725	EPA 6020B	44728
2630125003	GWC-15R	EPA 3005A	44725	EPA 6020B	44728
2630125004	GWC-15Z	EPA 3005A	44725	EPA 6020B	44728
2630125008	GWA-1	EPA 3005A	44725	EPA 6020B	44728
2630125009	GWA-2	EPA 3005A	44725	EPA 6020B	44728
2630125010	GWA-2R	EPA 3005A	44725	EPA 6020B	44728
2630125011	GWA-3	EPA 3005A	44929	EPA 6020B	44930
2630125012	GWA-50	EPA 3005A	44929	EPA 6020B	44930
2630125013	GWA-50R	EPA 3005A	44862	EPA 6020B	44868
2630125014	GWA-4RZ	EPA 3005A	44862	EPA 6020B	44868
2630125015	GWC-6	EPA 3005A	44862	EPA 6020B	44868
2630125016	GWC-6RZ	EPA 3005A	44862	EPA 6020B	44868
2630125017	GWC-7Z	EPA 3005A	44862	EPA 6020B	44868
2630125018	GWC-8RR	EPA 3005A	44862	EPA 6020B	44868
2630125019	GWC-9	EPA 3005A	44862	EPA 6020B	44868
2630125020	GWC-10	EPA 3005A	44862	EPA 6020B	44868
2630125021	GWC-10R	EPA 3005A	44862	EPA 6020B	44868
2630125022	GWC-11	EPA 3005A	44960	EPA 6020B	44970
2630125023	GWC-11R	EPA 3005A	44862	EPA 6020B	44868
2630125024	GWC-12	EPA 3005A	44862	EPA 6020B	44868
2630125025	GWC-5	EPA 3005A	44893	EPA 6020B	44900
2630125026	GWC-8Z	EPA 3005A	44893	EPA 6020B	44900
2630125027	GWC-13RZ	EPA 3005A	44893	EPA 6020B	44900
2630125001	GWC-13	EPA 7470A	44827	EPA 7470A	44845
2630125002	GWC-14Z	EPA 7470A	44827	EPA 7470A	44845
2630125003	GWC-15R	EPA 7470A	44827	EPA 7470A	44845
2630125004	GWC-15Z	EPA 7470A	44827	EPA 7470A	44845
2630125008	GWA-1	EPA 7470A	44827	EPA 7470A	44845
2630125009	GWA-2	EPA 7470A	44827	EPA 7470A	44845
2630125010	GWA-2R	EPA 7470A	44827	EPA 7470A	44845
2630125011	GWA-3	EPA 7470A	44827	EPA 7470A	44845
2630125012	GWA-50	EPA 7470A	44827	EPA 7470A	44845
2630125013	GWA-50R	EPA 7470A	44827	EPA 7470A	44845
2630125014	GWA-4RZ	EPA 7470A	44827	EPA 7470A	44845
2630125015	GWC-6	EPA 7470A	44832	EPA 7470A	44846
2630125016	GWC-6RZ	EPA 7470A	44832	EPA 7470A	44846
2630125017	GWC-7Z	EPA 7470A	44832	EPA 7470A	44846
2630125018	GWC-8RR	EPA 7470A	44832	EPA 7470A	44846
2630125019	GWC-9	EPA 7470A	44832	EPA 7470A	44846
2630125020	GWC-10	EPA 7470A	44832	EPA 7470A	44846
2630125021	GWC-10R	EPA 7470A	44832	EPA 7470A	44846
2630125022	GWC-11	EPA 7470A	44832	EPA 7470A	44846

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN CELLS 1&2
 Pace Project No.: 2630125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630125023	GWC-11R	EPA 7470A	44832	EPA 7470A	44846
2630125024	GWC-12	EPA 7470A	44832	EPA 7470A	44846
2630125025	GWC-5	EPA 7470A	44832	EPA 7470A	44846
2630125026	GWC-8Z	EPA 7470A	44832	EPA 7470A	44846
2630125027	GWC-13RZ	EPA 7470A	44903	EPA 7470A	44921
2630125001	GWC-13	SM 2540C	44741		
2630125002	GWC-14Z	SM 2540C	44802		
2630125003	GWC-15R	SM 2540C	44802		
2630125004	GWC-15Z	SM 2540C	44802		
2630125008	GWA-1	SM 2540C	44706		
2630125009	GWA-2	SM 2540C	44706		
2630125010	GWA-2R	SM 2540C	44706		
2630125011	GWA-3	SM 2540C	44706		
2630125012	GWA-50	SM 2540C	44706		
2630125013	GWA-50R	SM 2540C	44706		
2630125014	GWA-4RZ	SM 2540C	44706		
2630125015	GWC-6	SM 2540C	44741		
2630125016	GWC-6RZ	SM 2540C	44741		
2630125017	GWC-7Z	SM 2540C	44741		
2630125018	GWC-8RR	SM 2540C	44741		
2630125019	GWC-9	SM 2540C	44741		
2630125020	GWC-10	SM 2540C	44741		
2630125021	GWC-10R	SM 2540C	44741		
2630125022	GWC-11	SM 2540C	44741		
2630125023	GWC-11R	SM 2540C	44741		
2630125024	GWC-12	SM 2540C	44741		
2630125025	GWC-5	SM 2540C	44814		
2630125026	GWC-8Z	SM 2540C	44814		
2630125027	GWC-13RZ	SM 2540C	44814		
2630125001	GWC-13	EPA 300.0 Rev 2.1 1993	531041		
2630125002	GWC-14Z	EPA 300.0 Rev 2.1 1993	531041		
2630125003	GWC-15R	EPA 300.0 Rev 2.1 1993	531041		
2630125004	GWC-15Z	EPA 300.0 Rev 2.1 1993	531041		
2630125008	GWA-1	EPA 300.0 Rev 2.1 1993	531364		
2630125009	GWA-2	EPA 300.0 Rev 2.1 1993	531364		
2630125010	GWA-2R	EPA 300.0 Rev 2.1 1993	531364		
2630125011	GWA-3	EPA 300.0 Rev 2.1 1993	531364		
2630125012	GWA-50	EPA 300.0 Rev 2.1 1993	531364		
2630125013	GWA-50R	EPA 300.0 Rev 2.1 1993	531364		
2630125014	GWA-4RZ	EPA 300.0 Rev 2.1 1993	531364		
2630125015	GWC-6	EPA 300.0 Rev 2.1 1993	531364		
2630125016	GWC-6RZ	EPA 300.0 Rev 2.1 1993	531364		
2630125017	GWC-7Z	EPA 300.0 Rev 2.1 1993	531364		
2630125018	GWC-8RR	EPA 300.0 Rev 2.1 1993	531364		
2630125019	GWC-9	EPA 300.0 Rev 2.1 1993	531364		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN CELLS 1&2

Pace Project No.: 2630125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630125020	GWC-10	EPA 300.0 Rev 2.1 1993	531364		
2630125021	GWC-10R	EPA 300.0 Rev 2.1 1993	531364		
2630125022	GWC-11	EPA 300.0 Rev 2.1 1993	531364		
2630125023	GWC-11R	EPA 300.0 Rev 2.1 1993	531364		
2630125024	GWC-12	EPA 300.0 Rev 2.1 1993	531364		
2630125025	GWC-5	EPA 300.0 Rev 2.1 1993	531787		
2630125026	GWC-8Z	EPA 300.0 Rev 2.1 1993	531787		
2630125027	GWC-13RZ	EPA 300.0 Rev 2.1 1993	531787		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a (FOU, POC, MOU) Agreement that must be completed before any

DATE: 1 04 1

Case No. 13-00000
 Date of Collection 1/13/13
 Location 13-00000
 Requested by 13-00000
 Requested for 13-00000
 Requested by Title 13-00000
 Requested for Title 13-00000
 Requested by Agency 13-00000
 Requested for Agency 13-00000
 Requested by Address 13-00000
 Requested for Address 13-00000
 Requested by Phone 13-00000
 Requested for Phone 13-00000
 Requested by Email 13-00000
 Requested for Email 13-00000

SAMPLE ID	Description of Sample	Quantity	Container	Date of Collection	Time of Collection	Analysis												Remarks		
						1	2	3	4	5	6	7	8	9	10	11	12			
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
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36															
37															
38															
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															

Signature of Collector [Signature]
 Signature of Requester [Signature]
 Date of Collection 1/13/13
 Location 13-00000
 Requested by 13-00000
 Requested for 13-00000
 Requested by Title 13-00000
 Requested for Title 13-00000
 Requested by Agency 13-00000
 Requested for Agency 13-00000
 Requested by Address 13-00000
 Requested for Address 13-00000
 Requested by Phone 13-00000
 Requested for Phone 13-00000
 Requested by Email 13-00000
 Requested for Email 13-00000



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a USPA document. All samples shall not be analyzed routinely.

Page 1 of 2

Section 1: Project Information
 Project Name:
 Location:
 Date:
 Section 2: Analytical Request Information
 Requested Analysis:
 Requested Method:
 Requested Laboratory:

Sample ID	Date	Time	Location	Collector	Container	Sample Type		Volume	Weight	Temperature	Remarks
						Container	Volume				
71001	12/21/05	08:30									
71002	12/21/05	09:15									
71003	12/21/05	10:00									
71004	12/21/05	10:45									
71005	12/21/05	11:30									

Section 3: Chain of Custody
 Name:
 Title:
 Signature:
 Date:



CHAIN OF CUSTODY / Analytical Request Department
The Chain-of-Custody is a LEGAL DOCUMENT. All persons have read and completed it correctly.

Section 1
General Information

Section 2
Sample Information

Form 1 of 1

Request No. _____
 Date of Collection _____
 Location of Collection _____
 Name of Collector _____
 Name of Requester _____
 Name of Analytical Lab _____
 Address of Analytical Lab _____
 City/State/Zip of Analytical Lab _____

SAMPLE ID	DATE COLLECTED	TIME COLLECTED	LOCATION COLLECTED	COLLECTOR	REQUESTER	ANALYSIS		LABORATORY	ANALYST
						TESTS	RESULTS		
32302714									

NO.	DESCRIPTION	DATE	TIME	INITIALS	REMARKS
1	Sample received				
2	Sample analyzed				
3	Sample returned				

NO.	DESCRIPTION	DATE	TIME	INITIALS	REMARKS
1	Sample received				
2	Sample analyzed				
3	Sample returned				

Signature of Collector: _____
 Signature of Requester: _____
 Signature of Analytical Lab: _____

[Handwritten signature]

CHAIN OF CUSTODY / ANALYTICAL REQUEST DOCUMENT
 The Chain of Custody is a Legal Document. All request forms must be completed accurately.

Page 1 of 1

Section 1: Request Information
 Section 2: Sample Information
 Section 3: Laboratory Information
 Section 4: Chain of Custody
 Section 5: Analytical Request
 Section 6: Laboratory Use Only

SAMPLE ID	Description	Quantity	Container		Disposition		Retention		Retention Period
			Material	Volume	Method	Time	Location	Person	
1	Hydrogen	1							2000
2	Hydrogen	1							2000
3	Hydrogen	1							2000
4	Hydrogen	1							2000
5	Hydrogen	1							2000
6	Hydrogen	1							2000
7	Hydrogen	1							2000
8	Hydrogen	1							2000
9	Hydrogen	1							2000
10	Hydrogen	1							2000

Requester	Requester Title	Requester Agency	Requester Address	Requester City	Requester State	Requester Zip	Requester Phone	Requester Fax	Requester Email
Requester Name	Requester Title	Requester Agency	Requester Address	Requester City	Requester State	Requester Zip	Requester Phone	Requester Fax	Requester Email

Signature of Requester: *[Handwritten Signature]*
 Date: *[Handwritten Date]*
 Signature of Laboratory: *[Handwritten Signature]*
 Date: *[Handwritten Date]*

CHAIN-OF-CUSTODY / Analytical Request Document
 This Chain-of-Custody + Analytical Request Document must be completed properly.

Date: _____
 Sample ID: _____
 Sample Name: _____
 Sample Location: _____
 Sample Quantity: _____
 Sample Container: _____
 Sample Condition: _____
 Sample Temperature: _____
 Sample Storage: _____
 Sample Handling: _____
 Sample Packaging: _____
 Sample Labeling: _____
 Sample Documentation: _____
 Sample Tracking: _____
 Sample Security: _____
 Sample Access: _____
 Sample Release: _____
 Sample Disposal: _____

Requested Analysis: _____
 Requested Method: _____
 Requested Laboratory: _____
 Requested Date: _____
 Requested Time: _____
 Requested Location: _____
 Requested Personnel: _____
 Requested Equipment: _____
 Requested Materials: _____
 Requested Reagents: _____
 Requested Standards: _____
 Requested Controls: _____
 Requested Calibration: _____
 Requested Validation: _____
 Requested Accreditation: _____
 Requested Certification: _____
 Requested Compliance: _____
 Requested Reporting: _____
 Requested Review: _____
 Requested Approval: _____
 Requested Signature: _____
 Requested Date: _____

SAMPLE ID	SAMPLE NAME	SAMPLE LOCATION	SAMPLE QUANTITY	SAMPLE CONTAINER	SAMPLE CONDITION	SAMPLE TEMPERATURE	SAMPLE STORAGE	SAMPLE HANDLING	SAMPLE PACKAGING	SAMPLE LABELING	SAMPLE DOCUMENTATION	SAMPLE TRACKING	SAMPLE SECURITY	SAMPLE ACCESS	SAMPLE RELEASE	SAMPLE DISPOSAL	REQUESTED ANALYSIS	REQUESTED METHOD	REQUESTED LABORATORY	REQUESTED DATE	REQUESTED TIME	REQUESTED LOCATION	REQUESTED PERSONNEL	REQUESTED EQUIPMENT	REQUESTED MATERIALS	REQUESTED REAGENTS	REQUESTED STANDARDS	REQUESTED CONTROLS	REQUESTED CALIBRATION	REQUESTED VALIDATION	REQUESTED ACCREDITATION	REQUESTED CERTIFICATION	REQUESTED COMPLIANCE	REQUESTED REPORTING	REQUESTED REVIEW	REQUESTED APPROVAL	REQUESTED SIGNATURE	REQUESTED DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Requested Signature: _____
 Requested Date: _____
 Requested Location: _____
 Requested Personnel: _____
 Requested Equipment: _____
 Requested Materials: _____
 Requested Reagents: _____
 Requested Standards: _____
 Requested Controls: _____
 Requested Calibration: _____
 Requested Validation: _____
 Requested Accreditation: _____
 Requested Certification: _____
 Requested Compliance: _____
 Requested Reporting: _____
 Requested Review: _____
 Requested Approval: _____
 Requested Signature: _____
 Requested Date: _____

CHAIN-OF-CUSTODY / ANALYTICAL REQUEST DOCUMENT
 This Chain-of-Custody is a legal document. An incorrect form may be inadmissible in court.

Page 1 of 1

Section 1
 Case No. 15-00000
 Date of Collection 11/18/2015

Section 2
 Collector Name William W. Walker
 Collector Title Officer

Section 3
 Page 1 of 1

SAMPLE ID
 Case: 15-00000
 Sub Case: 15-00000
 Sample ID: 15-00000

Item	Description	Quantity	Chain of Custody		Date	Signature	Title	Agency	Remarks
			By	Date					
1	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
2	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
3	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
4	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
5	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
6	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
7	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
8	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
9	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	
10	Sample ID	1	W. Walker	11/18/2015	5:00	[Signature]	Officer	15-00000	

Collector Name William W. Walker
 Collector Title Officer
 Collector Agency 15-00000
 Collector Address 15-00000
 Collector Phone 15-00000
 Collector Email 15-00000
 Collector Signature [Signature]
 Collector Date 11/18/2015
 Collector Time 5:00
 Collector Agency 15-00000
 Collector Address 15-00000
 Collector Phone 15-00000
 Collector Email 15-00000



March 30, 2020

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

RE: Project: PLANT BOWEN DUPS/BLANKS
Pace Project No.: 2630143

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 13, 2020 and March 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

cc: Michelle Barker, Wood E&I Solutions, Inc.
Kristen Jurinko
Lauren Petty, Southern Company Services, Inc.
Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630143001	DUP-1	Water	03/11/20 00:00	03/14/20 09:00
2630143002	FBL031120	Water	03/11/20 17:05	03/14/20 09:00
2630143003	EQBL031120	Water	03/11/20 17:01	03/14/20 09:00
2630143004	DUP-2	Water	03/12/20 00:00	03/14/20 09:00
2630143005	FBL031220	Water	03/12/20 14:40	03/14/20 09:00
2630143006	EQBL031220	Water	03/12/20 14:46	03/14/20 09:00
2630125005	DUP-3	Water	03/13/20 00:00	03/13/20 15:31
2630125006	FBL031320	Water	03/13/20 13:32	03/13/20 15:31
2630125007	EQBL031320	Water	03/13/20 13:37	03/13/20 15:31

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630143001	DUP-1	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630143002	FBL031120	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630143003	EQBL031120	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630143004	DUP-2	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630143005	FBL031220	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630143006	EQBL031220	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125005	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630125006	FBL031320	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630125007	EQBL031320	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630143001	DUP-1					
EPA 6010D	Calcium	47.2	mg/L	1.0	03/24/20 20:58	
EPA 6020B	Antimony	0.0020J	mg/L	0.0030	03/25/20 19:19	
EPA 6020B	Barium	0.027	mg/L	0.010	03/25/20 19:19	
EPA 6020B	Boron	0.022J	mg/L	0.040	03/25/20 19:19	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/25/20 19:19	B
EPA 6020B	Copper	0.00095J	mg/L	0.025	03/25/20 19:19	
EPA 6020B	Lead	0.000051J	mg/L	0.0050	03/25/20 19:19	
EPA 6020B	Nickel	0.00032J	mg/L	0.010	03/25/20 19:19	
EPA 6020B	Thallium	0.000076J	mg/L	0.0010	03/25/20 19:19	
EPA 6020B	Zinc	0.0033J	mg/L	0.010	03/25/20 19:19	
SM 2540C	Total Dissolved Solids	249	mg/L	10.0	03/17/20 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	0.67J	mg/L	1.0	03/20/20 20:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.30	03/20/20 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	32.1	mg/L	1.0	03/20/20 20:37	
2630143002	FBL031120					
EPA 6020B	Chromium	0.0020J	mg/L	0.010	03/24/20 18:53	B
EPA 6020B	Nickel	0.00081J	mg/L	0.010	03/24/20 18:53	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/24/20 18:53	B
2630143003	EQBL031120					
EPA 6020B	Chromium	0.00092J	mg/L	0.010	03/24/20 18:59	B
EPA 6020B	Zinc	0.0028J	mg/L	0.010	03/24/20 18:59	B
2630143004	DUP-2					
EPA 6010D	Calcium	31.3	mg/L	1.0	03/24/20 21:08	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/24/20 19:05	B
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	03/24/20 19:05	
EPA 6020B	Barium	0.020	mg/L	0.010	03/24/20 19:05	
EPA 6020B	Chromium	0.0048J	mg/L	0.010	03/24/20 19:05	B
EPA 6020B	Copper	0.00041J	mg/L	0.025	03/24/20 19:05	
EPA 6020B	Lead	0.000052J	mg/L	0.0050	03/24/20 19:05	
EPA 6020B	Vanadium	0.0010J	mg/L	0.010	03/24/20 19:05	
EPA 6020B	Zinc	0.0053J	mg/L	0.010	03/24/20 19:05	B
SM 2540C	Total Dissolved Solids	103	mg/L	10.0	03/19/20 13:45	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/20/20 10:38	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	03/20/20 10:38	
2630143005	FBL031220					
EPA 6020B	Chromium	0.0026J	mg/L	0.010	03/24/20 19:10	B
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/24/20 19:10	B
EPA 300.0 Rev 2.1 1993	Sulfate	0.99J	mg/L	1.0	03/20/20 10:52	
2630143006	EQBL031220					
EPA 6020B	Chromium	0.00077J	mg/L	0.010	03/24/20 19:16	B
EPA 6020B	Copper	0.00019J	mg/L	0.025	03/24/20 19:16	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/24/20 19:16	B
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	03/20/20 11:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630125005	DUP-3					
EPA 6010D	Calcium	24.7	mg/L	1.0	03/24/20 20:40	
EPA 6020B	Arsenic	0.00069J	mg/L	0.0050	03/24/20 18:30	
EPA 6020B	Barium	0.014	mg/L	0.010	03/24/20 18:30	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/24/20 18:30	B
EPA 6020B	Lead	0.000073J	mg/L	0.0050	03/24/20 18:30	
EPA 6020B	Vanadium	0.0011J	mg/L	0.010	03/24/20 18:30	
EPA 6020B	Zinc	0.0026J	mg/L	0.010	03/24/20 18:30	B
SM 2540C	Total Dissolved Solids	100	mg/L	10.0	03/20/20 19:12	
EPA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0	03/18/20 17:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.30	03/18/20 17:01	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	03/18/20 17:01	
2630125006	FBL031320					
EPA 6020B	Zinc	0.0022J	mg/L	0.010	03/24/20 18:36	B
EPA 300.0 Rev 2.1 1993	Fluoride	0.16J	mg/L	0.30	03/18/20 17:16	
2630125007	EQBL031320					
EPA 6020B	Chromium	0.0010J	mg/L	0.010	03/24/20 18:42	B
EPA 6020B	Zinc	0.0033J	mg/L	0.010	03/24/20 18:42	B
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.30	03/18/20 17:30	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: DUP-1	Lab ID: 2630143001	Collected: 03/11/20 00:00	Received: 03/14/20 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	47.2	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 20:58	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0020J	mg/L	0.0030	0.00027	1	03/25/20 15:06	03/25/20 19:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/25/20 15:06	03/25/20 19:19	7440-38-2	
Barium	0.027	mg/L	0.010	0.00049	1	03/25/20 15:06	03/25/20 19:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/25/20 15:06	03/25/20 19:19	7440-41-7	
Boron	0.022J	mg/L	0.040	0.0049	1	03/25/20 15:06	03/25/20 19:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/25/20 15:06	03/25/20 19:19	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/25/20 15:06	03/25/20 19:19	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/25/20 15:06	03/25/20 19:19	7440-48-4	
Copper	0.00095J	mg/L	0.025	0.00019	1	03/25/20 15:06	03/25/20 19:19	7440-50-8	
Lead	0.000051J	mg/L	0.0050	0.000046	1	03/25/20 15:06	03/25/20 19:19	7439-92-1	
Nickel	0.00032J	mg/L	0.010	0.00031	1	03/25/20 15:06	03/25/20 19:19	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/25/20 15:06	03/25/20 19:19	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/25/20 15:06	03/25/20 19:19	7440-22-4	
Thallium	0.000076J	mg/L	0.0010	0.000052	1	03/25/20 15:06	03/25/20 19:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/25/20 15:06	03/25/20 19:19	7440-62-2	
Zinc	0.0033J	mg/L	0.010	0.0015	1	03/25/20 15:06	03/25/20 19:19	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	249	mg/L	10.0	10.0	1		03/17/20 14:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	0.67J	mg/L	1.0	0.60	1		03/20/20 20:37	16887-00-6	
Fluoride	0.057J	mg/L	0.30	0.050	1		03/20/20 20:37	16984-48-8	
Sulfate	32.1	mg/L	1.0	0.50	1		03/20/20 20:37	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: FBL031120		Lab ID: 2630143002		Collected: 03/11/20 17:05	Received: 03/14/20 09:00	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:01	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:53	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:53	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:53	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:53	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:53	7440-43-9		
Chromium	0.0020J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:53	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:53	7440-48-4		
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:53	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:53	7439-92-1		
Nickel	0.00081J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:53	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:53	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:53	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:53	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:53	7440-62-2		
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:53	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:48	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/18/20 18:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/21/20 19:42	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/21/20 19:42	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/21/20 19:42	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

Sample: EQBL031120		Lab ID: 2630143003		Collected: 03/11/20 17:01		Received: 03/14/20 09:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:05	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:59	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:59	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:59	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:59	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:59	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:59	7440-43-9		
Chromium	0.00092J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:59	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:59	7440-48-4		
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:59	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:59	7439-92-1		
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:59	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:59	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:59	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:59	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:59	7440-62-2		
Zinc	0.0028J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:59	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/18/20 18:32			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	ND	mg/L	1.0	0.60	1		03/21/20 21:06	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/21/20 21:06	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/21/20 21:06	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Sample: DUP-2									
Lab ID: 2630143004									
Collected: 03/12/20 00:00 Received: 03/14/20 09:00 Matrix: Water									
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	31.3	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:08	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0011J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:05	7440-36-0	B
Arsenic	0.0012J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:05	7440-38-2	
Barium	0.020	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:05	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:05	7440-43-9	
Chromium	0.0048J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:05	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:05	7440-48-4	
Copper	0.00041J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:05	7440-50-8	
Lead	0.000052J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:05	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:05	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:05	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:05	7440-28-0	
Vanadium	0.0010J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:05	7440-62-2	
Zinc	0.0053J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:05	7440-66-6	B
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	103	mg/L	10.0	10.0	1		03/19/20 13:45		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.5	mg/L	1.0	0.60	1		03/20/20 10:38	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/20/20 10:38	16984-48-8	
Sulfate	3.2	mg/L	1.0	0.50	1		03/20/20 10:38	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: FBL031220	Lab ID: 2630143005	Collected: 03/12/20 14:40	Received: 03/14/20 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:12	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:10	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:10	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:10	7440-43-9	
Chromium	0.0026J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:10	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:10	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:10	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:10	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:10	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:10	7440-66-6	B
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/19/20 13:45		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/20/20 10:52	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/20/20 10:52	16984-48-8	
Sulfate	0.99J	mg/L	1.0	0.50	1		03/20/20 10:52	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: EQBL031220	Lab ID: 2630143006	Collected: 03/12/20 14:46	Received: 03/14/20 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:16	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:16	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:16	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:16	7440-43-9	
Chromium	0.00077J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:16	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:16	7440-48-4	
Copper	0.00019J	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:16	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:16	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:16	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:16	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:16	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:16	7440-66-6	B
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 13:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/19/20 13:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/20/20 11:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/20/20 11:06	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		03/20/20 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: DUP-3	Lab ID: 2630125005	Collected: 03/13/20 00:00	Received: 03/13/20 15:31	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	24.7	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 20:40	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:30	7440-36-0	
Arsenic	0.00069J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:30	7440-38-2	
Barium	0.014	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:30	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:30	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:30	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:30	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:30	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:30	7440-50-8	
Lead	0.000073J	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:30	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:30	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:30	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:30	7440-28-0	
Vanadium	0.0011J	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:30	7440-62-2	
Zinc	0.0026J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:30	7440-66-6	B
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	100	mg/L	10.0	10.0	1		03/20/20 19:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	0.86J	mg/L	1.0	0.60	1		03/18/20 17:01	16887-00-6	
Fluoride	0.40	mg/L	0.30	0.050	1		03/18/20 17:01	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		03/18/20 17:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: FBL031320	Lab ID: 2630125006	Collected: 03/13/20 13:32	Received: 03/13/20 15:31	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 20:44	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:36	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:36	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:36	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:36	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:36	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:36	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:36	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:36	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:36	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:36	7440-62-2	
Zinc	0.0022J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:36	7440-66-6	B
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:40	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/20/20 19:12		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/18/20 17:16	16887-00-6	
Fluoride	0.16J	mg/L	0.30	0.050	1		03/18/20 17:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/18/20 17:16	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Sample: EQBL031320	Lab ID: 2630125007	Collected: 03/13/20 13:37	Received: 03/13/20 15:31	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 20:54	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 18:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 18:42	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 18:42	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 18:42	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 18:42	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 18:42	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 18:42	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 18:42	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 18:42	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 18:42	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 18:42	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 18:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 18:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 18:42	7440-62-2	
Zinc	0.0033J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 18:42	7440-66-6	B
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/23/20 11:30	03/24/20 12:43	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/20/20 19:12		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		03/18/20 17:30	16887-00-6	
Fluoride	0.065J	mg/L	0.30	0.050	1		03/18/20 17:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/18/20 17:30	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44827

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143001, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

METHOD BLANK: 206281

Matrix: Water

Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143001, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/24/20 12:12	

LABORATORY CONTROL SAMPLE: 206282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206283 206284

Parameter	Units	2630125001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	95	104	75-125	9	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44863 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143001, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

METHOD BLANK: 206402 Matrix: Water
 Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143001, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/24/20 20:19	

LABORATORY CONTROL SAMPLE: 206403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206404 206405

Parameter	Units	2630125004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	24.2	1	1	25.5	25.3	133	115	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44725 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

METHOD BLANK: 205651 Matrix: Water
 Associated Lab Samples: 2630125005, 2630125006, 2630125007, 2630143002, 2630143003, 2630143004, 2630143005, 2630143006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00029J	0.0030	0.00027	03/24/20 17:15	
Arsenic	mg/L	ND	0.0050	0.00035	03/24/20 17:15	
Barium	mg/L	ND	0.010	0.00049	03/24/20 17:15	
Beryllium	mg/L	ND	0.0030	0.000074	03/24/20 17:15	
Boron	mg/L	ND	0.040	0.0049	03/24/20 17:15	
Cadmium	mg/L	ND	0.0025	0.00011	03/24/20 17:15	
Chromium	mg/L	0.0013J	0.010	0.00039	03/24/20 17:15	
Cobalt	mg/L	ND	0.0050	0.00030	03/24/20 17:15	
Copper	mg/L	ND	0.025	0.00019	03/24/20 17:15	
Lead	mg/L	ND	0.0050	0.000046	03/24/20 17:15	
Nickel	mg/L	ND	0.010	0.00031	03/24/20 17:15	
Selenium	mg/L	ND	0.010	0.0013	03/24/20 17:15	
Silver	mg/L	ND	0.010	0.00028	03/24/20 17:15	
Thallium	mg/L	ND	0.0010	0.000052	03/24/20 17:15	
Vanadium	mg/L	ND	0.010	0.00071	03/24/20 17:15	
Zinc	mg/L	0.0018J	0.010	0.0015	03/24/20 17:15	

LABORATORY CONTROL SAMPLE: 205652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Silver	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205653		205654		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630003002 Result	MS Spike Conc.	MSD Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	4	20		
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	101	104	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20		
Boron	mg/L	ND	1	1	1.1	1.1	104	107	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.099	96	99	75-125	2	20		
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.10	94	99	75-125	6	20		
Silver	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	103	105	75-125	1	20		
Zinc	mg/L	ND	0.1	0.1	0.11	0.11	97	99	75-125	2	20		

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44929 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2630143001

METHOD BLANK: 206699 Matrix: Water

Associated Lab Samples: 2630143001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/25/20 19:08	
Arsenic	mg/L	ND	0.0050	0.00035	03/25/20 19:08	
Barium	mg/L	ND	0.010	0.00049	03/25/20 19:08	
Beryllium	mg/L	ND	0.0030	0.000074	03/25/20 19:08	
Boron	mg/L	ND	0.040	0.0049	03/25/20 19:08	
Cadmium	mg/L	ND	0.0025	0.00011	03/25/20 19:08	
Chromium	mg/L	0.0011J	0.010	0.00039	03/25/20 19:08	
Cobalt	mg/L	ND	0.0050	0.00030	03/25/20 19:08	
Copper	mg/L	ND	0.025	0.00019	03/25/20 19:08	
Lead	mg/L	ND	0.0050	0.000046	03/25/20 19:08	
Nickel	mg/L	ND	0.010	0.00031	03/25/20 19:08	
Selenium	mg/L	ND	0.010	0.0013	03/25/20 19:08	
Silver	mg/L	ND	0.010	0.00028	03/25/20 19:08	
Thallium	mg/L	ND	0.0010	0.000052	03/25/20 19:08	
Vanadium	mg/L	ND	0.010	0.00071	03/25/20 19:08	
Zinc	mg/L	ND	0.010	0.0015	03/25/20 19:08	

LABORATORY CONTROL SAMPLE: 206700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	
Zinc	mg/L	0.1	0.096	96	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

Parameter	Units	206701		206702		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2630143001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Antimony	mg/L	0.0020J	0.1	0.1	0.097	0.10	95	98	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	95	99	75-125	3	20	
Barium	mg/L	0.027	0.1	0.1	0.12	0.12	94	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	3	20	
Boron	mg/L	0.022J	1	1	1.0	1.0	98	100	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	3	20	
Chromium	mg/L	0.0014J	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	4	20	
Copper	mg/L	0.00095J	0.1	0.1	0.096	0.099	95	98	75-125	3	20	
Lead	mg/L	0.000051J	0.1	0.1	0.093	0.095	93	95	75-125	3	20	
Nickel	mg/L	0.00032J	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.089	0.097	88	96	75-125	8	20	
Silver	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Thallium	mg/L	0.000076J	0.1	0.1	0.094	0.097	94	97	75-125	4	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	99	105	75-125	6	20	
Zinc	mg/L	0.0033J	0.1	0.1	0.095	0.098	92	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44653 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2630143001

LABORATORY CONTROL SAMPLE: 205174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	432	108	84-108	

SAMPLE DUPLICATE: 205175

Parameter	Units	2630133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	115	119	3	10	

SAMPLE DUPLICATE: 205176

Parameter	Units	2630064006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	390	368	6	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44706 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2630143002, 2630143003

LABORATORY CONTROL SAMPLE: 205508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	84-108	

SAMPLE DUPLICATE: 205509

Parameter	Units	2630143002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 205510

Parameter	Units	2630050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	205	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44741 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2630143004, 2630143005, 2630143006

LABORATORY CONTROL SAMPLE: 205767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	364	91	84-108	

SAMPLE DUPLICATE: 205768

Parameter	Units	2630143004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	103	113	9	10	

SAMPLE DUPLICATE: 205769

Parameter	Units	2630125022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	96.0	104	8	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 44802 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2630125005, 2630125006, 2630125007

LABORATORY CONTROL SAMPLE: 206142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	372	93	84-108	

SAMPLE DUPLICATE: 206143

Parameter	Units	2630287001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	143	134	6	10	H3

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

QC Batch: 531042 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2630125005, 2630125006, 2630125007

METHOD BLANK: 2835536 Matrix: Water

Associated Lab Samples: 2630125005, 2630125006, 2630125007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/18/20 11:21	
Fluoride	mg/L	ND	0.10	0.050	03/18/20 11:21	
Sulfate	mg/L	ND	1.0	0.50	03/18/20 11:21	

LABORATORY CONTROL SAMPLE: 2835537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2835538 2835539

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630000016 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	82.6	50	50	50	128	127	90	88	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.5	1.6	1.6	60	62	90-110	4	10	M1
Sulfate	mg/L	380	50	50	50	427	422	93	83	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2835540 2835541

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92469620004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.4	50	50	50	51.0	52.5	99	102	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	1.7	1.8	65	73	90-110	10	10	M1
Sulfate	mg/L	ND	50	50	50	49.3	52.4	98	104	90-110	6	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

QC Batch: 531369 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2630143004, 2630143005, 2630143006

METHOD BLANK: 2837032 Matrix: Water
 Associated Lab Samples: 2630143004, 2630143005, 2630143006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/20/20 07:36	
Fluoride	mg/L	ND	0.10	0.050	03/20/20 07:36	
Sulfate	mg/L	ND	1.0	0.50	03/20/20 07:36	

LABORATORY CONTROL SAMPLE: 2837033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837034 2837035

Parameter	Units	2630191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	ND	ND	22	14	90-110		10	M6
Fluoride	mg/L	ND	2.5	2.5	ND	ND	56	52	90-110		10	M6
Sulfate	mg/L	159000	50	50	169000	173000	20900	28400	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837036 2837037

Parameter	Units	92470103001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	25.5	50	50	95.2	84.6	139	118	90-110	12	10	M6, R1
Fluoride	mg/L	ND	2.5	2.5	3.2	3.6	41	59	90-110	13	10	M6, R1
Sulfate	mg/L	31.8	50	50	78.9	74.9	94	86	90-110	5	10	M6

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

QC Batch: 531658 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2630143001

METHOD BLANK: 2838406 Matrix: Water
 Associated Lab Samples: 2630143001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/20/20 13:22	
Fluoride	mg/L	ND	0.10	0.050	03/20/20 13:22	
Sulfate	mg/L	ND	1.0	0.50	03/20/20 13:22	

LABORATORY CONTROL SAMPLE: 2838407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2838408 2838409

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629874001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	9.3	50	50	50	60.9	61.7	103	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	2.7	104	107	90-110	2	10	
Sulfate	mg/L	13.8	50	50	50	64.6	65.4	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2838410 2838411

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92470321003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	44.5	50	50	50	94.4	95.1	100	101	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	0.76	0.79	30	31	90-110	4	10 M1	
Sulfate	mg/L	ND	50	50	50	50.8	51.6	101	103	90-110	2	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

QC Batch: 531787 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2630143002, 2630143003

METHOD BLANK: 2839333 Matrix: Water
 Associated Lab Samples: 2630143002, 2630143003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/21/20 19:14	
Fluoride	mg/L	ND	0.10	0.050	03/21/20 19:14	
Sulfate	mg/L	ND	1.0	0.50	03/21/20 19:14	

LABORATORY CONTROL SAMPLE: 2839334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839335 2839336

Parameter	Units	2630143002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/L	ND	50	50	52.4	53.0	105	106	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	51.4	52.0	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839337 2839338

Parameter	Units	2630255001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/L	4.8	50	50	57.5	58.2	105	107	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.6	2.6	101	102	90-110	2	10	
Sulfate	mg/L	98.6	50	50	138	136	78	74	90-110	2	10 M1	

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QUALIFIERS

Project: PLANT BOWEN DUPS/BLANKS

Pace Project No.: 2630143

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN DUPS/BLANKS
 Pace Project No.: 2630143

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630125005	DUP-3	EPA 3010A	44863	EPA 6010D	44867
2630125006	FBL031320	EPA 3010A	44863	EPA 6010D	44867
2630125007	EQBL031320	EPA 3010A	44863	EPA 6010D	44867
2630143001	DUP-1	EPA 3010A	44863	EPA 6010D	44867
2630143002	FBL031120	EPA 3010A	44863	EPA 6010D	44867
2630143003	EQBL031120	EPA 3010A	44863	EPA 6010D	44867
2630143004	DUP-2	EPA 3010A	44863	EPA 6010D	44867
2630143005	FBL031220	EPA 3010A	44863	EPA 6010D	44867
2630143006	EQBL031220	EPA 3010A	44863	EPA 6010D	44867
2630125005	DUP-3	EPA 3005A	44725	EPA 6020B	44728
2630125006	FBL031320	EPA 3005A	44725	EPA 6020B	44728
2630125007	EQBL031320	EPA 3005A	44725	EPA 6020B	44728
2630143001	DUP-1	EPA 3005A	44929	EPA 6020B	44930
2630143002	FBL031120	EPA 3005A	44725	EPA 6020B	44728
2630143003	EQBL031120	EPA 3005A	44725	EPA 6020B	44728
2630143004	DUP-2	EPA 3005A	44725	EPA 6020B	44728
2630143005	FBL031220	EPA 3005A	44725	EPA 6020B	44728
2630143006	EQBL031220	EPA 3005A	44725	EPA 6020B	44728
2630125005	DUP-3	EPA 7470A	44827	EPA 7470A	44845
2630125006	FBL031320	EPA 7470A	44827	EPA 7470A	44845
2630125007	EQBL031320	EPA 7470A	44827	EPA 7470A	44845
2630143001	DUP-1	EPA 7470A	44827	EPA 7470A	44845
2630143002	FBL031120	EPA 7470A	44827	EPA 7470A	44845
2630143003	EQBL031120	EPA 7470A	44827	EPA 7470A	44845
2630143004	DUP-2	EPA 7470A	44827	EPA 7470A	44845
2630143005	FBL031220	EPA 7470A	44827	EPA 7470A	44845
2630143006	EQBL031220	EPA 7470A	44827	EPA 7470A	44845
2630125005	DUP-3	SM 2540C	44802		
2630125006	FBL031320	SM 2540C	44802		
2630125007	EQBL031320	SM 2540C	44802		
2630143001	DUP-1	SM 2540C	44653		
2630143002	FBL031120	SM 2540C	44706		
2630143003	EQBL031120	SM 2540C	44706		
2630143004	DUP-2	SM 2540C	44741		
2630143005	FBL031220	SM 2540C	44741		
2630143006	EQBL031220	SM 2540C	44741		
2630125005	DUP-3	EPA 300.0 Rev 2.1 1993	531042		
2630125006	FBL031320	EPA 300.0 Rev 2.1 1993	531042		
2630125007	EQBL031320	EPA 300.0 Rev 2.1 1993	531042		
2630143001	DUP-1	EPA 300.0 Rev 2.1 1993	531658		
2630143002	FBL031120	EPA 300.0 Rev 2.1 1993	531787		
2630143003	EQBL031120	EPA 300.0 Rev 2.1 1993	531787		
2630143004	DUP-2	EPA 300.0 Rev 2.1 1993	531369		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN DUPS/BLANKS
Pace Project No.: 2630143

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630143005	FBL031220	EPA 300.0 Rev 2.1 1993	531369		
2630143006	EQBL031220	EPA 300.0 Rev 2.1 1993	531369		

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CHAIN OF CUSTODY / Analytical Request Document
 The Chain of Custody is a legal document. All users have read the document and I just

Lab # _____ Date of Collection _____ Date of Analysis _____

Client Name: _____
 Client Address: _____
 Client Phone: _____
 Client Email: _____
 Client Signature: _____
 Date of Collection: _____
 Date of Analysis: _____

SAMPLE ID
 SAMPLE NO. _____
 ANALYST NAME _____

Sample ID	Description	Quantity	Unit	Collection		Analysis		Date of Analysis	Signature
				Date	Time	Date	Time		
Sample 1
Sample 2

Remarks: _____
 Signature: _____
 Date: _____

Signature: _____
 Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a Critical Document. All requests must be completed accurately.

Sample # _____
 Sample ID _____
 Sample Name _____
 Sample Location _____
 Sample Date _____
 Sample Time _____
 Sample Type _____
 Sample Quantity _____
 Sample Container _____
 Sample Packaging _____
 Sample Storage _____
 Sample Handling _____
 Sample Transport _____
 Sample Delivery _____
 Sample Receipt _____
 Sample Analysis _____
 Sample Report _____
 Sample Archival _____
 Sample Disposal _____

SAMPLE ID	SAMPLE NAME	SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	SAMPLE TYPE	SAMPLE QUANTITY	SAMPLE CONTAINER	SAMPLE PACKAGING	SAMPLE STORAGE	SAMPLE HANDLING	SAMPLE TRANSPORT	SAMPLE DELIVERY	SAMPLE RECEIPT	SAMPLE ANALYSIS	SAMPLE REPORT	SAMPLE ARCHIVAL	SAMPLE DISPOSAL
GROUP 3																	
F D000000																	
LAB000000																	

Submitted by: _____
 Submitted Date: _____
 Submitted Time: _____
 Submitted Location: _____
 Submitted Contact: _____
 Submitted Phone: _____
 Submitted Email: _____
 Submitted Address: _____
 Submitted City: _____
 Submitted State: _____
 Submitted Zip: _____
 Submitted Country: _____
 Submitted Notes: _____
 Submitted Signature: _____
 Submitted Title: _____
 Submitted Organization: _____
 Submitted Project: _____
 Submitted Reference: _____
 Submitted Comments: _____
 Submitted Attachments: _____
 Submitted Other: _____



March 23, 2020

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

RE: Project: PLANT BOWEN LF
Pace Project No.: 2629786

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2020 and March 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

cc: Michelle Barker, Wood E&I Solutions, Inc.
Kristen Jurinko
Lauren Petty, Southern Company Services, Inc.
Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Greg Wrenn, Wood PLC



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CERTIFICATIONS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2629786001	GWA-51RZ	Water	03/03/20 09:58	03/04/20 09:30
2629786002	GWA-54	Water	03/03/20 13:23	03/04/20 09:30
2629786003	GWA-55	Water	03/03/20 15:12	03/04/20 09:30
2629786004	GWC-21R	Water	03/03/20 16:31	03/04/20 09:30
2629786005	GWC-22R	Water	03/03/20 14:08	03/04/20 09:30
2629786006	GWC-24R	Water	03/03/20 12:13	03/04/20 09:30
2629786007	GWC-25R	Water	03/03/20 10:21	03/04/20 09:30
2629786008	GWA-36	Water	03/02/20 11:26	03/06/20 11:25
2629786009	GWA-36R	Water	03/02/20 11:20	03/06/20 11:25
2629786010	GWA-37	Water	03/02/20 14:37	03/06/20 11:25
2629786011	GWA-38	Water	03/02/20 13:22	03/06/20 11:25
2629786012	GWA-52	Water	03/02/20 16:31	03/06/20 11:25
2629786013	FBL030220	Water	03/02/20 17:28	03/06/20 11:25
2629786014	EQBL030220	Water	03/02/20 17:31	03/06/20 11:25
2629786015	DUP-1	Water	03/02/20 00:00	03/06/20 11:25
2629786016	GWA-53	Water	03/04/20 11:16	03/06/20 11:25
2629786017	GWA-53R	Water	03/04/20 12:13	03/06/20 11:25
2629786018	GWA-55R	Water	03/04/20 10:49	03/06/20 11:25
2629786019	GWA-56	Water	03/04/20 13:08	03/06/20 11:25
2629786020	GWC-16R	Water	03/04/20 16:10	03/06/20 11:25
2629786021	GWC-19R	Water	03/04/20 16:20	03/06/20 11:25
2629786022	FBL030420	Water	03/04/20 16:37	03/06/20 11:25
2629786023	EQBL030420	Water	03/04/20 16:44	03/06/20 11:25
2629786024	DUP-2	Water	03/04/20 00:00	03/06/20 11:25
2629786025	GWC-17R	Water	03/05/20 12:30	03/06/20 11:25
2629786026	GWC-18R	Water	03/05/20 15:35	03/06/20 11:25
2629786027	GWC-20R	Water	03/05/20 14:31	03/06/20 11:25
2629786028	GWC-23R	Water	03/05/20 09:55	03/06/20 11:25
2629786029	FBL030520	Water	03/05/20 17:05	03/06/20 11:25
2629786030	EQBL030520	Water	03/05/20 17:12	03/06/20 11:25
2629786031	DUP-3	Water	03/05/20 00:00	03/06/20 11:25
2629786032	GWC-18	Water	03/06/20 12:11	03/06/20 17:30
2629786033	SPRING	Water	03/06/20 09:15	03/06/20 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629786001	GWA-51RZ	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786002	GWA-54	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786003	GWA-55	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786004	GWC-21R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786005	GWC-22R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786006	GWC-24R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786007	GWC-25R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786008	GWA-36	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629786009	GWA-36R	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786010	GWA-37	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786011	GWA-38	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629786012	GWA-52	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
2629786013	FBL030220	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
2629786014	EQBL030220	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786015	DUP-1	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629786016	GWA-53	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786017	GWA-53R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786018	GWA-55R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786019	GWA-56	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786020	GWC-16R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786021	GWC-19R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786022	FBL030420	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786023	EQBL030420	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629786024	DUP-2	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786025	GWC-17R	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2629786026	GWC-18R	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
2629786027	GWC-20R	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629786028	GWC-23R	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2629786029	FBL030520	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786030	EQBL030520	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629786031	DUP-3	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786032	GWC-18	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629786033	SPRING	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF
Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786001	GWA-51RZ					
	Field pH	7.73	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	47.6	mg/L	1.0	03/11/20 20:25	
EPA 6020B	Arsenic	0.00073J	mg/L	0.0050	03/11/20 19:17	
EPA 6020B	Barium	0.017	mg/L	0.010	03/11/20 19:17	
EPA 6020B	Boron	0.0096J	mg/L	0.040	03/11/20 19:17	B
EPA 6020B	Copper	0.00041J	mg/L	0.025	03/11/20 19:17	
EPA 6020B	Lead	0.000051J	mg/L	0.0050	03/11/20 19:17	
EPA 6020B	Selenium	0.0053J	mg/L	0.010	03/11/20 19:17	
EPA 6020B	Thallium	0.00012J	mg/L	0.0010	03/11/20 19:17	
EPA 6020B	Vanadium	0.00091J	mg/L	0.010	03/11/20 19:17	
EPA 6020B	Zinc	0.0035J	mg/L	0.010	03/11/20 19:17	
SM 2540C	Total Dissolved Solids	211	mg/L	10.0	03/10/20 11:52	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/10/20 22:16	
EPA 300.0 Rev 2.1 1993	Sulfate	21.5	mg/L	1.0	03/10/20 22:16	
2629786002	GWA-54					
	Field pH	7.59	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	27.1	mg/L	1.0	03/11/20 20:35	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/11/20 19:40	
EPA 6020B	Barium	0.031	mg/L	0.010	03/11/20 19:40	
EPA 6020B	Boron	0.0084J	mg/L	0.040	03/11/20 19:40	B
EPA 6020B	Chromium	0.0017J	mg/L	0.010	03/11/20 19:40	B
EPA 6020B	Copper	0.00025J	mg/L	0.025	03/11/20 19:40	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	03/11/20 19:40	
EPA 6020B	Thallium	0.000079J	mg/L	0.0010	03/11/20 19:40	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/11/20 19:40	
SM 2540C	Total Dissolved Solids	91.0	mg/L	10.0	03/10/20 11:52	
EPA 300.0 Rev 2.1 1993	Chloride	0.77J	mg/L	1.0	03/10/20 22:30	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/10/20 22:30	
2629786003	GWA-55					
	Field pH	6.95	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	40.1	mg/L	1.0	03/11/20 20:39	
EPA 6020B	Barium	0.023	mg/L	0.010	03/11/20 19:57	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/11/20 19:57	B
EPA 6020B	Chromium	0.00085J	mg/L	0.010	03/11/20 19:57	B
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	03/11/20 19:57	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	03/11/20 19:57	
EPA 6020B	Nickel	0.00061J	mg/L	0.010	03/11/20 19:57	
EPA 6020B	Selenium	0.0025J	mg/L	0.010	03/11/20 19:57	
EPA 6020B	Thallium	0.000065J	mg/L	0.0010	03/11/20 19:57	
EPA 6020B	Zinc	0.0050J	mg/L	0.010	03/11/20 19:57	
SM 2540C	Total Dissolved Solids	210	mg/L	10.0	03/10/20 11:52	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/10/20 22:44	
EPA 300.0 Rev 2.1 1993	Sulfate	29.0	mg/L	1.0	03/10/20 22:44	
2629786004	GWC-21R					
	Field pH	7.10	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	70.2	mg/L	1.0	03/11/20 20:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786004	GWC-21R					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	03/11/20 20:03	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/11/20 20:03	
EPA 6020B	Barium	0.022	mg/L	0.010	03/11/20 20:03	
EPA 6020B	Boron	0.0096J	mg/L	0.040	03/11/20 20:03	B
EPA 6020B	Chromium	0.00058J	mg/L	0.010	03/11/20 20:03	B
EPA 6020B	Copper	0.00049J	mg/L	0.025	03/11/20 20:03	
EPA 6020B	Nickel	0.00099J	mg/L	0.010	03/11/20 20:03	
EPA 6020B	Thallium	0.000071J	mg/L	0.0010	03/11/20 20:03	
EPA 6020B	Vanadium	0.00085J	mg/L	0.010	03/11/20 20:03	
EPA 6020B	Zinc	0.0044J	mg/L	0.010	03/11/20 20:03	
SM 2540C	Total Dissolved Solids	292	mg/L	10.0	03/10/20 11:53	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/10/20 22:58	
EPA 300.0 Rev 2.1 1993	Sulfate	11.3	mg/L	1.0	03/10/20 22:58	
2629786005	GWC-22R					
	Field pH	7.15	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	37.2	mg/L	1.0	03/11/20 20:46	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	03/11/20 20:08	
EPA 6020B	Barium	0.044	mg/L	0.010	03/11/20 20:08	
EPA 6020B	Boron	0.0066J	mg/L	0.040	03/11/20 20:08	B
EPA 6020B	Chromium	0.00057J	mg/L	0.010	03/11/20 20:08	B
EPA 6020B	Cobalt	0.00078J	mg/L	0.0050	03/11/20 20:08	
EPA 6020B	Copper	0.00022J	mg/L	0.025	03/11/20 20:08	
EPA 6020B	Lead	0.000059J	mg/L	0.0050	03/11/20 20:08	
EPA 6020B	Nickel	0.0010J	mg/L	0.010	03/11/20 20:08	
EPA 6020B	Thallium	0.000072J	mg/L	0.0010	03/11/20 20:08	
EPA 6020B	Zinc	0.0029J	mg/L	0.010	03/11/20 20:08	
SM 2540C	Total Dissolved Solids	181	mg/L	10.0	03/10/20 11:53	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/10/20 23:12	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/10/20 23:12	
2629786006	GWC-24R					
	Field pH	7.55	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	33.3	mg/L	1.0	03/11/20 20:49	
EPA 6020B	Barium	0.020	mg/L	0.010	03/11/20 20:14	
EPA 6020B	Chromium	0.00052J	mg/L	0.010	03/11/20 20:14	B
EPA 6020B	Copper	0.00097J	mg/L	0.025	03/11/20 20:14	
EPA 6020B	Lead	0.000057J	mg/L	0.0050	03/11/20 20:14	
EPA 6020B	Vanadium	0.0011J	mg/L	0.010	03/11/20 20:14	
EPA 6020B	Zinc	0.0033J	mg/L	0.010	03/11/20 20:14	
SM 2540C	Total Dissolved Solids	146	mg/L	10.0	03/10/20 11:53	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/10/20 23:26	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/10/20 23:26	
2629786007	GWC-25R					
	Field pH	7.56	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	37.6	mg/L	1.0	03/11/20 20:53	
EPA 6020B	Barium	0.015	mg/L	0.010	03/11/20 20:20	
EPA 6020B	Chromium	0.00078J	mg/L	0.010	03/11/20 20:20	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF
Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786007	GWC-25R					
EPA 6020B	Copper	0.00027J	mg/L	0.025	03/11/20 20:20	
EPA 6020B	Lead	0.000059J	mg/L	0.0050	03/11/20 20:20	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/11/20 20:20	
SM 2540C	Total Dissolved Solids	183	mg/L	10.0	03/10/20 11:53	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/11/20 00:08	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/11/20 00:08	
2629786008	GWA-36					
	Field pH	6.58	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	12.5	mg/L	1.0	03/18/20 19:42	
EPA 6020B	Barium	0.019	mg/L	0.010	03/16/20 16:21	
EPA 6020B	Beryllium	0.00024J	mg/L	0.0030	03/16/20 16:21	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/16/20 16:21	
EPA 6020B	Cadmium	0.0012J	mg/L	0.0025	03/16/20 16:21	
EPA 6020B	Lead	0.000052J	mg/L	0.0050	03/16/20 16:21	
EPA 6020B	Nickel	0.00071J	mg/L	0.010	03/16/20 16:21	
EPA 6020B	Zinc	0.54	mg/L	0.010	03/16/20 16:21	
SM 2540C	Total Dissolved Solids	65.0	mg/L	10.0	03/09/20 22:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/13/20 04:36	
2629786009	GWA-36R					
	Field pH	7.24	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	35.2	mg/L	1.0	03/18/20 19:46	
EPA 6020B	Barium	0.024	mg/L	0.010	03/16/20 16:27	
EPA 6020B	Beryllium	0.00015J	mg/L	0.0030	03/16/20 16:27	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/16/20 16:27	
EPA 6020B	Cadmium	0.00018J	mg/L	0.0025	03/16/20 16:27	
EPA 6020B	Chromium	0.00047J	mg/L	0.010	03/16/20 16:27	
EPA 6020B	Copper	0.00043J	mg/L	0.025	03/16/20 16:27	
EPA 6020B	Lead	0.00031J	mg/L	0.0050	03/16/20 16:27	
EPA 6020B	Nickel	0.00051J	mg/L	0.010	03/16/20 16:27	
EPA 6020B	Zinc	0.056	mg/L	0.010	03/16/20 16:27	
SM 2540C	Total Dissolved Solids	170	mg/L	10.0	03/09/20 22:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/12/20 17:45	
EPA 300.0 Rev 2.1 1993	Sulfate	7.9	mg/L	1.0	03/12/20 17:45	
2629786010	GWA-37					
	Field pH	5.52	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	0.77J	mg/L	1.0	03/18/20 19:49	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	03/16/20 16:48	
EPA 6020B	Arsenic	0.00053J	mg/L	0.0050	03/16/20 16:48	B
EPA 6020B	Barium	0.0050J	mg/L	0.010	03/16/20 16:48	
EPA 6020B	Boron	0.0052J	mg/L	0.040	03/16/20 16:48	
EPA 6020B	Copper	0.0068J	mg/L	0.025	03/16/20 16:48	
EPA 6020B	Nickel	0.0079J	mg/L	0.010	03/16/20 16:48	
EPA 6020B	Vanadium	0.00074J	mg/L	0.010	03/16/20 16:48	
EPA 6020B	Zinc	0.0063J	mg/L	0.010	03/16/20 16:48	
EPA 300.0 Rev 2.1 1993	Chloride	0.78J	mg/L	1.0	03/12/20 18:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786011	GWA-38					
	Field pH	5.49	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/18/20 19:53	
EPA 6020B	Arsenic	0.00059J	mg/L	0.0050	03/16/20 16:53	B
EPA 6020B	Barium	0.012	mg/L	0.010	03/16/20 16:53	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/16/20 16:53	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/16/20 16:53	
EPA 6020B	Copper	0.00019J	mg/L	0.025	03/16/20 16:53	
EPA 6020B	Nickel	0.0010J	mg/L	0.010	03/16/20 16:53	
EPA 6020B	Vanadium	0.0014J	mg/L	0.010	03/16/20 16:53	
EPA 6020B	Zinc	0.0032J	mg/L	0.010	03/16/20 16:53	
SM 2540C	Total Dissolved Solids	32.0	mg/L	10.0	03/09/20 22:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/12/20 18:41	
EPA 300.0 Rev 2.1 1993	Sulfate	0.50J	mg/L	1.0	03/12/20 18:41	
2629786012	GWA-52					
	Field pH	7.44	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	33.7	mg/L	1.0	03/18/20 19:56	
EPA 6020B	Barium	0.023	mg/L	0.010	03/16/20 16:59	
EPA 6020B	Boron	0.0070J	mg/L	0.040	03/16/20 16:59	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	03/16/20 16:59	
EPA 6020B	Copper	0.00024J	mg/L	0.025	03/16/20 16:59	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/16/20 16:59	
SM 2540C	Total Dissolved Solids	142	mg/L	10.0	03/09/20 22:16	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/12/20 18:55	
EPA 300.0 Rev 2.1 1993	Sulfate	16.3	mg/L	1.0	03/12/20 18:55	
2629786013	FBL030220					
EPA 6020B	Barium	0.0018J	mg/L	0.010	03/16/20 17:11	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/16/20 17:11	
2629786014	EQBL030220					
EPA 6020B	Barium	0.0018J	mg/L	0.010	03/16/20 17:16	
EPA 6020B	Chromium	0.00049J	mg/L	0.010	03/16/20 17:16	
EPA 6020B	Copper	0.00019J	mg/L	0.025	03/16/20 17:16	
EPA 6020B	Zinc	0.0031J	mg/L	0.010	03/16/20 17:16	
2629786015	DUP-1					
EPA 6010D	Calcium	33.4	mg/L	1.0	03/13/20 19:22	M1
EPA 6020B	Barium	0.021	mg/L	0.010	03/16/20 18:14	
EPA 6020B	Boron	0.0079J	mg/L	0.040	03/16/20 18:14	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	03/16/20 18:14	
EPA 6020B	Copper	0.00036J	mg/L	0.025	03/16/20 18:14	
EPA 6020B	Thallium	0.000092J	mg/L	0.0010	03/16/20 18:14	
EPA 6020B	Zinc	0.0017J	mg/L	0.010	03/16/20 18:14	
SM 2540C	Total Dissolved Solids	151	mg/L	10.0	03/09/20 22:16	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/12/20 20:19	
EPA 300.0 Rev 2.1 1993	Sulfate	16.7	mg/L	1.0	03/12/20 20:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF
Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786016	GWA-53					
	Field pH	7.63	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	31.2	mg/L	1.0	03/13/20 19:35	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	03/16/20 18:37	B
EPA 6020B	Arsenic	0.00044J	mg/L	0.0050	03/16/20 18:37	
EPA 6020B	Barium	0.013	mg/L	0.010	03/16/20 18:37	
EPA 6020B	Boron	0.0064J	mg/L	0.040	03/16/20 18:37	
EPA 6020B	Chromium	0.00076J	mg/L	0.010	03/16/20 18:37	
EPA 6020B	Copper	0.00053J	mg/L	0.025	03/16/20 18:37	
EPA 6020B	Lead	0.00016J	mg/L	0.0050	03/16/20 18:37	
EPA 6020B	Zinc	0.0040J	mg/L	0.010	03/16/20 18:37	
SM 2540C	Total Dissolved Solids	146	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/12/20 20:33	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/12/20 20:33	
2629786017	GWA-53R					
	Field pH	7.72	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	31.6	mg/L	1.0	03/13/20 19:46	
EPA 6020B	Antimony	0.00053J	mg/L	0.0030	03/16/20 18:43	B
EPA 6020B	Arsenic	0.00043J	mg/L	0.0050	03/16/20 18:43	
EPA 6020B	Barium	0.015	mg/L	0.010	03/16/20 18:43	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/16/20 18:43	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	03/16/20 18:43	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/16/20 18:43	
SM 2540C	Total Dissolved Solids	157	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/12/20 20:47	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/12/20 20:47	
2629786018	GWA-55R					
	Field pH	7.27	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	39.9	mg/L	1.0	03/13/20 19:49	
EPA 6020B	Barium	0.029	mg/L	0.010	03/16/20 18:49	
EPA 6020B	Boron	0.0063J	mg/L	0.040	03/16/20 18:49	
EPA 6020B	Chromium	0.00079J	mg/L	0.010	03/16/20 18:49	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	03/16/20 18:49	
EPA 6020B	Zinc	0.0028J	mg/L	0.010	03/16/20 18:49	
SM 2540C	Total Dissolved Solids	207	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/12/20 21:01	
EPA 300.0 Rev 2.1 1993	Sulfate	23.4	mg/L	1.0	03/12/20 21:01	
2629786019	GWA-56					
	Field pH	7.95	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	38.0	mg/L	1.0	03/13/20 19:53	
EPA 6020B	Arsenic	0.00040J	mg/L	0.0050	03/16/20 18:54	
EPA 6020B	Barium	0.039	mg/L	0.010	03/16/20 18:54	
EPA 6020B	Boron	0.022J	mg/L	0.040	03/16/20 18:54	
EPA 6020B	Copper	0.00030J	mg/L	0.025	03/16/20 18:54	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	03/16/20 18:54	
EPA 6020B	Zinc	0.0029J	mg/L	0.010	03/16/20 18:54	
SM 2540C	Total Dissolved Solids	325	mg/L	10.0	03/11/20 16:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786019	GWA-56					
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/12/20 21:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.30	03/12/20 21:15	
EPA 300.0 Rev 2.1 1993	Sulfate	69.4	mg/L	1.0	03/12/20 21:15	M1
2629786020	GWC-16R					
	Field pH	7.37	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	60.6	mg/L	1.0	03/13/20 19:56	
EPA 6020B	Antimony	0.019	mg/L	0.0030	03/16/20 19:12	
EPA 6020B	Arsenic	0.00088J	mg/L	0.0050	03/16/20 19:12	
EPA 6020B	Barium	0.045	mg/L	0.010	03/16/20 19:12	
EPA 6020B	Boron	0.027J	mg/L	0.040	03/16/20 19:12	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/16/20 19:12	
EPA 6020B	Copper	0.0024J	mg/L	0.025	03/16/20 19:12	
EPA 6020B	Nickel	0.0032J	mg/L	0.010	03/16/20 19:12	
EPA 6020B	Thallium	0.00014J	mg/L	0.0010	03/16/20 19:12	
EPA 6020B	Vanadium	0.0023J	mg/L	0.010	03/16/20 19:12	
EPA 6020B	Zinc	0.015	mg/L	0.010	03/16/20 19:12	
SM 2540C	Total Dissolved Solids	326	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	0.79J	mg/L	1.0	03/12/20 21:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29J	mg/L	0.30	03/12/20 21:57	
EPA 300.0 Rev 2.1 1993	Sulfate	8.4	mg/L	1.0	03/12/20 21:57	
2629786021	GWC-19R					
	Field pH	7.65	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	34.0	mg/L	1.0	03/13/20 20:00	
EPA 6020B	Arsenic	0.00072J	mg/L	0.0050	03/16/20 19:17	
EPA 6020B	Barium	0.017	mg/L	0.010	03/16/20 19:17	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	03/16/20 19:17	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	03/16/20 19:17	
EPA 6020B	Copper	0.00036J	mg/L	0.025	03/16/20 19:17	
EPA 6020B	Lead	0.00030J	mg/L	0.0050	03/16/20 19:17	
EPA 6020B	Nickel	0.00071J	mg/L	0.010	03/16/20 19:17	
EPA 6020B	Vanadium	0.00096J	mg/L	0.010	03/16/20 19:17	
EPA 6020B	Zinc	0.0072J	mg/L	0.010	03/16/20 19:17	
SM 2540C	Total Dissolved Solids	157	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/12/20 22:11	
EPA 300.0 Rev 2.1 1993	Sulfate	3.6	mg/L	1.0	03/12/20 22:11	
2629786022	FBL030420					
EPA 6020B	Barium	0.0018J	mg/L	0.010	03/16/20 19:23	
EPA 6020B	Zinc	0.0023J	mg/L	0.010	03/16/20 19:23	
2629786023	EQBL030420					
EPA 6020B	Barium	0.0018J	mg/L	0.010	03/16/20 19:29	
EPA 6020B	Chromium	0.00046J	mg/L	0.010	03/16/20 19:29	
EPA 6020B	Zinc	0.0022J	mg/L	0.010	03/16/20 19:29	
2629786024	DUP-2					
EPA 6010D	Calcium	41.0	mg/L	1.0	03/13/20 20:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786024	DUP-2					
EPA 6020B	Barium	0.029	mg/L	0.010	03/16/20 19:34	
EPA 6020B	Boron	0.0052J	mg/L	0.040	03/16/20 19:34	
EPA 6020B	Chromium	0.00072J	mg/L	0.010	03/16/20 19:34	
EPA 6020B	Zinc	0.0026J	mg/L	0.010	03/16/20 19:34	
SM 2540C	Total Dissolved Solids	206	mg/L	10.0	03/11/20 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/12/20 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	23.6	mg/L	1.0	03/12/20 23:35	
2629786025	GWC-17R					
	Field pH	7.30	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	71.4	mg/L	1.0	03/13/20 20:14	
EPA 6020B	Barium	0.018	mg/L	0.010	03/16/20 19:40	
EPA 6020B	Chromium	0.00063J	mg/L	0.010	03/16/20 19:40	
EPA 6020B	Copper	0.00023J	mg/L	0.025	03/16/20 19:40	
EPA 6020B	Zinc	0.0035J	mg/L	0.010	03/16/20 19:40	
SM 2540C	Total Dissolved Solids	307	mg/L	10.0	03/12/20 12:59	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/12/20 23:49	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	03/12/20 23:49	
2629786026	GWC-18R					
	Field pH	7.77	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	32.0	mg/L	1.0	03/13/20 20:17	
EPA 6020B	Antimony	0.00068J	mg/L	0.0030	03/16/20 19:46	B
EPA 6020B	Arsenic	0.00042J	mg/L	0.0050	03/16/20 19:46	
EPA 6020B	Barium	0.015	mg/L	0.010	03/16/20 19:46	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	03/16/20 19:46	
EPA 6020B	Chromium	0.00070J	mg/L	0.010	03/16/20 19:46	
EPA 6020B	Lead	0.00032J	mg/L	0.0050	03/16/20 19:46	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/16/20 19:46	
SM 2540C	Total Dissolved Solids	143	mg/L	10.0	03/12/20 12:59	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/13/20 00:03	
EPA 300.0 Rev 2.1 1993	Sulfate	1.9	mg/L	1.0	03/13/20 00:03	
2629786027	GWC-20R					
	Field pH	7.60	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	38.9	mg/L	1.0	03/16/20 17:10	
EPA 6020B	Barium	0.028	mg/L	0.010	03/16/20 19:52	
EPA 6020B	Chromium	0.00075J	mg/L	0.010	03/16/20 19:52	
EPA 6020B	Zinc	0.0023J	mg/L	0.010	03/16/20 19:52	
SM 2540C	Total Dissolved Solids	171	mg/L	10.0	03/12/20 12:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/13/20 00:17	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/13/20 00:17	
2629786028	GWC-23R					
	Field pH	7.24	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	63.7	mg/L	1.0	03/16/20 17:14	
EPA 6020B	Barium	0.022	mg/L	0.010	03/16/20 19:57	
EPA 6020B	Chromium	0.00086J	mg/L	0.010	03/16/20 19:57	
EPA 6020B	Copper	0.00030J	mg/L	0.025	03/16/20 19:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF
Pace Project No.: 2629786

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629786028	GWC-23R					
EPA 6020B	Lead	0.000052J	mg/L	0.0050	03/16/20 19:57	
EPA 6020B	Nickel	0.00075J	mg/L	0.010	03/16/20 19:57	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	03/16/20 19:57	
EPA 6020B	Vanadium	0.00071J	mg/L	0.010	03/16/20 19:57	
EPA 6020B	Zinc	0.0084J	mg/L	0.010	03/16/20 19:57	
SM 2540C	Total Dissolved Solids	265	mg/L	10.0	03/12/20 12:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/13/20 00:31	
EPA 300.0 Rev 2.1 1993	Sulfate	10.8	mg/L	1.0	03/13/20 00:31	
2629786029	FBL030520					
EPA 300.0 Rev 2.1 1993	Sulfate	0.55J	mg/L	1.0	03/13/20 21:39	
2629786030	EQBL030520					
EPA 6020B	Zinc	0.0022J	mg/L	0.010	03/16/20 20:20	
2629786031	DUP-3					
EPA 6010D	Calcium	39.2	mg/L	1.0	03/16/20 17:24	
EPA 6020B	Arsenic	0.00040J	mg/L	0.0050	03/16/20 20:26	
EPA 6020B	Barium	0.029	mg/L	0.010	03/16/20 20:26	
EPA 6020B	Chromium	0.0016J	mg/L	0.010	03/16/20 20:26	
EPA 6020B	Zinc	0.0020J	mg/L	0.010	03/16/20 20:26	
SM 2540C	Total Dissolved Solids	174	mg/L	10.0	03/12/20 12:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/20 23:21	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	03/13/20 23:21	
2629786032	GWC-18					
	Field pH	7.01	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	23.5	mg/L	1.0	03/16/20 17:28	
EPA 6020B	Antimony	0.00049J	mg/L	0.0030	03/16/20 20:32	B
EPA 6020B	Barium	0.015	mg/L	0.010	03/16/20 20:32	
EPA 6020B	Chromium	0.0019J	mg/L	0.010	03/16/20 20:32	
EPA 6020B	Copper	0.00023J	mg/L	0.025	03/16/20 20:32	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	03/16/20 20:32	
EPA 6020B	Nickel	0.00050J	mg/L	0.010	03/16/20 20:32	
EPA 6020B	Thallium	0.000076J	mg/L	0.0010	03/16/20 20:32	
EPA 6020B	Zinc	0.0045J	mg/L	0.010	03/16/20 20:32	
SM 2540C	Total Dissolved Solids	109	mg/L	10.0	03/13/20 16:23	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/13/20 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/13/20 23:35	
2629786033	SPRING					
	Field pH	7.16	Std. Units		03/09/20 14:29	
EPA 6010D	Calcium	14.0	mg/L	1.0	03/16/20 17:31	
EPA 6020B	Arsenic	0.00041J	mg/L	0.0050	03/16/20 20:37	
EPA 6020B	Barium	0.039	mg/L	0.010	03/16/20 20:37	
EPA 6020B	Boron	0.0082J	mg/L	0.040	03/16/20 20:37	
EPA 6020B	Chromium	0.0033J	mg/L	0.010	03/16/20 20:37	
EPA 6020B	Cobalt	0.00051J	mg/L	0.0050	03/16/20 20:37	
EPA 6020B	Copper	0.0015J	mg/L	0.025	03/16/20 20:37	

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2629786033	SPRING					
EPA 6020B	Lead	0.00071J	mg/L	0.0050	03/16/20 20:37	
EPA 6020B	Nickel	0.0014J	mg/L	0.010	03/16/20 20:37	
EPA 6020B	Vanadium	0.0032J	mg/L	0.010	03/16/20 20:37	
EPA 6020B	Zinc	0.0064J	mg/L	0.010	03/16/20 20:37	
SM 2540C	Total Dissolved Solids	75.0	mg/L	10.0	03/13/20 16:23	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/13/20 04:15	
EPA 300.0 Rev 2.1 1993	Sulfate	3.4	mg/L	1.0	03/13/20 04:15	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-51RZ **Lab ID: 2629786001** Collected: 03/03/20 09:58 Received: 03/04/20 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.73	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	47.6	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:25	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 19:17	7440-36-0	
Arsenic	0.00073J	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 19:17	7440-38-2	
Barium	0.017	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 19:17	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 19:17	7440-41-7	
Boron	0.0096J	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 19:17	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 19:17	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 19:17	7440-48-4	
Copper	0.00041J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 19:17	7440-50-8	
Lead	0.000051J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 19:17	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 19:17	7440-02-0	
Selenium	0.0053J	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 19:17	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 19:17	7440-22-4	
Thallium	0.00012J	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 19:17	7440-28-0	
Vanadium	0.00091J	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 19:17	7440-62-2	
Zinc	0.0035J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 19:17	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	211	mg/L	10.0	10.0	1		03/10/20 11:52		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.6	mg/L	1.0	0.60	1		03/10/20 22:16	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 22:16	16984-48-8	
Sulfate	21.5	mg/L	1.0	0.50	1		03/10/20 22:16	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Sample: GWA-54		Lab ID: 2629786002		Collected: 03/03/20 13:23		Received: 03/04/20 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.59	Std. Units			1		03/09/20 14:29		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	27.1	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:35	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.0011J	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 19:40	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 19:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 19:40	7440-41-7	
Boron	0.0084J	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 19:40	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 19:40	7440-43-9	
Chromium	0.0017J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 19:40	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 19:40	7440-48-4	
Copper	0.00025J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 19:40	7440-50-8	
Lead	0.000048J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 19:40	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 19:40	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 19:40	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 19:40	7440-22-4	
Thallium	0.000079J	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 19:40	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 19:40	7440-62-2	
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 19:40	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:32	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	91.0	mg/L	10.0	10.0	1		03/10/20 11:52		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	0.77J	mg/L	1.0	0.60	1		03/10/20 22:30	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 22:30	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/10/20 22:30	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-55		Lab ID: 2629786003		Collected: 03/03/20 15:12		Received: 03/04/20 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.95	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	40.1	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:39	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 19:57	7440-38-2	
Barium	0.023	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 19:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 19:57	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 19:57	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 19:57	7440-43-9	
Chromium	0.00085J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 19:57	7440-47-3	B
Cobalt	0.0048J	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 19:57	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 19:57	7440-50-8	
Lead	0.000048J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 19:57	7439-92-1	
Nickel	0.00061J	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 19:57	7440-02-0	
Selenium	0.0025J	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 19:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 19:57	7440-22-4	
Thallium	0.000065J	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 19:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 19:57	7440-62-2	
Zinc	0.0050J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 19:57	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	210	mg/L	10.0	10.0	1		03/10/20 11:52		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.7	mg/L	1.0	0.60	1		03/10/20 22:44	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 22:44	16984-48-8	
Sulfate	29.0	mg/L	1.0	0.50	1		03/10/20 22:44	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-21R		Lab ID: 2629786004		Collected: 03/03/20 16:31		Received: 03/04/20 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.10	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	70.2	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:42	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0019J	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 20:03	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 20:03	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 20:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 20:03	7440-41-7	
Boron	0.0096J	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 20:03	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 20:03	7440-43-9	
Chromium	0.00058J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 20:03	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 20:03	7440-48-4	
Copper	0.00049J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 20:03	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 20:03	7439-92-1	
Nickel	0.00099J	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 20:03	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 20:03	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 20:03	7440-22-4	
Thallium	0.000071J	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 20:03	7440-28-0	
Vanadium	0.00085J	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 20:03	7440-62-2	
Zinc	0.0044J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 20:03	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	292	mg/L	10.0	10.0	1		03/10/20 11:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	3.9	mg/L	1.0	0.60	1		03/10/20 22:58	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 22:58	16984-48-8	
Sulfate	11.3	mg/L	1.0	0.50	1		03/10/20 22:58	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: **GWC-22R** Lab ID: **2629786005** Collected: 03/03/20 14:08 Received: 03/04/20 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.15	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	37.2	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:46	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 20:08	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 20:08	7440-38-2	
Barium	0.044	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 20:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 20:08	7440-41-7	
Boron	0.0066J	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 20:08	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 20:08	7440-43-9	
Chromium	0.00057J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 20:08	7440-47-3	B
Cobalt	0.00078J	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 20:08	7440-48-4	
Copper	0.00022J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 20:08	7440-50-8	
Lead	0.000059J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 20:08	7439-92-1	
Nickel	0.0010J	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 20:08	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 20:08	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 20:08	7440-22-4	
Thallium	0.000072J	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 20:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 20:08	7440-62-2	
Zinc	0.0029J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 20:08	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	181	mg/L	10.0	10.0	1		03/10/20 11:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.5	mg/L	1.0	0.60	1		03/10/20 23:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 23:12	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/10/20 23:12	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-24R		Lab ID: 2629786006		Collected: 03/03/20 12:13		Received: 03/04/20 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.55	Std. Units			1		03/09/20 14:29		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	33.3	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:49	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 20:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 20:14	7440-38-2	
Barium	0.020	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 20:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 20:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 20:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 20:14	7440-43-9	
Chromium	0.00052J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 20:14	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 20:14	7440-48-4	
Copper	0.00097J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 20:14	7440-50-8	
Lead	0.000057J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 20:14	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 20:14	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 20:14	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 20:14	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 20:14	7440-28-0	
Vanadium	0.0011J	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 20:14	7440-62-2	
Zinc	0.0033J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 20:14	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:48	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	146	mg/L	10.0	10.0	1		03/10/20 11:53		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	2.1	mg/L	1.0	0.60	1		03/10/20 23:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/10/20 23:26	16984-48-8	
Sulfate	2.0	mg/L	1.0	0.50	1		03/10/20 23:26	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Sample: GWC-25R		Lab ID: 2629786007		Collected: 03/03/20 10:21		Received: 03/04/20 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.56	Std. Units			1		03/09/20 14:29		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	37.6	mg/L	1.0	0.14	1	03/10/20 18:30	03/11/20 20:53	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/10/20 20:52	03/11/20 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/10/20 20:52	03/11/20 20:20	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/10/20 20:52	03/11/20 20:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/10/20 20:52	03/11/20 20:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/10/20 20:52	03/11/20 20:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/10/20 20:52	03/11/20 20:20	7440-43-9	
Chromium	0.00078J	mg/L	0.010	0.00039	1	03/10/20 20:52	03/11/20 20:20	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/10/20 20:52	03/11/20 20:20	7440-48-4	
Copper	0.00027J	mg/L	0.025	0.00019	1	03/10/20 20:52	03/11/20 20:20	7440-50-8	
Lead	0.000059J	mg/L	0.0050	0.000046	1	03/10/20 20:52	03/11/20 20:20	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/10/20 20:52	03/11/20 20:20	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/10/20 20:52	03/11/20 20:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/10/20 20:52	03/11/20 20:20	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/10/20 20:52	03/11/20 20:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/10/20 20:52	03/11/20 20:20	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/10/20 20:52	03/11/20 20:20	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/10/20 08:40	03/10/20 18:51	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	183	mg/L	10.0	10.0	1		03/10/20 11:53		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	2.4	mg/L	1.0	0.60	1		03/11/20 00:08	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/11/20 00:08	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/11/20 00:08	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-36		Lab ID: 2629786008		Collected: 03/02/20 11:26		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.58	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	12.5	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 19:42	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 16:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 16:21	7440-38-2	
Barium	0.019	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 16:21	7440-39-3	
Beryllium	0.00024J	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 16:21	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 16:21	7440-42-8	
Cadmium	0.0012J	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 16:21	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 16:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 16:21	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 16:21	7440-50-8	
Lead	0.000052J	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 16:21	7439-92-1	
Nickel	0.00071J	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 16:21	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 16:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 16:21	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 16:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 16:21	7440-62-2	
Zinc	0.54	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 16:21	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		03/09/20 22:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.1	mg/L	1.0	0.60	1		03/13/20 04:36	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 04:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 04:36	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-36R	Lab ID: 2629786009	Collected: 03/02/20 11:20	Received: 03/06/20 11:25	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.24	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	35.2	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 19:46	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 16:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 16:27	7440-38-2	
Barium	0.024	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 16:27	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 16:27	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 16:27	7440-42-8	
Cadmium	0.00018J	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 16:27	7440-43-9	
Chromium	0.00047J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 16:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 16:27	7440-48-4	
Copper	0.00043J	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 16:27	7440-50-8	
Lead	0.00031J	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 16:27	7439-92-1	
Nickel	0.00051J	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 16:27	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 16:27	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 16:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 16:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 16:27	7440-62-2	
Zinc	0.056	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 16:27	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	170	mg/L	10.0	10.0	1		03/09/20 22:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.4	mg/L	1.0	0.60	1		03/12/20 17:45	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 17:45	16984-48-8	M1
Sulfate	7.9	mg/L	1.0	0.50	1		03/12/20 17:45	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-37 **Lab ID: 2629786010** Collected: 03/02/20 14:37 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	5.52	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	0.77J	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 19:49	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0018J	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 16:48	7440-36-0	
Arsenic	0.00053J	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 16:48	7440-38-2	B
Barium	0.0050J	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 16:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 16:48	7440-41-7	
Boron	0.0052J	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 16:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 16:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 16:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 16:48	7440-48-4	
Copper	0.0068J	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 16:48	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 16:48	7439-92-1	
Nickel	0.0079J	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 16:48	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 16:48	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 16:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 16:48	7440-28-0	
Vanadium	0.00074J	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 16:48	7440-62-2	
Zinc	0.0063J	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 16:48	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/20 22:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	0.78J	mg/L	1.0	0.60	1		03/12/20 18:27	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 18:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 18:27	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-38 **Lab ID: 2629786011** Collected: 03/02/20 13:22 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	5.49	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	2.5	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 19:53	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 16:53	7440-36-0	
Arsenic	0.00059J	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 16:53	7440-38-2	B
Barium	0.012	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 16:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 16:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 16:53	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 16:53	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 16:53	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 16:53	7440-48-4	
Copper	0.00019J	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 16:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 16:53	7439-92-1	
Nickel	0.0010J	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 16:53	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 16:53	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 16:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 16:53	7440-28-0	
Vanadium	0.0014J	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 16:53	7440-62-2	
Zinc	0.0032J	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 16:53	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	32.0	mg/L	10.0	10.0	1		03/09/20 22:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.5	mg/L	1.0	0.60	1		03/12/20 18:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 18:41	16984-48-8	
Sulfate	0.50J	mg/L	1.0	0.50	1		03/12/20 18:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-52		Lab ID: 2629786012		Collected: 03/02/20 16:31		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.44	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	33.7	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 19:56	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 16:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 16:59	7440-38-2	
Barium	0.023	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 16:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 16:59	7440-41-7	
Boron	0.0070J	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 16:59	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 16:59	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 16:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 16:59	7440-48-4	
Copper	0.00024J	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 16:59	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 16:59	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 16:59	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 16:59	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 16:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 16:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 16:59	7440-62-2	
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 16:59	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	142	mg/L	10.0	10.0	1		03/09/20 22:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	4.9	mg/L	1.0	0.60	1		03/12/20 18:55	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 18:55	16984-48-8	
Sulfate	16.3	mg/L	1.0	0.50	1		03/12/20 18:55	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: FBL030220 **Lab ID: 2629786013** Collected: 03/02/20 17:28 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/18/20 20:00	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 17:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 17:11	7440-38-2	
Barium	0.0018J	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 17:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 17:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 17:11	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 17:11	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 17:11	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 17:11	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 17:11	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 17:11	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 17:11	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 17:11	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 17:11	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 17:11	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 17:11	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:12	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/20 22:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 19:09	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 19:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 19:09	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Sample: EQBL030220 **Lab ID: 2629786014** Collected: 03/02/20 17:31 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:18	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/11/20 19:30	03/16/20 17:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/11/20 19:30	03/16/20 17:16	7440-38-2	
Barium	0.0018J	mg/L	0.010	0.00049	1	03/11/20 19:30	03/16/20 17:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/11/20 19:30	03/16/20 17:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/11/20 19:30	03/16/20 17:16	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/11/20 19:30	03/16/20 17:16	7440-43-9	
Chromium	0.00049J	mg/L	0.010	0.00039	1	03/11/20 19:30	03/16/20 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/11/20 19:30	03/16/20 17:16	7440-48-4	
Copper	0.00019J	mg/L	0.025	0.00019	1	03/11/20 19:30	03/16/20 17:16	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/11/20 19:30	03/16/20 17:16	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/11/20 19:30	03/16/20 17:16	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/11/20 19:30	03/16/20 17:16	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/11/20 19:30	03/16/20 17:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/11/20 19:30	03/16/20 17:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/11/20 19:30	03/16/20 17:16	7440-62-2	
Zinc	0.0031J	mg/L	0.010	0.0015	1	03/11/20 19:30	03/16/20 17:16	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:15	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/20 22:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 19:23	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 19:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 19:23	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: DUP-1 **Lab ID:** 2629786015 Collected: 03/02/20 00:00 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	33.4	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:22	7440-70-2	M1
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 18:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 18:14	7440-38-2	
Barium	0.021	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 18:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 18:14	7440-41-7	
Boron	0.0079J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 18:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 18:14	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 18:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 18:14	7440-48-4	
Copper	0.00036J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 18:14	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 18:14	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 18:14	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 18:14	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 18:14	7440-22-4	
Thallium	0.000092J	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 18:14	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 18:14	7440-62-2	
Zinc	0.0017J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 18:14	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:17	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	151	mg/L	10.0	10.0	1		03/09/20 22:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	5.0	mg/L	1.0	0.60	1		03/12/20 20:19	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 20:19	16984-48-8	
Sulfate	16.7	mg/L	1.0	0.50	1		03/12/20 20:19	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-53		Lab ID: 2629786016		Collected: 03/04/20 11:16		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.63	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	31.2	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:35	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0019J	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 18:37	7440-36-0	B
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 18:37	7440-38-2	
Barium	0.013	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 18:37	7440-41-7	
Boron	0.0064J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 18:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 18:37	7440-43-9	
Chromium	0.00076J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 18:37	7440-48-4	
Copper	0.00053J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 18:37	7440-50-8	
Lead	0.00016J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 18:37	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 18:37	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 18:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 18:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 18:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 18:37	7440-62-2	
Zinc	0.0040J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 18:37	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	146	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.2	mg/L	1.0	0.60	1		03/12/20 20:33	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 20:33	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/12/20 20:33	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Sample: GWA-53R		Lab ID: 2629786017		Collected: 03/04/20 12:13		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.72	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	31.6	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:46	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00053J	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 18:43	7440-36-0	B
Arsenic	0.00043J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 18:43	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 18:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 18:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 18:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 18:43	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 18:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 18:43	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 18:43	7440-50-8	
Lead	0.000066J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 18:43	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 18:43	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 18:43	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 18:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 18:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 18:43	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 18:43	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 09:30	03/12/20 19:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	157	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.3	mg/L	1.0	0.60	1		03/12/20 20:47	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 20:47	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/12/20 20:47	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-55R **Lab ID: 2629786018** Collected: 03/04/20 10:49 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.27	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	39.9	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:49	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 18:49	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 18:49	7440-38-2	
Barium	0.029	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 18:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 18:49	7440-41-7	
Boron	0.0063J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 18:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 18:49	7440-43-9	
Chromium	0.00079J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 18:49	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 18:49	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 18:49	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 18:49	7440-02-0	
Selenium	0.0018J	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 18:49	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 18:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 18:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 18:49	7440-62-2	
Zinc	0.0028J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 18:49	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	207	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.6	mg/L	1.0	0.60	1		03/12/20 21:01	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 21:01	16984-48-8	
Sulfate	23.4	mg/L	1.0	0.50	1		03/12/20 21:01	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWA-56		Lab ID: 2629786019		Collected: 03/04/20 13:08		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.95	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	38.0	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:53	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 18:54	7440-36-0	
Arsenic	0.00040J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 18:54	7440-38-2	
Barium	0.039	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 18:54	7440-41-7	
Boron	0.022J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 18:54	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 18:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 18:54	7440-48-4	
Copper	0.00030J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 18:54	7440-50-8	
Lead	0.000050J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 18:54	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 18:54	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 18:54	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 18:54	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 18:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 18:54	7440-62-2	
Zinc	0.0029J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 18:54	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	325	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	4.5	mg/L	1.0	0.60	1		03/12/20 21:15	16887-00-6	
Fluoride	0.086J	mg/L	0.30	0.050	1		03/12/20 21:15	16984-48-8	
Sulfate	69.4	mg/L	1.0	0.50	1		03/12/20 21:15	14808-79-8	M1

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-16R		Lab ID: 2629786020		Collected: 03/04/20 16:10		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.37	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	60.6	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 19:56	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.019	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:12	7440-36-0	
Arsenic	0.00088J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:12	7440-38-2	
Barium	0.045	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:12	7440-41-7	
Boron	0.027J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:12	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:12	7440-48-4	
Copper	0.0024J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:12	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:12	7439-92-1	
Nickel	0.0032J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:12	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:12	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:12	7440-22-4	
Thallium	0.00014J	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:12	7440-28-0	
Vanadium	0.0023J	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:12	7440-62-2	
Zinc	0.015	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:12	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	326	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	0.79J	mg/L	1.0	0.60	1		03/12/20 21:57	16887-00-6	
Fluoride	0.29J	mg/L	0.30	0.050	1		03/12/20 21:57	16984-48-8	
Sulfate	8.4	mg/L	1.0	0.50	1		03/12/20 21:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-19R **Lab ID: 2629786021** Collected: 03/04/20 16:20 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.65	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	34.0	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:00	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:17	7440-36-0	
Arsenic	0.00072J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:17	7440-38-2	
Barium	0.017	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:17	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:17	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:17	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:17	7440-48-4	
Copper	0.00036J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:17	7440-50-8	
Lead	0.00030J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:17	7439-92-1	
Nickel	0.00071J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:17	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:17	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:17	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:17	7440-28-0	
Vanadium	0.00096J	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:17	7440-62-2	
Zinc	0.0072J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:17	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	157	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.3	mg/L	1.0	0.60	1		03/12/20 22:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:11	16984-48-8	
Sulfate	3.6	mg/L	1.0	0.50	1		03/12/20 22:11	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: FBL030420 **Lab ID: 2629786022** Collected: 03/04/20 16:37 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:03	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:23	7440-38-2	
Barium	0.0018J	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:23	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:23	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:23	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:23	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:23	7440-62-2	
Zinc	0.0023J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:23	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:19	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 22:25	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 22:25	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 22:25	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: EQBL030420 **Lab ID: 2629786023** Collected: 03/04/20 16:44 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:07	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:29	7440-38-2	
Barium	0.0018J	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:29	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:29	7440-43-9	
Chromium	0.00046J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:29	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:29	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:29	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:29	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:29	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:29	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:29	7440-62-2	
Zinc	0.0022J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:29	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:26	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/12/20 23:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/20 23:21	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: DUP-2 **Lab ID:** 2629786024 Collected: 03/04/20 00:00 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	41.0	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:10	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:34	7440-38-2	
Barium	0.029	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:34	7440-41-7	
Boron	0.0052J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:34	7440-43-9	
Chromium	0.00072J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:34	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:34	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:34	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:34	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:34	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:34	7440-62-2	
Zinc	0.0026J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:34	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	206	mg/L	10.0	10.0	1		03/11/20 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.6	mg/L	1.0	0.60	1		03/12/20 23:35	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:35	16984-48-8	
Sulfate	23.6	mg/L	1.0	0.50	1		03/12/20 23:35	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-17R		Lab ID: 2629786025		Collected: 03/05/20 12:30		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.30	Std. Units			1		03/09/20 14:29		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	71.4	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:14	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:40	7440-38-2	
Barium	0.018	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:40	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:40	7440-43-9	
Chromium	0.00063J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:40	7440-48-4	
Copper	0.00023J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:40	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:40	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:40	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:40	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:40	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:40	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:40	7440-62-2	
Zinc	0.0035J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:40	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:31	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	307	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	4.5	mg/L	1.0	0.60	1		03/12/20 23:49	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/12/20 23:49	16984-48-8	
Sulfate	7.7	mg/L	1.0	0.50	1		03/12/20 23:49	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Sample: GWC-18R		Lab ID: 2629786026		Collected: 03/05/20 15:35		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.77	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	32.0	mg/L	1.0	0.14	1	03/11/20 18:00	03/13/20 20:17	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00068J	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:46	7440-36-0	B
Arsenic	0.00042J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:46	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:46	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:46	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:46	7440-43-9	
Chromium	0.00070J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:46	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:46	7440-50-8	
Lead	0.00032J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:46	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:46	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:46	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:46	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:46	7440-62-2	
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:46	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	143	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.2	mg/L	1.0	0.60	1		03/13/20 00:03	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 00:03	16984-48-8	
Sulfate	1.9	mg/L	1.0	0.50	1		03/13/20 00:03	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-20R		Lab ID: 2629786027		Collected: 03/05/20 14:31		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.60	Std. Units			1		03/09/20 14:29		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	38.9	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:10	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:52	7440-38-2	
Barium	0.028	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:52	7440-43-9	
Chromium	0.00075J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:52	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:52	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:52	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:52	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:52	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:52	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:52	7440-62-2	
Zinc	0.0023J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:52	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/11/20 10:30	03/12/20 20:35	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	171	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	1.5	mg/L	1.0	0.60	1		03/13/20 00:17	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 00:17	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		03/13/20 00:17	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-23R		Lab ID: 2629786028		Collected: 03/05/20 09:55		Received: 03/06/20 11:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.24	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	63.7	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:14	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 19:57	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 19:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 19:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 19:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 19:57	7440-43-9	
Chromium	0.00086J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 19:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 19:57	7440-48-4	
Copper	0.00030J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 19:57	7440-50-8	
Lead	0.000052J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 19:57	7439-92-1	
Nickel	0.00075J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 19:57	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 19:57	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 19:57	7440-22-4	
Thallium	0.00018J	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 19:57	7440-28-0	
Vanadium	0.00071J	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 19:57	7440-62-2	
Zinc	0.0084J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 19:57	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	265	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.3	mg/L	1.0	0.60	1		03/13/20 00:31	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 00:31	16984-48-8	
Sulfate	10.8	mg/L	1.0	0.50	1		03/13/20 00:31	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: FBL030520 **Lab ID: 2629786029** Collected: 03/05/20 17:05 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:17	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:03	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:03	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:03	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:03	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:03	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:03	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:03	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:03	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:03	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:29	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 21:39	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 21:39	16984-48-8	M1
Sulfate	0.55J	mg/L	1.0	0.50	1		03/13/20 21:39	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: EQBL030520 **Lab ID: 2629786030** Collected: 03/05/20 17:12 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:21	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:20	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:20	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:20	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:20	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:20	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:20	7440-62-2	
Zinc	0.0022J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:20	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/12/20 12:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/13/20 23:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 23:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/20 23:06	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: DUP-3 **Lab ID: 2629786031** Collected: 03/05/20 00:00 Received: 03/06/20 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Calcium	39.2	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:24	7440-70-2	
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6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A

Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:26	7440-36-0	
Arsenic	0.00040J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:26	7440-38-2	
Barium	0.029	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:26	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:26	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:26	7440-43-9	
Chromium	0.0016J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:26	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:26	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:26	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:26	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:26	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:26	7440-62-2	
Zinc	0.0020J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:26	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A

Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:34	7439-97-6	
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2540C Total Dissolved Solids Analytical Method: SM 2540C

Total Dissolved Solids	174	mg/L	10.0	10.0	1		03/12/20 12:59		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993

Chloride	1.6	mg/L	1.0	0.60	1		03/13/20 23:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 23:21	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		03/13/20 23:21	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: GWC-18 **Lab ID: 2629786032** Collected: 03/06/20 12:11 Received: 03/06/20 17:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.01	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	23.5	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:28	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00049J	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:32	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:32	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:32	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:32	7440-43-9	
Chromium	0.0019J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:32	7440-48-4	
Copper	0.00023J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:32	7440-50-8	
Lead	0.00013J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:32	7439-92-1	
Nickel	0.00050J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:32	7440-22-4	
Thallium	0.000076J	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:32	7440-62-2	
Zinc	0.0045J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:32	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	109	mg/L	10.0	10.0	1		03/13/20 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.2	mg/L	1.0	0.60	1		03/13/20 23:35	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 23:35	16984-48-8	
Sulfate	2.0	mg/L	1.0	0.50	1		03/13/20 23:35	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Sample: SPRING **Lab ID: 2629786033** Collected: 03/06/20 09:15 Received: 03/06/20 17:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method:									
Field pH	7.16	Std. Units			1		03/09/20 14:29		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	14.0	mg/L	1.0	0.14	1	03/11/20 18:00	03/16/20 17:31	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:37	7440-36-0	
Arsenic	0.00041J	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:37	7440-38-2	
Barium	0.039	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:37	7440-41-7	
Boron	0.0082J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:37	7440-43-9	
Chromium	0.0033J	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:37	7440-47-3	
Cobalt	0.00051J	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:37	7440-48-4	
Copper	0.0015J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:37	7440-50-8	
Lead	0.00071J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:37	7439-92-1	
Nickel	0.0014J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:37	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:37	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:37	7440-28-0	
Vanadium	0.0032J	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:37	7440-62-2	
Zinc	0.0064J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:37	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	75.0	mg/L	10.0	10.0	1		03/13/20 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.1	mg/L	1.0	0.60	1		03/13/20 04:15	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/13/20 04:15	16984-48-8	
Sulfate	3.4	mg/L	1.0	0.50	1		03/13/20 04:15	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 44367 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

METHOD BLANK: 203479 Matrix: Water
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/10/20 18:17	

LABORATORY CONTROL SAMPLE: 203480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203481 203482

Parameter	Units	2629786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	98	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44416

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014, 2629786015, 2629786016, 2629786017

METHOD BLANK: 203797

Matrix: Water

Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014, 2629786015, 2629786016, 2629786017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/12/20 18:15	

LABORATORY CONTROL SAMPLE: 203798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203799 203800

Parameter	Units	2629703020 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	97	102	75-125	4	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44417

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027

METHOD BLANK: 203801

Matrix: Water

Associated Lab Samples: 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/12/20 19:29	

LABORATORY CONTROL SAMPLE: 203802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203803 203804

Parameter	Units	2629828005		203804		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0027	99	108	75-125	9	20

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 44498 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

METHOD BLANK: 204276 Matrix: Water
 Associated Lab Samples: 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/13/20 13:03	

LABORATORY CONTROL SAMPLE: 204277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204278 204279

Parameter	Units	204278		204279		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44426 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

METHOD BLANK: 203829 Matrix: Water
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/11/20 19:22	

LABORATORY CONTROL SAMPLE: 203830

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 203831 203832

Parameter	Units	2629765005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	49.3	1	1	50.7	50.4	137	108	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44482 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013

METHOD BLANK: 204090 Matrix: Water
 Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/18/20 18:33	

LABORATORY CONTROL SAMPLE: 204091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204092 204093

Parameter	Units	2629733017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	37.9	1	1	38.6	39.1	76	118	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 44483 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629786014, 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

METHOD BLANK: 204097 Matrix: Water
 Associated Lab Samples: 2629786014, 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/13/20 19:11	

LABORATORY CONTROL SAMPLE: 204098

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204099 204100

Parameter	Units	2629786015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	33.4	1	1	35.4	34.4	192	97	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch:	44440	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007			

METHOD BLANK: 203914 Matrix: Water
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/11/20 18:48	
Arsenic	mg/L	ND	0.0050	0.00035	03/11/20 18:48	
Barium	mg/L	ND	0.010	0.00049	03/11/20 18:48	
Beryllium	mg/L	ND	0.0030	0.000074	03/11/20 18:48	
Boron	mg/L	0.0084J	0.040	0.0049	03/11/20 18:48	
Cadmium	mg/L	ND	0.0025	0.00011	03/11/20 18:48	
Chromium	mg/L	0.00054J	0.010	0.00039	03/11/20 18:48	
Cobalt	mg/L	ND	0.0050	0.00030	03/11/20 18:48	
Copper	mg/L	ND	0.025	0.00019	03/11/20 18:48	
Lead	mg/L	ND	0.0050	0.000046	03/11/20 18:48	
Nickel	mg/L	ND	0.010	0.00031	03/11/20 18:48	
Selenium	mg/L	ND	0.010	0.0013	03/11/20 18:48	
Silver	mg/L	ND	0.010	0.00028	03/11/20 18:48	
Thallium	mg/L	ND	0.0010	0.000052	03/11/20 18:48	
Vanadium	mg/L	ND	0.010	0.00071	03/11/20 18:48	
Zinc	mg/L	ND	0.010	0.0015	03/11/20 18:48	

LABORATORY CONTROL SAMPLE: 203915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Nickel	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Silver	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.11	108	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	103	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Parameter	Units	203916		203917		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2629786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Arsenic	mg/L	0.00073J	0.1	0.1	0.099	0.099	99	98	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	100	100	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20	
Boron	mg/L	0.0096J	1	1	1.0	1.1	103	105	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	2	20	
Copper	mg/L	0.00041J	0.1	0.1	0.098	0.10	98	99	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Nickel	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Selenium	mg/L	0.0053J	0.1	0.1	0.10	0.11	98	104	75-125	6	20	
Silver	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Thallium	mg/L	0.00012J	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Vanadium	mg/L	0.00091J	0.1	0.1	0.10	0.10	102	104	75-125	1	20	
Zinc	mg/L	0.0035J	0.1	0.1	0.10	0.10	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44487 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014

METHOD BLANK: 204143 Matrix: Water
 Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/16/20 14:26	
Arsenic	mg/L	0.00036J	0.0050	0.00035	03/16/20 14:26	
Barium	mg/L	ND	0.010	0.00049	03/16/20 14:26	
Beryllium	mg/L	ND	0.0030	0.000074	03/16/20 14:26	
Boron	mg/L	ND	0.040	0.0049	03/16/20 14:26	
Cadmium	mg/L	ND	0.0025	0.00011	03/16/20 14:26	
Chromium	mg/L	ND	0.010	0.00039	03/16/20 14:26	
Cobalt	mg/L	ND	0.0050	0.00030	03/16/20 14:26	
Copper	mg/L	ND	0.025	0.00019	03/16/20 14:26	
Lead	mg/L	ND	0.0050	0.000046	03/16/20 14:26	
Nickel	mg/L	ND	0.010	0.00031	03/16/20 14:26	
Selenium	mg/L	ND	0.010	0.0013	03/16/20 14:26	
Silver	mg/L	ND	0.010	0.00028	03/16/20 14:26	
Thallium	mg/L	ND	0.0010	0.000052	03/16/20 14:26	
Vanadium	mg/L	ND	0.010	0.00071	03/16/20 14:26	
Zinc	mg/L	ND	0.010	0.0015	03/16/20 14:26	

LABORATORY CONTROL SAMPLE: 204144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Copper	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Silver	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.10	100	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204145		204146		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2629733015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	3	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	4	20		
Barium	mg/L	0.025	0.1	0.1	0.13	0.12	102	98	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	4	20		
Boron	mg/L	1.5	1	1	2.6	2.4	112	94	75-125	7	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.096	97	95	75-125	2	20		
Cobalt	mg/L	0.0011J	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Copper	mg/L	0.00029J	0.1	0.1	0.098	0.096	98	96	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Nickel	mg/L	0.0047J	0.1	0.1	0.10	0.10	96	96	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20		
Silver	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20		
Vanadium	mg/L	0.0033J	0.1	0.1	0.10	0.10	102	99	75-125	3	20		
Zinc	mg/L	0.0026J	0.1	0.1	0.099	0.099	97	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44555 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

METHOD BLANK: 204815 Matrix: Water

Associated Lab Samples: 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028, 2629786029, 2629786030, 2629786031, 2629786032, 2629786033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/16/20 18:03	
Arsenic	mg/L	ND	0.0050	0.00035	03/16/20 18:03	
Barium	mg/L	ND	0.010	0.00049	03/16/20 18:03	
Beryllium	mg/L	ND	0.0030	0.000074	03/16/20 18:03	
Boron	mg/L	ND	0.040	0.0049	03/16/20 18:03	
Cadmium	mg/L	ND	0.0025	0.00011	03/16/20 18:03	
Chromium	mg/L	ND	0.010	0.00039	03/16/20 18:03	
Cobalt	mg/L	ND	0.0050	0.00030	03/16/20 18:03	
Copper	mg/L	ND	0.025	0.00019	03/16/20 18:03	
Lead	mg/L	ND	0.0050	0.000046	03/16/20 18:03	
Nickel	mg/L	ND	0.010	0.00031	03/16/20 18:03	
Selenium	mg/L	ND	0.010	0.0013	03/16/20 18:03	
Silver	mg/L	ND	0.010	0.00028	03/16/20 18:03	
Thallium	mg/L	ND	0.0010	0.000052	03/16/20 18:03	
Vanadium	mg/L	ND	0.010	0.00071	03/16/20 18:03	
Zinc	mg/L	ND	0.010	0.0015	03/16/20 18:03	

LABORATORY CONTROL SAMPLE: 204816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Silver	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.10	101	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204817		204818		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2629786015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	97	100	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	104	75-125	5	20	
Boron	mg/L	0.0079J	1	1	1.0	1.1	103	107	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	1	20	
Chromium	mg/L	0.0011J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Copper	mg/L	0.00036J	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Thallium	mg/L	0.000092J	0.1	0.1	0.094	0.097	94	97	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Zinc	mg/L	0.0017J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44391 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629786008, 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014, 2629786015

LABORATORY CONTROL SAMPLE: 203645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	380	95	84-108	

SAMPLE DUPLICATE: 203646

Parameter	Units	2629786008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	71.0	9	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44404 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006, 2629786007

LABORATORY CONTROL SAMPLE: 203703

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

SAMPLE DUPLICATE: 203704

Parameter	Units	2629765002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	369	369	0	10	

SAMPLE DUPLICATE: 203705

Parameter	Units	2629765013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 44470 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024

LABORATORY CONTROL SAMPLE: 204029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	413	103	84-108	

SAMPLE DUPLICATE: 204030

Parameter	Units	2629733013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11.0	10.0	10	10	

SAMPLE DUPLICATE: 204031

Parameter	Units	2629884001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	152	167	9	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44505 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629786025, 2629786026, 2629786027, 2629786028, 2629786029, 2629786030, 2629786031

LABORATORY CONTROL SAMPLE: 204334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	84-108	

SAMPLE DUPLICATE: 204335

Parameter	Units	2629733017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	314	6	10	

SAMPLE DUPLICATE: 204336

Parameter	Units	2629734014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	457	455	0	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 44563	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2629786032, 2629786033	

LABORATORY CONTROL SAMPLE: 204885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	84-108	

SAMPLE DUPLICATE: 204886

Parameter	Units	2629872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	305	303	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch:	529390	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006		

METHOD BLANK:	2827590	Matrix:	Water
Associated Lab Samples:	2629786001, 2629786002, 2629786003, 2629786004, 2629786005, 2629786006		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/10/20 16:12	
Fluoride	mg/L	ND	0.10	0.050	03/10/20 16:12	
Sulfate	mg/L	ND	1.0	0.50	03/10/20 16:12	

LABORATORY CONTROL SAMPLE: 2827591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.1	98	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2827592 2827593

Parameter	Units	2827592		2827593		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	42.0	50	92.3	92.6	101	101	90-110	0	10	
Fluoride	mg/L	1.4	2.5	4.0	4.0	101	102	90-110	1	10	
Sulfate	mg/L	48.4	50	98.1	98.3	99	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2827594 2827595

Parameter	Units	2827594		2827595		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	79.1	50	118	119	77	79	90-110	1	10 M1	
Fluoride	mg/L	0.052J	2.5	2.6	2.6	103	103	90-110	0	10	
Sulfate	mg/L	97.4	50	141	143	88	90	90-110	1	10 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 529391 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629786007

METHOD BLANK: 2827596 Matrix: Water
 Associated Lab Samples: 2629786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/10/20 23:40	
Fluoride	mg/L	ND	0.10	0.050	03/10/20 23:40	
Sulfate	mg/L	ND	1.0	0.50	03/10/20 23:40	

LABORATORY CONTROL SAMPLE: 2827597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2827598 2827599

Parameter	Units	2629786007		2827598		2827599		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	2.4	50	50	53.6	53.8	102	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	103	90-110	2	10		
Sulfate	mg/L	1.6	50	50	51.6	51.8	100	100	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2827600 2827601

Parameter	Units	2629765002		2827600		2827601		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	9.6	50	50	61.1	61.3	103	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	91	95	90-110	4	10		
Sulfate	mg/L	195	50	50	240	240	89	90	90-110	0	10 M1		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 529972 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629786008

METHOD BLANK: 2830385 Matrix: Water
 Associated Lab Samples: 2629786008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/20 08:37	
Fluoride	mg/L	ND	0.10	0.050	03/13/20 08:37	
Sulfate	mg/L	ND	1.0	0.50	03/13/20 08:37	

LABORATORY CONTROL SAMPLE: 2830386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.5	105	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830387 2830388

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92468702015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	45.5	50	50	50	95.4	95.2	100	99	90-110	0	10	
Fluoride	mg/L	1.5	2.5	2.5	2.5	3.5	3.6	82	87	90-110	4	10	M1
Sulfate	mg/L	1690	50	50	50	1760	1780	126	179	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830389 2830390

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629733011 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.1	50	50	50	56.2	55.3	102	100	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	1.5	1.6	60	62	90-110	4	10	M1
Sulfate	mg/L	199	50	50	50	246	244	94	90	90-110	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 529973 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014, 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028

METHOD BLANK: 2830391 Matrix: Water
 Associated Lab Samples: 2629786009, 2629786010, 2629786011, 2629786012, 2629786013, 2629786014, 2629786015, 2629786016, 2629786017, 2629786018, 2629786019, 2629786020, 2629786021, 2629786022, 2629786023, 2629786024, 2629786025, 2629786026, 2629786027, 2629786028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/12/20 17:17	
Fluoride	mg/L	ND	0.10	0.050	03/12/20 17:17	
Sulfate	mg/L	ND	1.0	0.50	03/12/20 17:17	

LABORATORY CONTROL SAMPLE: 2830392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830393 2830394

Parameter	Units	2629786009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Qualifiers		
										RPD	RPD	Qual
Chloride	mg/L	2.4	50	50	53.9	54.4	103	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.2	2.3	88	91	90-110	3	10	M1
Sulfate	mg/L	7.9	50	50	58.5	59.0	101	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830395 2830396

Parameter	Units	2629786019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Qualifiers		
										RPD	RPD	Qual
Chloride	mg/L	4.5	50	50	56.6	57.0	104	105	90-110	1	10	
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	69.4	50	50	110	110	81	82	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

QC Batch: 529981 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629786029, 2629786030, 2629786031, 2629786032

METHOD BLANK: 2830409 Matrix: Water
 Associated Lab Samples: 2629786029, 2629786030, 2629786031, 2629786032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/20 21:10	
Fluoride	mg/L	ND	0.10	0.050	03/13/20 21:10	
Sulfate	mg/L	ND	1.0	0.50	03/13/20 21:10	

LABORATORY CONTROL SAMPLE: 2830410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830411 2830412

Parameter	Units	2629786029 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	ND	50	49.9	49.9	100	100	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.9	2.7	116	106	90-110	9	10	M1	
Sulfate	mg/L	0.55J	50	51.0	50.8	101	100	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2830413 2830414

Parameter	Units	92468666022 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	8.9	50	60.3	60.4	103	103	90-110	0	10		
Fluoride	mg/L	0.26	2.5	2.9	2.9	105	108	90-110	3	10		
Sulfate	mg/L	178	50	225	224	94	92	90-110	0	10		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF

Pace Project No.: 2629786

QC Batch: 530205

Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 2629786033

METHOD BLANK: 2831543

Matrix: Water

Associated Lab Samples: 2629786033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/20 03:02	
Fluoride	mg/L	ND	0.10	0.050	03/13/20 03:02	
Sulfate	mg/L	ND	1.0	0.50	03/13/20 03:02	

LABORATORY CONTROL SAMPLE: 2831545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2831546 2831547

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92466735001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	8.6	50	50	60.6	58.6	104	100	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	106	101	90-110	5	10		
Sulfate	mg/L	27.1	50	50	79.0	76.6	104	99	90-110	3	10		

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QUALIFIERS

Project: PLANT BOWEN LF

Pace Project No.: 2629786

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629786001	GWA-51RZ				
2629786002	GWA-54				
2629786003	GWA-55				
2629786004	GWC-21R				
2629786005	GWC-22R				
2629786006	GWC-24R				
2629786007	GWC-25R				
2629786008	GWA-36				
2629786009	GWA-36R				
2629786010	GWA-37				
2629786011	GWA-38				
2629786012	GWA-52				
2629786016	GWA-53				
2629786017	GWA-53R				
2629786018	GWA-55R				
2629786019	GWA-56				
2629786020	GWC-16R				
2629786021	GWC-19R				
2629786025	GWC-17R				
2629786026	GWC-18R				
2629786027	GWC-20R				
2629786028	GWC-23R				
2629786032	GWC-18				
2629786033	SPRING				
2629786001	GWA-51RZ	EPA 3010A	44426	EPA 6010D	44442
2629786002	GWA-54	EPA 3010A	44426	EPA 6010D	44442
2629786003	GWA-55	EPA 3010A	44426	EPA 6010D	44442
2629786004	GWC-21R	EPA 3010A	44426	EPA 6010D	44442
2629786005	GWC-22R	EPA 3010A	44426	EPA 6010D	44442
2629786006	GWC-24R	EPA 3010A	44426	EPA 6010D	44442
2629786007	GWC-25R	EPA 3010A	44426	EPA 6010D	44442
2629786008	GWA-36	EPA 3010A	44482	EPA 6010D	44490
2629786009	GWA-36R	EPA 3010A	44482	EPA 6010D	44490
2629786010	GWA-37	EPA 3010A	44482	EPA 6010D	44490
2629786011	GWA-38	EPA 3010A	44482	EPA 6010D	44490
2629786012	GWA-52	EPA 3010A	44482	EPA 6010D	44490
2629786013	FBL030220	EPA 3010A	44482	EPA 6010D	44490
2629786014	EQBL030220	EPA 3010A	44483	EPA 6010D	44491
2629786015	DUP-1	EPA 3010A	44483	EPA 6010D	44491
2629786016	GWA-53	EPA 3010A	44483	EPA 6010D	44491
2629786017	GWA-53R	EPA 3010A	44483	EPA 6010D	44491
2629786018	GWA-55R	EPA 3010A	44483	EPA 6010D	44491
2629786019	GWA-56	EPA 3010A	44483	EPA 6010D	44491
2629786020	GWC-16R	EPA 3010A	44483	EPA 6010D	44491
2629786021	GWC-19R	EPA 3010A	44483	EPA 6010D	44491
2629786022	FBL030420	EPA 3010A	44483	EPA 6010D	44491
2629786023	EQBL030420	EPA 3010A	44483	EPA 6010D	44491

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629786024	DUP-2	EPA 3010A	44483	EPA 6010D	44491
2629786025	GWC-17R	EPA 3010A	44483	EPA 6010D	44491
2629786026	GWC-18R	EPA 3010A	44483	EPA 6010D	44491
2629786027	GWC-20R	EPA 3010A	44483	EPA 6010D	44491
2629786028	GWC-23R	EPA 3010A	44483	EPA 6010D	44491
2629786029	FBL030520	EPA 3010A	44483	EPA 6010D	44491
2629786030	EQBL030520	EPA 3010A	44483	EPA 6010D	44491
2629786031	DUP-3	EPA 3010A	44483	EPA 6010D	44491
2629786032	GWC-18	EPA 3010A	44483	EPA 6010D	44491
2629786033	SPRING	EPA 3010A	44483	EPA 6010D	44491
2629786001	GWA-51RZ	EPA 3005A	44440	EPA 6020B	44463
2629786002	GWA-54	EPA 3005A	44440	EPA 6020B	44463
2629786003	GWA-55	EPA 3005A	44440	EPA 6020B	44463
2629786004	GWC-21R	EPA 3005A	44440	EPA 6020B	44463
2629786005	GWC-22R	EPA 3005A	44440	EPA 6020B	44463
2629786006	GWC-24R	EPA 3005A	44440	EPA 6020B	44463
2629786007	GWC-25R	EPA 3005A	44440	EPA 6020B	44463
2629786008	GWA-36	EPA 3005A	44487	EPA 6020B	44511
2629786009	GWA-36R	EPA 3005A	44487	EPA 6020B	44511
2629786010	GWA-37	EPA 3005A	44487	EPA 6020B	44511
2629786011	GWA-38	EPA 3005A	44487	EPA 6020B	44511
2629786012	GWA-52	EPA 3005A	44487	EPA 6020B	44511
2629786013	FBL030220	EPA 3005A	44487	EPA 6020B	44511
2629786014	EQBL030220	EPA 3005A	44487	EPA 6020B	44511
2629786015	DUP-1	EPA 3005A	44555	EPA 6020B	44562
2629786016	GWA-53	EPA 3005A	44555	EPA 6020B	44562
2629786017	GWA-53R	EPA 3005A	44555	EPA 6020B	44562
2629786018	GWA-55R	EPA 3005A	44555	EPA 6020B	44562
2629786019	GWA-56	EPA 3005A	44555	EPA 6020B	44562
2629786020	GWC-16R	EPA 3005A	44555	EPA 6020B	44562
2629786021	GWC-19R	EPA 3005A	44555	EPA 6020B	44562
2629786022	FBL030420	EPA 3005A	44555	EPA 6020B	44562
2629786023	EQBL030420	EPA 3005A	44555	EPA 6020B	44562
2629786024	DUP-2	EPA 3005A	44555	EPA 6020B	44562
2629786025	GWC-17R	EPA 3005A	44555	EPA 6020B	44562
2629786026	GWC-18R	EPA 3005A	44555	EPA 6020B	44562
2629786027	GWC-20R	EPA 3005A	44555	EPA 6020B	44562
2629786028	GWC-23R	EPA 3005A	44555	EPA 6020B	44562
2629786029	FBL030520	EPA 3005A	44555	EPA 6020B	44562
2629786030	EQBL030520	EPA 3005A	44555	EPA 6020B	44562
2629786031	DUP-3	EPA 3005A	44555	EPA 6020B	44562
2629786032	GWC-18	EPA 3005A	44555	EPA 6020B	44562
2629786033	SPRING	EPA 3005A	44555	EPA 6020B	44562
2629786001	GWA-51RZ	EPA 7470A	44367	EPA 7470A	44420
2629786002	GWA-54	EPA 7470A	44367	EPA 7470A	44420
2629786003	GWA-55	EPA 7470A	44367	EPA 7470A	44420
2629786004	GWC-21R	EPA 7470A	44367	EPA 7470A	44420

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629786005	GWC-22R	EPA 7470A	44367	EPA 7470A	44420
2629786006	GWC-24R	EPA 7470A	44367	EPA 7470A	44420
2629786007	GWC-25R	EPA 7470A	44367	EPA 7470A	44420
2629786008	GWA-36	EPA 7470A	44416	EPA 7470A	44475
2629786009	GWA-36R	EPA 7470A	44416	EPA 7470A	44475
2629786010	GWA-37	EPA 7470A	44416	EPA 7470A	44475
2629786011	GWA-38	EPA 7470A	44416	EPA 7470A	44475
2629786012	GWA-52	EPA 7470A	44416	EPA 7470A	44475
2629786013	FBL030220	EPA 7470A	44416	EPA 7470A	44475
2629786014	EQBL030220	EPA 7470A	44416	EPA 7470A	44475
2629786015	DUP-1	EPA 7470A	44416	EPA 7470A	44475
2629786016	GWA-53	EPA 7470A	44416	EPA 7470A	44475
2629786017	GWA-53R	EPA 7470A	44416	EPA 7470A	44475
2629786018	GWA-55R	EPA 7470A	44417	EPA 7470A	44476
2629786019	GWA-56	EPA 7470A	44417	EPA 7470A	44476
2629786020	GWC-16R	EPA 7470A	44417	EPA 7470A	44476
2629786021	GWC-19R	EPA 7470A	44417	EPA 7470A	44476
2629786022	FBL030420	EPA 7470A	44417	EPA 7470A	44476
2629786023	EQBL030420	EPA 7470A	44417	EPA 7470A	44476
2629786024	DUP-2	EPA 7470A	44417	EPA 7470A	44476
2629786025	GWC-17R	EPA 7470A	44417	EPA 7470A	44476
2629786026	GWC-18R	EPA 7470A	44417	EPA 7470A	44476
2629786027	GWC-20R	EPA 7470A	44417	EPA 7470A	44476
2629786028	GWC-23R	EPA 7470A	44498	EPA 7470A	44524
2629786029	FBL030520	EPA 7470A	44498	EPA 7470A	44524
2629786030	EQBL030520	EPA 7470A	44498	EPA 7470A	44524
2629786031	DUP-3	EPA 7470A	44498	EPA 7470A	44524
2629786032	GWC-18	EPA 7470A	44498	EPA 7470A	44524
2629786033	SPRING	EPA 7470A	44498	EPA 7470A	44524
2629786001	GWA-51RZ	SM 2540C	44404		
2629786002	GWA-54	SM 2540C	44404		
2629786003	GWA-55	SM 2540C	44404		
2629786004	GWC-21R	SM 2540C	44404		
2629786005	GWC-22R	SM 2540C	44404		
2629786006	GWC-24R	SM 2540C	44404		
2629786007	GWC-25R	SM 2540C	44404		
2629786008	GWA-36	SM 2540C	44391		
2629786009	GWA-36R	SM 2540C	44391		
2629786010	GWA-37	SM 2540C	44391		
2629786011	GWA-38	SM 2540C	44391		
2629786012	GWA-52	SM 2540C	44391		
2629786013	FBL030220	SM 2540C	44391		
2629786014	EQBL030220	SM 2540C	44391		
2629786015	DUP-1	SM 2540C	44391		
2629786016	GWA-53	SM 2540C	44470		
2629786017	GWA-53R	SM 2540C	44470		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF
 Pace Project No.: 2629786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629786018	GWA-55R	SM 2540C	44470		
2629786019	GWA-56	SM 2540C	44470		
2629786020	GWC-16R	SM 2540C	44470		
2629786021	GWC-19R	SM 2540C	44470		
2629786022	FBL030420	SM 2540C	44470		
2629786023	EQBL030420	SM 2540C	44470		
2629786024	DUP-2	SM 2540C	44470		
2629786025	GWC-17R	SM 2540C	44505		
2629786026	GWC-18R	SM 2540C	44505		
2629786027	GWC-20R	SM 2540C	44505		
2629786028	GWC-23R	SM 2540C	44505		
2629786029	FBL030520	SM 2540C	44505		
2629786030	EQBL030520	SM 2540C	44505		
2629786031	DUP-3	SM 2540C	44505		
2629786032	GWC-18	SM 2540C	44563		
2629786033	SPRING	SM 2540C	44563		
2629786001	GWA-51RZ	EPA 300.0 Rev 2.1 1993	529390		
2629786002	GWA-54	EPA 300.0 Rev 2.1 1993	529390		
2629786003	GWA-55	EPA 300.0 Rev 2.1 1993	529390		
2629786004	GWC-21R	EPA 300.0 Rev 2.1 1993	529390		
2629786005	GWC-22R	EPA 300.0 Rev 2.1 1993	529390		
2629786006	GWC-24R	EPA 300.0 Rev 2.1 1993	529390		
2629786007	GWC-25R	EPA 300.0 Rev 2.1 1993	529391		
2629786008	GWA-36	EPA 300.0 Rev 2.1 1993	529972		
2629786009	GWA-36R	EPA 300.0 Rev 2.1 1993	529973		
2629786010	GWA-37	EPA 300.0 Rev 2.1 1993	529973		
2629786011	GWA-38	EPA 300.0 Rev 2.1 1993	529973		
2629786012	GWA-52	EPA 300.0 Rev 2.1 1993	529973		
2629786013	FBL030220	EPA 300.0 Rev 2.1 1993	529973		
2629786014	EQBL030220	EPA 300.0 Rev 2.1 1993	529973		
2629786015	DUP-1	EPA 300.0 Rev 2.1 1993	529973		
2629786016	GWA-53	EPA 300.0 Rev 2.1 1993	529973		
2629786017	GWA-53R	EPA 300.0 Rev 2.1 1993	529973		
2629786018	GWA-55R	EPA 300.0 Rev 2.1 1993	529973		
2629786019	GWA-56	EPA 300.0 Rev 2.1 1993	529973		
2629786020	GWC-16R	EPA 300.0 Rev 2.1 1993	529973		
2629786021	GWC-19R	EPA 300.0 Rev 2.1 1993	529973		
2629786022	FBL030420	EPA 300.0 Rev 2.1 1993	529973		
2629786023	EQBL030420	EPA 300.0 Rev 2.1 1993	529973		
2629786024	DUP-2	EPA 300.0 Rev 2.1 1993	529973		
2629786025	GWC-17R	EPA 300.0 Rev 2.1 1993	529973		
2629786026	GWC-18R	EPA 300.0 Rev 2.1 1993	529973		
2629786027	GWC-20R	EPA 300.0 Rev 2.1 1993	529973		
2629786028	GWC-23R	EPA 300.0 Rev 2.1 1993	529973		
2629786029	FBL030520	EPA 300.0 Rev 2.1 1993	529981		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF

Pace Project No.: 2629786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629786030	EQBL030520	EPA 300.0 Rev 2.1 1993	529981		
2629786031	DUP-3	EPA 300.0 Rev 2.1 1993	529981		
2629786032	GWC-18	EPA 300.0 Rev 2.1 1993	529981		
2629786033	SPRING	EPA 300.0 Rev 2.1 1993	530205		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



Sample Condition Upon Receipt

Client Name: GA Power Project # _____

Courier: Fed Ex UPS USPS Other Commercial Private Other _____

Enabling #: _____

Container: 100 10 500ml 1000ml No

Shipping Material: Bubble Wrap Bubble Bags Ice Other _____

Thermometer Used: 2-30 Type of Ice: Dry Wet None Samples or ice cooling probe has input

Cooler Temperature: 2.0 Biological Toxin is Frozen: No Yes

*Temp includes above freezing to 5°C

Date and type of person scanning camera: 3/9/06

Origin of Custody Transfer	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	1
Origin of Custody Filter Out	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	2
Origin of Custody Reacquisition	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	3
Start-up name & Signature of COC	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	4
Samples & bags within Hold Time	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	5
Approx Hold Time Analysis (M24):	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	6
Room Turn Around Time Requested:	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	7
Self-Serve Volume	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	8
Original Containers Used	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	9
- Place Containers Used	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	
Containers, Bags	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	10
Filtered volume received for Diagnostic	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	11
Sample labels match COC	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	12
Physical description of Analysis	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	
All containers needing attention have been checked	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	13
All containers needing attention are labeled with M	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	
Complete with 60% recovery analysis	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	
Inspection - Vol, color, PC, CAG, and POC	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	14
Samples checked for decontamination	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	15
Headspace in 100ml vials (40ml)	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	16
Top Bags Present	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	17
Top Bags Custody Seals Present	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	18
Place Bag Seals and # of purchased	<u>275</u> <u>175</u> <u>175</u> <u>175</u>	19

Change Significant Resolution _____ Full-time Required? Y N

Person Contacted _____ Date/Time _____

Comments/Remarks _____

Project Manager/Reviewer _____ Date: _____

Note: Whenever there is a discrepancy arising from Carolina's on-site analysis, a copy of this form will be sent to the North Carolina DCLM Certification Office. It will be held in strict confidence, not to be used for any other purpose.



CHAIN OF CUSTODY / Analytical Request Document
 The Office Inspector General (OIG) requires, at all times, both parties' complete custody history.

Case No. 10-1000 Date 3/9/00

Requester Mr. [Name] Requested By Mr. [Name]

Request Date 3/9/00 Requested For 3/9/00

Request Location Washington DC Requested At Washington DC

Request Description [Handwritten]

Date	Time	Location	Personnel	Activity	Remarks	Signature	Initials
3/9/00	11:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	12:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	1:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	2:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	3:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	4:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	5:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	6:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	7:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	8:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	9:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	10:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	11:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	12:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	1:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	2:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	3:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	4:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	5:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	6:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	7:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	8:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	9:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	10:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	11:00	Washington DC	[Name]	Received from [Name]	[Handwritten]	[Signature]	[Initials]
3/9/00	12:00	Washington DC	[Name]	Delivered to [Name]	[Handwritten]	[Signature]	[Initials]

With Letter/Receipt 3/9/00 Custody Marked 3/9/00

Handwritten Signature [Signature] Handwritten Signature [Signature]

Handwritten Initials [Initials] Handwritten Initials [Initials]

Requester Mr. [Name] Requested By Mr. [Name]

Request Date 3/9/00 Requested For 3/9/00

Request Location Washington DC Requested At Washington DC

Request Description [Handwritten]

CHANDLER CUSTOMER ANALYTICAL REQUEST DOCUMENT
 The Chandler Laboratory is a LEAD ACCREDITED. All relevant data will be compiled accurately.

Page 1 of 1

Requested by: Chandler, Richard
 Requested for: Chandler, Richard
 Requested on: 11/21/20
 Requested at: 11:25
 Requested by phone: 714-211-1234
 Requested by email: richard.chandler@chandlerlab.com
 Requested by fax: 714-211-1234
 Requested by text: 714-211-1234
 Requested by other: 714-211-1234
 Requested by person: 714-211-1234
 Requested by location: 714-211-1234
 Requested by method: 714-211-1234
 Requested by instrument: 714-211-1234
 Requested by software: 714-211-1234
 Requested by version: 714-211-1234
 Requested by user: 714-211-1234
 Requested by password: 714-211-1234
 Requested by token: 714-211-1234
 Requested by certificate: 714-211-1234
 Requested by key: 714-211-1234
 Requested by other: 714-211-1234

SAMPLE ID	ANALYST	DATE	TIME	METHOD	INSTRUMENT	SOFTWARE	VERSION	USER	PASSWORD	TOKEN	CERTIFICATE	KEY	OTHER	ANALYSIS		REMARKS	
														START	STOP		
101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
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120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120

ANALYST	DATE	TIME	METHOD	INSTRUMENT	SOFTWARE	VERSION	USER	PASSWORD	TOKEN	CERTIFICATE	KEY	OTHER	REMARKS
101	101	101	101	101	101	101	101	101	101	101	101	101	101
102	102	102	102	102	102	102	102	102	102	102	102	102	102
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119	119	119	119	119	119	119	119	119	119	119	119	119	119
120	120	120	120	120	120	120	120	120	120	120	120	120	120

Requested by: Chandler, Richard
 Requested for: Chandler, Richard
 Requested on: 11/21/20
 Requested at: 11:25
 Requested by phone: 714-211-1234
 Requested by email: richard.chandler@chandlerlab.com
 Requested by fax: 714-211-1234
 Requested by text: 714-211-1234
 Requested by person: 714-211-1234
 Requested by location: 714-211-1234
 Requested by method: 714-211-1234
 Requested by instrument: 714-211-1234
 Requested by software: 714-211-1234
 Requested by version: 714-211-1234
 Requested by user: 714-211-1234
 Requested by password: 714-211-1234
 Requested by token: 714-211-1234
 Requested by certificate: 714-211-1234
 Requested by key: 714-211-1234
 Requested by other: 714-211-1234

CHANDLER COUNTY / Analytical Request Document
 The Order of Collection is a LOCAL requirement. All chemical tests must be completed separately.

Page 1 of 4

SAMPLE ID
 For Reporting Use
 (See 101.1)

TEST METHOD
 (See 101.1)

TEST UNIT
 (See 101.1)

TEST	UNIT	METHOD	COLLECTED			DATE	TIME	LABORATORY	ANALYST	REMARKS	STATUS
			DATE	TIME	LOCATION						
101.1	mg/L	101.1	11/25	11:25	101.1	11:25	101.1	101.1	101.1	101.1	
101.1	mg/L	101.1	11/25	11:25	101.1	11:25	101.1	101.1	101.1	101.1	
101.1	mg/L	101.1	11/25	11:25	101.1	11:25	101.1	101.1	101.1	101.1	

TESTER
 (Signature)
 (Print Name)

DATE
 11/25

TIME
 11:25

LOCATION
 101.1

LABORATORY
 101.1

ANALYST
 101.1

REMARKS
 101.1

STATUS
 101.1

TESTER
 (Signature)
 (Print Name)

DATE
 11/25

TIME
 11:25

LOCATION
 101.1

LABORATORY
 101.1

ANALYST
 101.1

REMARKS
 101.1

STATUS
 101.1

Project

CHAIN OF CUSTODY / Analytical Request Document
 This Document is a legal document. All entries shall be completed accurately.

Date: 1 28

Case No. 08-2100
 Plaintiff: [Redacted]
 Defendant: [Redacted]
 Location: [Redacted]

Item #	Description	Quantity	Unit	Container	Label	Analysis	Remarks
1	...	1	...	...	...	...	...
2	...	1	...	...	...	...	...
...

Item #	Description	Quantity	Unit	Container	Label	Analysis	Remarks
3	...	1	...	...	...	...	...
4	...	1	...	...	...	...	...
5	...	1	...	...	...	...	...
...

Handwritten notes in the table cells, including '2004 Ford Focus' and '2004 Ford Focus'.

Location: The Beach Hotel, Victoria, BC
 Details: [Redacted]
 Status: [Redacted]

Reference

CHAIN OF CUSTODY / Analytical Request Document
 This Chain of Custody is for ONLY specimens. All analytical data must be computer generated.

Project Name	Project Number	Client Name	Client Address
Client Name	Client Address	Client Phone	Client Email
Project Name	Project Number	Client Name	Client Address

SPEC ID	SPEC TYPE	SPEC TYPE		SPEC TYPE		SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE	SPEC TYPE
		Specimen	Container	Specimen	Container														
1	URINE	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
2	URINE	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
3	URINE	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
4	URINE	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container

Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container
Specimen	Container	Specimen	Container	Specimen	Container	Specimen	Container

Signature

CHAIN OF CUSTODY / Analytical Request Document
 Be completed only in a valid, documented, approved audit and to complete all steps

Client Name	Project Name	Sample ID
Client Address	Project Location	Sample Description
Client Contact	Project Manager	Sample Quantity
Client Phone	Project Start Date	Sample Storage
Client Email	Project End Date	Sample Analysis

SAMPLE ID	Description	Quantity	Storage	Analysis	Chain of Custody	
					By	Date
0001
0002
0003
0004
0005
0006
0007
0008
0009
0010

Client Name	Project Name	Sample ID
Client Address	Project Location	Sample Description
Client Contact	Project Manager	Sample Quantity
Client Phone	Project Start Date	Sample Storage
Client Email	Project End Date	Sample Analysis



CHAIN OF CUSTODY / Analytical Request Document
 The Office of Inspector General, Department of Justice

TABLE 1

Requester: William J. Barr
 Requested By: William J. Barr
 Date of Request: 10/13/2017
 Requested For: 10/13/2017
 Requested At: 10/13/2017
 Requested From: 10/13/2017

Requester's Signature: _____ Date: _____
 Requested By's Signature: _____ Date: _____

Requester's Title: Director
 Requested By's Title: Director
 Requester's Department: DOJ
 Requested By's Department: DOJ

Requester's Contact Information: William J. Barr
 Requested By's Contact Information: William J. Barr
 Requester's Phone Number: 301-724-3000
 Requested By's Phone Number: 301-724-3000

Sample ID	Description of Sample	Quantity	Units	Material		Analysis		Reference		Remarks	
				Lot	Material	Method	Reference	Date	Time	Notes	Signature
2017-10-13-001	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-002	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-003	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-004	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-005	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-006	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-007	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-008	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-009	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-010	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-011	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-012	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-013	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-014	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-015	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-016	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-017	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-018	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-019	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-020	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-021	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-022	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-023	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-024	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-025	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-026	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-027	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-028	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-029	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-030	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-031	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-032	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-033	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-034	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-035	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-036	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-037	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-038	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-039	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-040	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-041	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-042	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-043	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-044	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-045	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-046	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-047	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-048	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-049	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		
2017-10-13-050	100 mg of JDO	1	mg	100	JDO	GC/MS	100	10/13/2017	10:00		



March 30, 2020

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

RE: Project: PLANT BOWEN LF CELLS 9 & 10
Pace Project No.: 2629875

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 06, 2020 and March 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

cc: Michelle Barker, Wood E&I Solutions, Inc.
Kristen Jurinko
Lauren Petty, Southern Company Services, Inc.
Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2629875001	GWA-41	Water	03/06/20 11:05	03/06/20 17:30
2629875002	GWA-42	Water	03/06/20 12:23	03/06/20 17:30
2629875003	FBL030620	Water	03/06/20 13:31	03/06/20 17:30
2629875004	EQBL030620	Water	03/06/20 13:35	03/06/20 17:30
2629875005	DUP-1	Water	03/06/20 00:00	03/06/20 17:30
2629875006	GWA-39RZ	Water	03/09/20 14:04	03/11/20 10:33
2629875007	GWA-39Z	Water	03/09/20 15:44	03/11/20 10:33
2629875008	GWA-40	Water	03/09/20 12:59	03/11/20 10:33
2629875009	GWA-41R	Water	03/09/20 10:59	03/11/20 10:33
2629875010	GWA-43	Water	03/09/20 14:14	03/11/20 10:33
2629875011	GWA-43R	Water	03/09/20 15:39	03/11/20 10:33
2629875012	GWC-47	Water	03/09/20 15:38	03/11/20 10:33
2629875013	GWC-47R	Water	03/09/20 16:31	03/11/20 10:33
2629875014	GWC-48	Water	03/09/20 14:23	03/11/20 10:33
2629875015	GWC-49Z	Water	03/09/20 10:22	03/11/20 10:33
2629875016	GWC-44	Water	03/10/20 14:49	03/11/20 10:33
2629875017	GWC-45	Water	03/10/20 14:05	03/11/20 10:33
2629875018	GWC-45R	Water	03/10/20 15:06	03/11/20 10:33
2629875019	GWC-46R	Water	03/10/20 13:41	03/11/20 10:33
2629875020	DUP-2	Water	03/10/20 00:00	03/11/20 10:33
2629875021	FBL031020	Water	03/10/20 16:02	03/11/20 10:33
2629875022	EQBL031020	Water	03/10/20 16:06	03/11/20 10:33
2629875023	GWC-49R	Water	03/11/20 15:48	03/14/20 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629875001	GWA-41	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875002	GWA-42	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875003	FBL030620	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875004	EQBL030620	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875005	DUP-1	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875006	GWA-39RZ	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629875007	GWA-39Z	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629875008	GWA-40	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629875009	GWA-41R	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629875010	GWA-43	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
2629875011	GWA-43R	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
2629875012	GWC-47	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
2629875013	GWC-47R	EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
2629875014	GWC-48	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2629875015	GWC-49Z	SM 2540C	NJ1	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	NJ1	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2629875016	GWC-44	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875017	GWC-45	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875018	GWC-45R	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875019	GWC-46R	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875020	DUP-2	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875021	FBL031020	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875022	EQBL031020	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2629875023	GWC-49R	EPA 300.0 Rev 2.1 1993	BRJ	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	CSW	16	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875001	GWA-41					
	Field pH	6.82	Std. Units		03/09/20 09:43	
EPA 6010D	Calcium	29.2	mg/L	1.0	03/16/20 18:52	M1
EPA 6020B	Barium	0.022	mg/L	0.010	03/16/20 20:43	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/16/20 20:43	
EPA 6020B	Chromium	0.015	mg/L	0.010	03/16/20 20:43	
EPA 6020B	Copper	0.00093J	mg/L	0.025	03/16/20 20:43	
EPA 6020B	Lead	0.000091J	mg/L	0.0050	03/16/20 20:43	
EPA 6020B	Nickel	0.0089J	mg/L	0.010	03/16/20 20:43	
EPA 6020B	Zinc	0.0027J	mg/L	0.010	03/16/20 20:43	
SM 2540C	Total Dissolved Solids	137	mg/L	10.0	03/13/20 16:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/15/20 06:08	
EPA 300.0 Rev 2.1 1993	Sulfate	10.0	mg/L	1.0	03/15/20 06:08	
2629875002	GWA-42					
	Field pH	7.42	Std. Units		03/09/20 09:43	
EPA 6010D	Calcium	38.0	mg/L	1.0	03/16/20 19:13	
EPA 6020B	Barium	0.0066J	mg/L	0.010	03/17/20 16:15	
EPA 6020B	Beryllium	0.00017J	mg/L	0.0030	03/17/20 16:15	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/17/20 16:15	
EPA 6020B	Cadmium	0.00014J	mg/L	0.0025	03/17/20 16:15	
EPA 6020B	Chromium	0.00045J	mg/L	0.010	03/17/20 16:15	
EPA 6020B	Cobalt	0.00039J	mg/L	0.0050	03/17/20 16:15	
EPA 6020B	Copper	0.00019J	mg/L	0.025	03/17/20 16:15	
EPA 6020B	Lead	0.00011J	mg/L	0.0050	03/17/20 16:15	
EPA 6020B	Nickel	0.0015J	mg/L	0.010	03/17/20 16:15	
EPA 6020B	Thallium	0.000086J	mg/L	0.0010	03/17/20 16:15	
EPA 6020B	Zinc	0.012	mg/L	0.010	03/17/20 16:15	
SM 2540C	Total Dissolved Solids	143	mg/L	10.0	03/13/20 16:24	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/15/20 06:22	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/15/20 06:22	
2629875003	FBL030620					
EPA 6020B	Antimony	0.00082J	mg/L	0.0030	03/17/20 16:38	B
2629875004	EQBL030620					
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	03/17/20 16:43	B
EPA 6020B	Chromium	0.0035J	mg/L	0.010	03/17/20 16:43	
EPA 6020B	Copper	0.00021J	mg/L	0.025	03/17/20 16:43	
EPA 6020B	Zinc	0.0037J	mg/L	0.010	03/17/20 16:43	
2629875005	DUP-1					
EPA 6010D	Calcium	36.8	mg/L	1.0	03/16/20 19:23	
EPA 6020B	Barium	0.0068J	mg/L	0.010	03/17/20 16:49	
EPA 6020B	Beryllium	0.00018J	mg/L	0.0030	03/17/20 16:49	
EPA 6020B	Boron	0.0053J	mg/L	0.040	03/17/20 16:49	
EPA 6020B	Cadmium	0.00013J	mg/L	0.0025	03/17/20 16:49	
EPA 6020B	Chromium	0.00089J	mg/L	0.010	03/17/20 16:49	
EPA 6020B	Cobalt	0.00034J	mg/L	0.0050	03/17/20 16:49	
EPA 6020B	Copper	0.00020J	mg/L	0.025	03/17/20 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875005	DUP-1					
EPA 6020B	Lead	0.000098J	mg/L	0.0050	03/17/20 16:49	
EPA 6020B	Nickel	0.0013J	mg/L	0.010	03/17/20 16:49	
EPA 6020B	Zinc	0.011	mg/L	0.010	03/17/20 16:49	
SM 2540C	Total Dissolved Solids	147	mg/L	10.0	03/13/20 16:24	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/15/20 07:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	03/15/20 07:49	
2629875006	GWA-39RZ					
	Field pH	7.68	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	35.6	mg/L	1.0	03/22/20 19:25	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/17/20 19:46	B
EPA 6020B	Arsenic	0.00083J	mg/L	0.0050	03/17/20 19:46	
EPA 6020B	Barium	0.017	mg/L	0.010	03/17/20 19:46	
EPA 6020B	Boron	0.0065J	mg/L	0.040	03/17/20 19:46	
EPA 6020B	Chromium	0.0016J	mg/L	0.010	03/17/20 19:46	
EPA 6020B	Copper	0.011J	mg/L	0.025	03/17/20 19:46	
EPA 6020B	Lead	0.00027J	mg/L	0.0050	03/17/20 19:46	
EPA 6020B	Nickel	0.00083J	mg/L	0.010	03/17/20 19:46	
EPA 6020B	Zinc	0.0090J	mg/L	0.010	03/17/20 19:46	
SM 2540C	Total Dissolved Solids	173	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/17/20 16:54	
EPA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	03/17/20 16:54	
2629875007	GWA-39Z					
	Field pH	5.90	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	3.2	mg/L	1.0	03/22/20 19:28	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/17/20 19:52	B
EPA 6020B	Barium	0.0072J	mg/L	0.010	03/17/20 19:52	
EPA 6020B	Chromium	0.069	mg/L	0.010	03/17/20 19:52	
EPA 6020B	Cobalt	0.00075J	mg/L	0.0050	03/17/20 19:52	
EPA 6020B	Copper	0.00070J	mg/L	0.025	03/17/20 19:52	
EPA 6020B	Lead	0.000055J	mg/L	0.0050	03/17/20 19:52	
EPA 6020B	Nickel	0.040	mg/L	0.010	03/17/20 19:52	
EPA 6020B	Zinc	0.0035J	mg/L	0.010	03/17/20 19:52	
SM 2540C	Total Dissolved Solids	58.0	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/17/20 17:08	
EPA 300.0 Rev 2.1 1993	Sulfate	0.84J	mg/L	1.0	03/17/20 17:08	
2629875008	GWA-40					
	Field pH	7.50	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	29.4	mg/L	1.0	03/22/20 19:32	
EPA 6020B	Barium	0.0088J	mg/L	0.010	03/19/20 18:52	
EPA 6020B	Boron	0.0074J	mg/L	0.040	03/19/20 18:52	
EPA 6020B	Chromium	0.00090J	mg/L	0.010	03/19/20 18:52	B
EPA 6020B	Lead	0.000095J	mg/L	0.0050	03/19/20 18:52	
EPA 6020B	Thallium	0.000078J	mg/L	0.0010	03/19/20 18:52	
EPA 6020B	Zinc	0.0020J	mg/L	0.010	03/19/20 18:52	
SM 2540C	Total Dissolved Solids	131	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/17/20 17:22	

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875008	GWA-40					
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	03/17/20 17:22	
2629875009	GWA-41R					
	Field pH	6.70	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	25.5	mg/L	1.0	03/22/20 19:35	
EPA 6020B	Antimony	0.0037	mg/L	0.0030	03/19/20 19:15	
EPA 6020B	Barium	0.031	mg/L	0.010	03/19/20 19:15	
EPA 6020B	Boron	0.021J	mg/L	0.040	03/19/20 19:15	
EPA 6020B	Chromium	0.00040J	mg/L	0.010	03/19/20 19:15	B
EPA 6020B	Copper	0.0014J	mg/L	0.025	03/19/20 19:15	
EPA 6020B	Lead	0.000049J	mg/L	0.0050	03/19/20 19:15	
EPA 6020B	Nickel	0.00036J	mg/L	0.010	03/19/20 19:15	
EPA 6020B	Thallium	0.000061J	mg/L	0.0010	03/19/20 19:15	
EPA 6020B	Zinc	0.0024J	mg/L	0.010	03/19/20 19:15	
SM 2540C	Total Dissolved Solids	249	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/17/20 17:36	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	03/17/20 17:36	
2629875010	GWA-43					
	Field pH	5.50	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/24/20 16:49	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/19/20 19:20	
EPA 6020B	Barium	0.012	mg/L	0.010	03/19/20 19:20	
EPA 6020B	Chromium	0.0033J	mg/L	0.010	03/19/20 19:20	B
EPA 6020B	Cobalt	0.00039J	mg/L	0.0050	03/19/20 19:20	
EPA 6020B	Copper	0.00035J	mg/L	0.025	03/19/20 19:20	
EPA 6020B	Lead	0.000091J	mg/L	0.0050	03/19/20 19:20	
EPA 6020B	Nickel	0.00082J	mg/L	0.010	03/19/20 19:20	
EPA 6020B	Zinc	0.0020J	mg/L	0.010	03/19/20 19:20	
SM 2540C	Total Dissolved Solids	51.0	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/17/20 17:50	
2629875011	GWA-43R					
	Field pH	7.73	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	31.7	mg/L	1.0	03/24/20 17:03	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	03/19/20 19:26	
EPA 6020B	Barium	0.0069J	mg/L	0.010	03/19/20 19:26	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/19/20 19:26	
EPA 6020B	Chromium	0.0014J	mg/L	0.010	03/19/20 19:26	B
EPA 6020B	Copper	0.00035J	mg/L	0.025	03/19/20 19:26	
EPA 6020B	Lead	0.000096J	mg/L	0.0050	03/19/20 19:26	
EPA 6020B	Vanadium	0.00074J	mg/L	0.010	03/19/20 19:26	
EPA 6020B	Zinc	0.0022J	mg/L	0.010	03/19/20 19:26	
SM 2540C	Total Dissolved Solids	174	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/17/20 18:04	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	03/17/20 18:04	
2629875012	GWC-47					
	Field pH	7.19	Std. Units		03/24/20 15:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875012	GWC-47					
EPA 6010D	Calcium	22.3	mg/L	1.0	03/24/20 17:06	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	03/19/20 19:32	
EPA 6020B	Barium	0.0089J	mg/L	0.010	03/19/20 19:32	
EPA 6020B	Cadmium	0.00015J	mg/L	0.0025	03/19/20 19:32	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/19/20 19:32	B
EPA 6020B	Lead	0.000058J	mg/L	0.0050	03/19/20 19:32	
EPA 6020B	Zinc	0.044	mg/L	0.010	03/19/20 19:32	
SM 2540C	Total Dissolved Solids	147	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/17/20 18:46	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	03/17/20 18:46	
2629875013	GWC-47R					
	Field pH	7.51	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	35.0	mg/L	1.0	03/24/20 17:10	
EPA 6020B	Antimony	0.00056J	mg/L	0.0030	03/19/20 19:49	
EPA 6020B	Arsenic	0.00051J	mg/L	0.0050	03/19/20 19:49	
EPA 6020B	Barium	0.0082J	mg/L	0.010	03/19/20 19:49	
EPA 6020B	Boron	0.0051J	mg/L	0.040	03/19/20 19:49	
EPA 6020B	Chromium	0.0023J	mg/L	0.010	03/19/20 19:49	B
EPA 6020B	Copper	0.00032J	mg/L	0.025	03/19/20 19:49	
EPA 6020B	Lead	0.000080J	mg/L	0.0050	03/19/20 19:49	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	03/19/20 19:49	
EPA 6020B	Vanadium	0.00075J	mg/L	0.010	03/19/20 19:49	
EPA 6020B	Zinc	0.032	mg/L	0.010	03/19/20 19:49	
SM 2540C	Total Dissolved Solids	44.0	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/17/20 19:56	
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	03/17/20 19:56	
2629875014	GWC-48					
	Field pH	5.18	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	4.5	mg/L	1.0	03/24/20 17:13	
EPA 6020B	Barium	0.029	mg/L	0.010	03/19/20 19:55	
EPA 6020B	Beryllium	0.00028J	mg/L	0.0030	03/19/20 19:55	
EPA 6020B	Cadmium	0.00016J	mg/L	0.0025	03/19/20 19:55	
EPA 6020B	Chromium	0.0023J	mg/L	0.010	03/19/20 19:55	B
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	03/19/20 19:55	
EPA 6020B	Copper	0.00035J	mg/L	0.025	03/19/20 19:55	
EPA 6020B	Nickel	0.0039J	mg/L	0.010	03/19/20 19:55	
EPA 6020B	Thallium	0.000090J	mg/L	0.0010	03/19/20 19:55	
EPA 6020B	Zinc	0.0079J	mg/L	0.010	03/19/20 19:55	
SM 2540C	Total Dissolved Solids	100	mg/L	10.0	03/16/20 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	03/17/20 20:10	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/17/20 20:10	
2629875015	GWC-49Z					
	Field pH	5.60	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	0.87J	mg/L	1.0	03/24/20 17:24	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	03/19/20 20:00	
EPA 6020B	Barium	0.0045J	mg/L	0.010	03/19/20 20:00	

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875015	GWC-49Z					
EPA 6020B	Boron	0.0055J	mg/L	0.040	03/19/20 20:00	
EPA 6020B	Chromium	0.00096J	mg/L	0.010	03/19/20 20:00	B
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	03/19/20 20:00	
EPA 6020B	Copper	0.00035J	mg/L	0.025	03/19/20 20:00	
EPA 6020B	Lead	0.00017J	mg/L	0.0050	03/19/20 20:00	
EPA 6020B	Nickel	0.0030J	mg/L	0.010	03/19/20 20:00	
EPA 6020B	Zinc	0.0047J	mg/L	0.010	03/19/20 20:00	
SM 2540C	Total Dissolved Solids	51.0	mg/L	10.0	03/16/20 18:16	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	03/17/20 20:24	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/17/20 20:24	
2629875016	GWC-44					
	Field pH	4.44	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	16.9	mg/L	1.0	03/24/20 17:27	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/19/20 20:06	
EPA 6020B	Barium	0.059	mg/L	0.010	03/19/20 20:06	
EPA 6020B	Beryllium	0.000074J	mg/L	0.0030	03/19/20 20:06	
EPA 6020B	Boron	0.019J	mg/L	0.040	03/19/20 20:06	
EPA 6020B	Chromium	0.00074J	mg/L	0.010	03/19/20 20:06	B
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	03/19/20 20:06	
EPA 6020B	Copper	0.00067J	mg/L	0.025	03/19/20 20:06	
EPA 6020B	Lead	0.00066J	mg/L	0.0050	03/19/20 20:06	
EPA 6020B	Nickel	0.00086J	mg/L	0.010	03/19/20 20:06	
EPA 6020B	Selenium	0.0063J	mg/L	0.010	03/19/20 20:06	
EPA 6020B	Zinc	0.0049J	mg/L	0.010	03/19/20 20:06	
SM 2540C	Total Dissolved Solids	127	mg/L	10.0	03/17/20 14:13	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	03/17/20 20:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13J	mg/L	0.30	03/17/20 20:38	
EPA 300.0 Rev 2.1 1993	Sulfate	48.5	mg/L	1.0	03/17/20 20:38	
2629875017	GWC-45					
	Field pH	4.98	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	0.89J	mg/L	1.0	03/24/20 17:31	
EPA 6020B	Antimony	0.00087J	mg/L	0.0030	03/19/20 20:12	
EPA 6020B	Barium	0.0061J	mg/L	0.010	03/19/20 20:12	
EPA 6020B	Chromium	0.00070J	mg/L	0.010	03/19/20 20:12	B
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	03/19/20 20:12	
EPA 6020B	Copper	0.00031J	mg/L	0.025	03/19/20 20:12	
EPA 6020B	Lead	0.00014J	mg/L	0.0050	03/19/20 20:12	
EPA 6020B	Nickel	0.0012J	mg/L	0.010	03/19/20 20:12	
EPA 6020B	Zinc	0.0031J	mg/L	0.010	03/19/20 20:12	
SM 2540C	Total Dissolved Solids	60.0	mg/L	10.0	03/17/20 14:13	
EPA 300.0 Rev 2.1 1993	Chloride	0.80J	mg/L	1.0	03/17/20 20:52	
EPA 300.0 Rev 2.1 1993	Sulfate	0.61J	mg/L	1.0	03/17/20 20:52	
2629875018	GWC-45R					
	Field pH	7.05	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	43.5	mg/L	1.0	03/24/20 17:34	
EPA 6020B	Barium	0.024	mg/L	0.010	03/19/20 20:18	

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SUMMARY OF DETECTION

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2629875018	GWC-45R					
EPA 6020B	Boron	0.0090J	mg/L	0.040	03/19/20 20:18	
EPA 6020B	Chromium	0.00092J	mg/L	0.010	03/19/20 20:18	B
EPA 6020B	Zinc	0.0035J	mg/L	0.010	03/19/20 20:18	
SM 2540C	Total Dissolved Solids	245	mg/L	10.0	03/17/20 14:13	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	03/17/20 21:06	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/17/20 21:06	
2629875019	GWC-46R					
	Field pH	7.44	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	51.6	mg/L	1.0	03/24/20 17:38	
EPA 6020B	Barium	0.013	mg/L	0.010	03/19/20 20:23	
EPA 6020B	Chromium	0.0035J	mg/L	0.010	03/19/20 20:23	B
EPA 6020B	Zinc	0.0029J	mg/L	0.010	03/19/20 20:23	
SM 2540C	Total Dissolved Solids	273	mg/L	10.0	03/17/20 14:13	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/17/20 21:20	
EPA 300.0 Rev 2.1 1993	Sulfate	5.5	mg/L	1.0	03/17/20 21:20	
2629875020	DUP-2					
EPA 6010D	Calcium	42.4	mg/L	1.0	03/24/20 17:41	
EPA 6020B	Barium	0.025	mg/L	0.010	03/19/20 20:29	
EPA 6020B	Boron	0.0092J	mg/L	0.040	03/19/20 20:29	
EPA 6020B	Chromium	0.00069J	mg/L	0.010	03/19/20 20:29	B
EPA 6020B	Zinc	0.0056J	mg/L	0.010	03/19/20 20:29	
SM 2540C	Total Dissolved Solids	257	mg/L	10.0	03/17/20 14:14	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	03/17/20 21:34	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/17/20 21:34	
2629875021	FBL031020					
EPA 6020B	Zinc	0.0017J	mg/L	0.010	03/19/20 20:35	
SM 2540C	Total Dissolved Solids	89.0	mg/L	10.0	03/17/20 14:14	
2629875022	EQBL031020					
SM 2540C	Total Dissolved Solids	38.0	mg/L	10.0	03/17/20 14:14	
2629875023	GWC-49R					
	Field pH	8.19	Std. Units		03/24/20 15:16	
EPA 6010D	Calcium	27.1	mg/L	1.0	03/24/20 21:19	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	03/24/20 19:22	B
EPA 6020B	Arsenic	0.00041J	mg/L	0.0050	03/24/20 19:22	
EPA 6020B	Barium	0.026	mg/L	0.010	03/24/20 19:22	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	03/24/20 19:22	B
EPA 6020B	Nickel	0.00040J	mg/L	0.010	03/24/20 19:22	
EPA 6020B	Zinc	0.0036J	mg/L	0.010	03/24/20 19:22	B
SM 2540C	Total Dissolved Solids	125	mg/L	10.0	03/18/20 18:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/19/20 18:43	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	03/19/20 18:43	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWA-41		Lab ID: 2629875001		Collected: 03/06/20 11:05		Received: 03/06/20 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.82	Std. Units			1		03/09/20 09:43		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	29.2	mg/L	1.0	0.14	1	03/13/20 15:45	03/16/20 18:52	7440-70-2	M1
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/13/20 15:00	03/16/20 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/13/20 15:00	03/16/20 20:43	7440-38-2	
Barium	0.022	mg/L	0.010	0.00049	1	03/13/20 15:00	03/16/20 20:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/13/20 15:00	03/16/20 20:43	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0049	1	03/13/20 15:00	03/16/20 20:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/13/20 15:00	03/16/20 20:43	7440-43-9	
Chromium	0.015	mg/L	0.010	0.00039	1	03/13/20 15:00	03/16/20 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/13/20 15:00	03/16/20 20:43	7440-48-4	
Copper	0.00093J	mg/L	0.025	0.00019	1	03/13/20 15:00	03/16/20 20:43	7440-50-8	
Lead	0.000091J	mg/L	0.0050	0.000046	1	03/13/20 15:00	03/16/20 20:43	7439-92-1	
Nickel	0.0089J	mg/L	0.010	0.00031	1	03/13/20 15:00	03/16/20 20:43	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/13/20 15:00	03/16/20 20:43	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/13/20 15:00	03/16/20 20:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/13/20 15:00	03/16/20 20:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/13/20 15:00	03/16/20 20:43	7440-62-2	
Zinc	0.0027J	mg/L	0.010	0.0015	1	03/13/20 15:00	03/16/20 20:43	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	137	mg/L	10.0	10.0	1		03/13/20 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.3	mg/L	1.0	0.60	1		03/15/20 06:08	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/15/20 06:08	16984-48-8	
Sulfate	10.0	mg/L	1.0	0.50	1		03/15/20 06:08	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWA-42		Lab ID: 2629875002		Collected: 03/06/20 12:23		Received: 03/06/20 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.42	Std. Units			1		03/09/20 09:43		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	38.0	mg/L	1.0	0.14	1	03/13/20 15:45	03/16/20 19:13	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 16:15	7440-38-2	
Barium	0.0066J	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 16:15	7440-39-3	
Beryllium	0.00017J	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 16:15	7440-41-7	
Boron	0.0068J	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 16:15	7440-42-8	
Cadmium	0.00014J	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 16:15	7440-43-9	
Chromium	0.00045J	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 16:15	7440-47-3	
Cobalt	0.00039J	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 16:15	7440-48-4	
Copper	0.00019J	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 16:15	7440-50-8	
Lead	0.00011J	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 16:15	7439-92-1	
Nickel	0.0015J	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 16:15	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 16:15	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 16:15	7440-22-4	
Thallium	0.000086J	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 16:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 16:15	7440-62-2	
Zinc	0.012	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 16:15	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	143	mg/L	10.0	10.0	1		03/13/20 16:24		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.7	mg/L	1.0	0.60	1		03/15/20 06:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/15/20 06:22	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/15/20 06:22	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: FBL030620 **Lab ID: 2629875003** Collected: 03/06/20 13:31 Received: 03/06/20 17:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/13/20 15:45	03/16/20 19:16	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00082J	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 16:38	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 16:38	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 16:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 16:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 16:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 16:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 16:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 16:38	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 16:38	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 16:38	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 16:38	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 16:38	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 16:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 16:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 16:38	7440-62-2	
Zinc	ND	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 16:38	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:46	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/13/20 16:24		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/15/20 06:37	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/15/20 06:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/20 06:37	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: EQBL030620 **Lab ID: 2629875004** Collected: 03/06/20 13:35 Received: 03/06/20 17:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/13/20 15:45	03/16/20 19:20	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00032J	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 16:43	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 16:43	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 16:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 16:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 16:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 16:43	7440-43-9	
Chromium	0.0035J	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 16:43	7440-48-4	
Copper	0.00021J	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 16:43	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 16:43	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 16:43	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 16:43	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 16:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 16:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 16:43	7440-62-2	
Zinc	0.0037J	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 16:43	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:48	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/13/20 16:24		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/15/20 06:51	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/15/20 06:51	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/20 06:51	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: DUP-1 **Lab ID:** 2629875005 Collected: 03/06/20 00:00 Received: 03/06/20 17:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	36.8	mg/L	1.0	0.14	1	03/13/20 15:45	03/16/20 19:23	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 16:49	7440-38-2	
Barium	0.0068J	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 16:49	7440-39-3	
Beryllium	0.00018J	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 16:49	7440-41-7	
Boron	0.0053J	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 16:49	7440-42-8	
Cadmium	0.00013J	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 16:49	7440-43-9	
Chromium	0.00089J	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 16:49	7440-47-3	
Cobalt	0.00034J	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 16:49	7440-48-4	
Copper	0.00020J	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 16:49	7440-50-8	
Lead	0.000098J	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 16:49	7439-92-1	
Nickel	0.0013J	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 16:49	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 16:49	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 16:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 16:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 16:49	7440-62-2	
Zinc	0.011	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 16:49	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/12/20 11:45	03/13/20 13:51	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	147	mg/L	10.0	10.0	1		03/13/20 16:24		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.7	mg/L	1.0	0.60	1		03/15/20 07:49	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/15/20 07:49	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		03/15/20 07:49	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWA-39RZ		Lab ID: 2629875006		Collected: 03/09/20 14:04		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.68	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	35.6	mg/L	1.0	0.14	1	03/18/20 15:40	03/22/20 19:25	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0013J	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 19:46	7440-36-0	B
Arsenic	0.00083J	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 19:46	7440-38-2	
Barium	0.017	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 19:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 19:46	7440-41-7	
Boron	0.0065J	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 19:46	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 19:46	7440-43-9	
Chromium	0.0016J	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 19:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 19:46	7440-48-4	
Copper	0.011J	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 19:46	7440-50-8	
Lead	0.00027J	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 19:46	7439-92-1	
Nickel	0.00083J	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 19:46	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 19:46	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 19:46	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 19:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 19:46	7440-62-2	
Zinc	0.0090J	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 19:46	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	173	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.5	mg/L	1.0	0.60	1		03/17/20 16:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 16:54	16984-48-8	
Sulfate	5.8	mg/L	1.0	0.50	1		03/17/20 16:54	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWA-39Z	Lab ID: 2629875007	Collected: 03/09/20 15:44	Received: 03/11/20 10:33	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.90	Std. Units			1		03/24/20 15:16		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	3.2	mg/L	1.0	0.14	1	03/18/20 15:40	03/22/20 19:28	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.0011J	mg/L	0.0030	0.00027	1	03/16/20 18:00	03/17/20 19:52	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/16/20 18:00	03/17/20 19:52	7440-38-2	
Barium	0.0072J	mg/L	0.010	0.00049	1	03/16/20 18:00	03/17/20 19:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/16/20 18:00	03/17/20 19:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/16/20 18:00	03/17/20 19:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/16/20 18:00	03/17/20 19:52	7440-43-9	
Chromium	0.069	mg/L	0.010	0.00039	1	03/16/20 18:00	03/17/20 19:52	7440-47-3	
Cobalt	0.00075J	mg/L	0.0050	0.00030	1	03/16/20 18:00	03/17/20 19:52	7440-48-4	
Copper	0.00070J	mg/L	0.025	0.00019	1	03/16/20 18:00	03/17/20 19:52	7440-50-8	
Lead	0.000055J	mg/L	0.0050	0.000046	1	03/16/20 18:00	03/17/20 19:52	7439-92-1	
Nickel	0.040	mg/L	0.010	0.00031	1	03/16/20 18:00	03/17/20 19:52	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/16/20 18:00	03/17/20 19:52	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/16/20 18:00	03/17/20 19:52	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/16/20 18:00	03/17/20 19:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/16/20 18:00	03/17/20 19:52	7440-62-2	
Zinc	0.0035J	mg/L	0.010	0.0015	1	03/16/20 18:00	03/17/20 19:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	58.0	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	1.2	mg/L	1.0	0.60	1		03/17/20 17:08	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 17:08	16984-48-8	
Sulfate	0.84J	mg/L	1.0	0.50	1		03/17/20 17:08	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWA-40		Lab ID: 2629875008		Collected: 03/09/20 12:59		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.50	Std. Units			1		03/24/20 15:16		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	29.4	mg/L	1.0	0.14	1	03/18/20 15:40	03/22/20 19:32	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 18:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 18:52	7440-38-2	
Barium	0.0088J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 18:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 18:52	7440-41-7	
Boron	0.0074J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 18:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 18:52	7440-43-9	
Chromium	0.00090J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 18:52	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 18:52	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 18:52	7440-50-8	
Lead	0.000095J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 18:52	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 18:52	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 18:52	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 18:52	7440-22-4	
Thallium	0.000078J	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 18:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 18:52	7440-62-2	
Zinc	0.0020J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 18:52	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:33	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	131	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	1.5	mg/L	1.0	0.60	1		03/17/20 17:22	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 17:22	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		03/17/20 17:22	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWA-41R		Lab ID: 2629875009		Collected: 03/09/20 10:59		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.70	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	25.5	mg/L	1.0	0.14	1	03/18/20 15:40	03/22/20 19:35	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0037	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:15	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:15	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:15	7440-41-7	
Boron	0.021J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:15	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:15	7440-43-9	
Chromium	0.00040J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:15	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:15	7440-48-4	
Copper	0.0014J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:15	7440-50-8	
Lead	0.000049J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:15	7439-92-1	
Nickel	0.00036J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:15	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:15	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:15	7440-22-4	
Thallium	0.000061J	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:15	7440-62-2	
Zinc	0.0024J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:15	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	249	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.3	mg/L	1.0	0.60	1		03/17/20 17:36	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 17:36	16984-48-8	
Sulfate	8.5	mg/L	1.0	0.50	1		03/17/20 17:36	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWA-43		Lab ID: 2629875010		Collected: 03/09/20 14:14		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.50	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	2.6	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 16:49	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00062J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:20	7440-38-2	
Barium	0.012	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:20	7440-43-9	
Chromium	0.0033J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:20	7440-47-3	B
Cobalt	0.00039J	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:20	7440-48-4	
Copper	0.00035J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:20	7440-50-8	
Lead	0.000091J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:20	7439-92-1	
Nickel	0.00082J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:20	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:20	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:20	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:20	7440-62-2	
Zinc	0.0020J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:20	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	51.0	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.2	mg/L	1.0	0.60	1		03/17/20 17:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 17:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/17/20 17:50	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWA-43R		Lab ID: 2629875011		Collected: 03/09/20 15:39		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.73	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	31.7	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:03	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00037J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:26	7440-38-2	
Barium	0.0069J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:26	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:26	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:26	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:26	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:26	7440-48-4	
Copper	0.00035J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:26	7440-50-8	
Lead	0.000096J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:26	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:26	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:26	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:26	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:26	7440-28-0	
Vanadium	0.00074J	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:26	7440-62-2	
Zinc	0.0022J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:26	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	174	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.2	mg/L	1.0	0.60	1		03/17/20 18:04	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 18:04	16984-48-8	
Sulfate	3.9	mg/L	1.0	0.50	1		03/17/20 18:04	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWC-47		Lab ID: 2629875012		Collected: 03/09/20 15:38		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.19	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	22.3	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:06	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00032J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:32	7440-38-2	
Barium	0.0089J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:32	7440-42-8	
Cadmium	0.00015J	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:32	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:32	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:32	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:32	7440-50-8	
Lead	0.000058J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:32	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:32	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:32	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:32	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:32	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:32	7440-62-2	
Zinc	0.044	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:32	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	147	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.3	mg/L	1.0	0.60	1		03/17/20 18:46	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 18:46	16984-48-8	
Sulfate	4.3	mg/L	1.0	0.50	1		03/17/20 18:46	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWC-47R		Lab ID: 2629875013		Collected: 03/09/20 16:31		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.51	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	35.0	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:10	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00056J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:49	7440-36-0	
Arsenic	0.00051J	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:49	7440-38-2	
Barium	0.0082J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:49	7440-41-7	
Boron	0.0051J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:49	7440-43-9	
Chromium	0.0023J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:49	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:49	7440-48-4	
Copper	0.00032J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:49	7440-50-8	
Lead	0.000080J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:49	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:49	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:49	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:49	7440-22-4	
Thallium	0.00021J	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:49	7440-28-0	
Vanadium	0.00075J	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:49	7440-62-2	
Zinc	0.032	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:49	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	44.0	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	2.3	mg/L	1.0	0.60	1		03/17/20 19:56	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 19:56	16984-48-8	
Sulfate	10.4	mg/L	1.0	0.50	1		03/17/20 19:56	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWC-48		Lab ID: 2629875014		Collected: 03/09/20 14:23		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	5.18	Std. Units			1		03/24/20 15:16		
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A							
Calcium	4.5	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:13	7440-70-2	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 19:55	7440-38-2	
Barium	0.029	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 19:55	7440-39-3	
Beryllium	0.00028J	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 19:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 19:55	7440-42-8	
Cadmium	0.00016J	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 19:55	7440-43-9	
Chromium	0.0023J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 19:55	7440-47-3	B
Cobalt	0.0016J	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 19:55	7440-48-4	
Copper	0.00035J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 19:55	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 19:55	7439-92-1	
Nickel	0.0039J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 19:55	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 19:55	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 19:55	7440-22-4	
Thallium	0.000090J	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 19:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 19:55	7440-62-2	
Zinc	0.0079J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 19:55	7440-66-6	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:52	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	100	mg/L	10.0	10.0	1		03/16/20 18:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	3.4	mg/L	1.0	0.60	1		03/17/20 20:10	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 20:10	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/17/20 20:10	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWC-49Z Lab ID: 2629875015 Collected: 03/09/20 10:22 Received: 03/11/20 10:33 Matrix: Water									
Field Data	Analytical Method:								
Field pH	5.60	Std. Units			1		03/24/20 15:16		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Calcium	0.87J	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:24	7440-70-2	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.0018J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:00	7440-38-2	
Barium	0.0045J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:00	7440-41-7	
Boron	0.0055J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:00	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:00	7440-43-9	
Chromium	0.00096J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:00	7440-47-3	B
Cobalt	0.0028J	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:00	7440-48-4	
Copper	0.00035J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:00	7440-50-8	
Lead	0.00017J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:00	7439-92-1	
Nickel	0.0030J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:00	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:00	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:00	7440-62-2	
Zinc	0.0047J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	51.0	mg/L	10.0	10.0	1		03/16/20 18:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	1.0	mg/L	1.0	0.60	1		03/17/20 20:24	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 20:24	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/17/20 20:24	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWC-44		Lab ID: 2629875016		Collected: 03/10/20 14:49		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	4.44	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	16.9	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:27	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:06	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:06	7440-38-2	
Barium	0.059	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:06	7440-39-3	
Beryllium	0.000074J	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:06	7440-41-7	
Boron	0.019J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:06	7440-43-9	
Chromium	0.00074J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:06	7440-47-3	B
Cobalt	0.0021J	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:06	7440-48-4	
Copper	0.00067J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:06	7440-50-8	
Lead	0.00066J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:06	7439-92-1	
Nickel	0.00086J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:06	7440-02-0	
Selenium	0.0063J	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:06	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:06	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:06	7440-62-2	
Zinc	0.0049J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:06	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	127	mg/L	10.0	10.0	1		03/17/20 14:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	5.9	mg/L	1.0	0.60	1		03/17/20 20:38	16887-00-6	
Fluoride	0.13J	mg/L	0.30	0.050	1		03/17/20 20:38	16984-48-8	
Sulfate	48.5	mg/L	1.0	0.50	1		03/17/20 20:38	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWC-45		Lab ID: 2629875017		Collected: 03/10/20 14:05		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	4.98	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	0.89J	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:31	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00087J	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:12	7440-38-2	
Barium	0.0061J	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:12	7440-43-9	
Chromium	0.00070J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:12	7440-47-3	B
Cobalt	0.0012J	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:12	7440-48-4	
Copper	0.00031J	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:12	7440-50-8	
Lead	0.00014J	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:12	7439-92-1	
Nickel	0.0012J	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:12	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:12	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:12	7440-62-2	
Zinc	0.0031J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:12	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 14:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		03/17/20 14:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	0.80J	mg/L	1.0	0.60	1		03/17/20 20:52	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 20:52	16984-48-8	
Sulfate	0.61J	mg/L	1.0	0.50	1		03/17/20 20:52	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWC-45R		Lab ID: 2629875018		Collected: 03/10/20 15:06		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.05	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	43.5	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:34	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:18	7440-38-2	
Barium	0.024	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:18	7440-41-7	
Boron	0.0090J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:18	7440-43-9	
Chromium	0.00092J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:18	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:18	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:18	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:18	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:18	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:18	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:18	7440-62-2	
Zinc	0.0035J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:18	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	245	mg/L	10.0	10.0	1		03/17/20 14:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	4.4	mg/L	1.0	0.60	1		03/17/20 21:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 21:06	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/17/20 21:06	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Sample: GWC-46R		Lab ID: 2629875019		Collected: 03/10/20 13:41		Received: 03/11/20 10:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.44	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	51.6	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:38	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:23	7440-38-2	
Barium	0.013	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:23	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:23	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:23	7440-43-9	
Chromium	0.0035J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:23	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:23	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:23	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:23	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:23	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:23	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:23	7440-62-2	
Zinc	0.0029J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:23	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	273	mg/L	10.0	10.0	1		03/17/20 14:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.2	mg/L	1.0	0.60	1		03/17/20 21:20	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 21:20	16984-48-8	
Sulfate	5.5	mg/L	1.0	0.50	1		03/17/20 21:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: DUP-2 **Lab ID:** 2629875020 Collected: 03/10/20 00:00 Received: 03/11/20 10:33 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	42.4	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:41	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:29	7440-38-2	
Barium	0.025	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:29	7440-41-7	
Boron	0.0092J	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:29	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:29	7440-43-9	
Chromium	0.00069J	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:29	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:29	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:29	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:29	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:29	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:29	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:29	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:29	7440-62-2	
Zinc	0.0056J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:29	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:07	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	257	mg/L	10.0	10.0	1		03/17/20 14:14		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	4.4	mg/L	1.0	0.60	1		03/17/20 21:34	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 21:34	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/17/20 21:34	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: FBL031020 **Lab ID: 2629875021** Collected: 03/10/20 16:02 Received: 03/11/20 10:33 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:45	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:35	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:35	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:35	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:35	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:35	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:35	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:35	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:35	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:35	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:35	7440-62-2	
Zinc	0.0017J	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:35	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:09	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	89.0	mg/L	10.0	10.0	1		03/17/20 14:14		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/17/20 22:16	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 22:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/17/20 22:16	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: EQBL031020 **Lab ID: 2629875022** Collected: 03/10/20 16:06 Received: 03/11/20 10:33 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	ND	mg/L	1.0	0.14	1	03/23/20 16:48	03/24/20 17:48	7440-70-2	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	03/17/20 18:45	03/19/20 20:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/17/20 18:45	03/19/20 20:40	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/17/20 18:45	03/19/20 20:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/17/20 18:45	03/19/20 20:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/17/20 18:45	03/19/20 20:40	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/17/20 18:45	03/19/20 20:40	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/17/20 18:45	03/19/20 20:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/17/20 18:45	03/19/20 20:40	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/17/20 18:45	03/19/20 20:40	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/17/20 18:45	03/19/20 20:40	7439-92-1	
Nickel	ND	mg/L	0.010	0.00031	1	03/17/20 18:45	03/19/20 20:40	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/17/20 18:45	03/19/20 20:40	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/17/20 18:45	03/19/20 20:40	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/17/20 18:45	03/19/20 20:40	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/17/20 18:45	03/19/20 20:40	7440-62-2	
Zinc	ND	mg/L	0.010	0.0015	1	03/17/20 18:45	03/19/20 20:40	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:11	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	38.0	mg/L	10.0	10.0	1		03/17/20 14:14		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	ND	mg/L	1.0	0.60	1		03/17/20 22:30	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/17/20 22:30	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		03/17/20 22:30	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Sample: GWC-49R		Lab ID: 2629875023		Collected: 03/11/20 15:48		Received: 03/14/20 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	8.19	Std. Units			1		03/24/20 15:16		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Calcium	27.1	mg/L	1.0	0.14	1	03/23/20 20:25	03/24/20 21:19	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.0012J	mg/L	0.0030	0.00027	1	03/18/20 18:38	03/24/20 19:22	7440-36-0	B
Arsenic	0.00041J	mg/L	0.0050	0.00035	1	03/18/20 18:38	03/24/20 19:22	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	03/18/20 18:38	03/24/20 19:22	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/18/20 18:38	03/24/20 19:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	03/18/20 18:38	03/24/20 19:22	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/18/20 18:38	03/24/20 19:22	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	03/18/20 18:38	03/24/20 19:22	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00030	1	03/18/20 18:38	03/24/20 19:22	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	03/18/20 18:38	03/24/20 19:22	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/18/20 18:38	03/24/20 19:22	7439-92-1	
Nickel	0.00040J	mg/L	0.010	0.00031	1	03/18/20 18:38	03/24/20 19:22	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/18/20 18:38	03/24/20 19:22	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	03/18/20 18:38	03/24/20 19:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/18/20 18:38	03/24/20 19:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/18/20 18:38	03/24/20 19:22	7440-62-2	
Zinc	0.0036J	mg/L	0.010	0.0015	1	03/18/20 18:38	03/24/20 19:22	7440-66-6	B
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	03/18/20 07:40	03/18/20 15:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	125	mg/L	10.0	10.0	1		03/18/20 18:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Chloride	1.4	mg/L	1.0	0.60	1		03/19/20 18:43	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/19/20 18:43	16984-48-8	
Sulfate	3.3	mg/L	1.0	0.50	1		03/19/20 18:43	14808-79-8	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44498 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

METHOD BLANK: 204276 Matrix: Water
 Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/13/20 13:03	

LABORATORY CONTROL SAMPLE: 204277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204278 204279

Parameter	Units	2629701014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44687 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009, 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022, 2629875023

METHOD BLANK: 205409 Matrix: Water

Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009, 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022, 2629875023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	03/18/20 14:12	

LABORATORY CONTROL SAMPLE: 205410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205411 205412

Parameter	Units	2629875006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0024	105	94	75-125	11	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

QC Batch: 44554 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

METHOD BLANK: 204811 Matrix: Water
 Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/16/20 18:45	

LABORATORY CONTROL SAMPLE: 204812

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 204813 204814

Parameter	Units	204813		204814		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Calcium	mg/L	29.2	1	28.5	1	-69	-90	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44703 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009

METHOD BLANK: 205490 Matrix: Water
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/22/20 17:57	

LABORATORY CONTROL SAMPLE: 205491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205492 205493

Parameter	Units	2629901001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	23.7	1	1	25.0	25.0	126	127	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44838 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

METHOD BLANK: 206317 Matrix: Water
 Associated Lab Samples: 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/24/20 16:42	

LABORATORY CONTROL SAMPLE: 206318

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206319 206320

Parameter	Units	2629875010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.6	1	1	3.7	3.6	109	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

QC Batch: 44863 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D MET
 Associated Lab Samples: 2629875023

METHOD BLANK: 206402 Matrix: Water
 Associated Lab Samples: 2629875023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/24/20 20:19	

LABORATORY CONTROL SAMPLE: 206403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206404 206405

Parameter	Units	2630125004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	24.2	1	1	25.5	25.3	133	115	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44555 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629875001

METHOD BLANK: 204815 Matrix: Water

Associated Lab Samples: 2629875001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/16/20 18:03	
Arsenic	mg/L	ND	0.0050	0.00035	03/16/20 18:03	
Barium	mg/L	ND	0.010	0.00049	03/16/20 18:03	
Beryllium	mg/L	ND	0.0030	0.000074	03/16/20 18:03	
Boron	mg/L	ND	0.040	0.0049	03/16/20 18:03	
Cadmium	mg/L	ND	0.0025	0.00011	03/16/20 18:03	
Chromium	mg/L	ND	0.010	0.00039	03/16/20 18:03	
Cobalt	mg/L	ND	0.0050	0.00030	03/16/20 18:03	
Copper	mg/L	ND	0.025	0.00019	03/16/20 18:03	
Lead	mg/L	ND	0.0050	0.000046	03/16/20 18:03	
Nickel	mg/L	ND	0.010	0.00031	03/16/20 18:03	
Selenium	mg/L	ND	0.010	0.0013	03/16/20 18:03	
Silver	mg/L	ND	0.010	0.00028	03/16/20 18:03	
Thallium	mg/L	ND	0.0010	0.000052	03/16/20 18:03	
Vanadium	mg/L	ND	0.010	0.00071	03/16/20 18:03	
Zinc	mg/L	ND	0.010	0.0015	03/16/20 18:03	

LABORATORY CONTROL SAMPLE: 204816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Silver	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.10	101	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Parameter	Units	2629786015		204817		204818		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20			
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20			
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	97	100	75-125	2	20			
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	104	75-125	5	20			
Boron	mg/L	0.0079J	1	1	1.0	1.1	103	107	75-125	4	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	1	20			
Chromium	mg/L	0.0011J	0.1	0.1	0.10	0.10	101	100	75-125	1	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20			
Copper	mg/L	0.00036J	0.1	0.1	0.10	0.10	102	102	75-125	1	20			
Lead	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20			
Nickel	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20			
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20			
Silver	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20			
Thallium	mg/L	0.000092J	0.1	0.1	0.094	0.097	94	97	75-125	3	20			
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20			
Zinc	mg/L	0.0017J	0.1	0.1	0.10	0.10	99	98	75-125	1	20			

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44617 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629875002, 2629875003, 2629875004, 2629875005, 2629875006, 2629875007

METHOD BLANK: 205055 Matrix: Water
 Associated Lab Samples: 2629875002, 2629875003, 2629875004, 2629875005, 2629875006, 2629875007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00027	03/17/20 16:03	
Arsenic	mg/L	ND	0.0050	0.00035	03/17/20 16:03	
Barium	mg/L	ND	0.010	0.00049	03/17/20 16:03	
Beryllium	mg/L	ND	0.0030	0.000074	03/17/20 16:03	
Boron	mg/L	ND	0.040	0.0049	03/17/20 16:03	
Cadmium	mg/L	ND	0.0025	0.00011	03/17/20 16:03	
Chromium	mg/L	ND	0.010	0.00039	03/17/20 16:03	
Cobalt	mg/L	ND	0.0050	0.00030	03/17/20 16:03	
Copper	mg/L	ND	0.025	0.00019	03/17/20 16:03	
Lead	mg/L	ND	0.0050	0.000046	03/17/20 16:03	
Nickel	mg/L	ND	0.010	0.00031	03/17/20 16:03	
Selenium	mg/L	ND	0.010	0.0013	03/17/20 16:03	
Silver	mg/L	ND	0.010	0.00028	03/17/20 16:03	
Thallium	mg/L	ND	0.0010	0.000052	03/17/20 16:03	
Vanadium	mg/L	ND	0.010	0.00071	03/17/20 16:03	
Zinc	mg/L	ND	0.010	0.0015	03/17/20 16:03	

LABORATORY CONTROL SAMPLE: 205056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Copper	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Silver	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	
Vanadium	mg/L	0.1	0.11	106	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Parameter	Units	205057		205058		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2629875002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Barium	mg/L	0.0066J	0.1	0.1	0.11	0.11	102	104	75-125	2	20	
Beryllium	mg/L	0.00017J	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Boron	mg/L	0.0068J	1	1	1.0	1.0	101	102	75-125	1	20	
Cadmium	mg/L	0.00014J	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Chromium	mg/L	0.00045J	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Cobalt	mg/L	0.00039J	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Copper	mg/L	0.00019J	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Lead	mg/L	0.00011J	0.1	0.1	0.096	0.098	96	97	75-125	2	20	
Nickel	mg/L	0.0015J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	0	20	
Thallium	mg/L	0.000086J	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Zinc	mg/L	0.012	0.1	0.1	0.11	0.11	98	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44679 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629875008, 2629875009, 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

METHOD BLANK: 205363 Matrix: Water
 Associated Lab Samples: 2629875008, 2629875009, 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/19/20 18:40	
Arsenic	mg/L	ND	0.0050	0.00035	03/19/20 18:40	
Barium	mg/L	ND	0.010	0.00049	03/19/20 18:40	
Beryllium	mg/L	ND	0.0030	0.000074	03/19/20 18:40	
Boron	mg/L	ND	0.040	0.0049	03/19/20 18:40	
Cadmium	mg/L	ND	0.0025	0.00011	03/19/20 18:40	
Chromium	mg/L	0.00045J	0.010	0.00039	03/19/20 18:40	
Cobalt	mg/L	ND	0.0050	0.00030	03/19/20 18:40	
Copper	mg/L	ND	0.025	0.00019	03/19/20 18:40	
Lead	mg/L	ND	0.0050	0.000046	03/19/20 18:40	
Nickel	mg/L	ND	0.010	0.00031	03/19/20 18:40	
Selenium	mg/L	ND	0.010	0.0013	03/19/20 18:40	
Silver	mg/L	ND	0.010	0.00028	03/19/20 18:40	
Thallium	mg/L	ND	0.0010	0.000052	03/19/20 18:40	
Vanadium	mg/L	ND	0.010	0.00071	03/19/20 18:40	
Zinc	mg/L	ND	0.010	0.0015	03/19/20 18:40	

LABORATORY CONTROL SAMPLE: 205364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	
Zinc	mg/L	0.1	0.092	92	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205365		205366		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2629875008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Barium	mg/L	0.0088J	0.1	0.1	0.11	0.11	101	98	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	1	20		
Boron	mg/L	0.0074J	1	1	1.0	1.0	102	101	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	3	20		
Chromium	mg/L	0.00090J	0.1	0.1	0.10	0.10	103	104	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20		
Lead	mg/L	0.000095J	0.1	0.1	0.096	0.095	95	94	75-125	1	20		
Nickel	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	98	98	75-125	0	20		
Silver	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Thallium	mg/L	0.000078J	0.1	0.1	0.095	0.096	95	96	75-125	1	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20		
Zinc	mg/L	0.0020J	0.1	0.1	0.092	0.092	90	90	75-125	0	20		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44725 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2629875023

METHOD BLANK: 205651 Matrix: Water

Associated Lab Samples: 2629875023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00029J	0.0030	0.00027	03/24/20 17:15	
Arsenic	mg/L	ND	0.0050	0.00035	03/24/20 17:15	
Barium	mg/L	ND	0.010	0.00049	03/24/20 17:15	
Beryllium	mg/L	ND	0.0030	0.000074	03/24/20 17:15	
Boron	mg/L	ND	0.040	0.0049	03/24/20 17:15	
Cadmium	mg/L	ND	0.0025	0.00011	03/24/20 17:15	
Chromium	mg/L	0.0013J	0.010	0.00039	03/24/20 17:15	
Cobalt	mg/L	ND	0.0050	0.00030	03/24/20 17:15	
Copper	mg/L	ND	0.025	0.00019	03/24/20 17:15	
Lead	mg/L	ND	0.0050	0.000046	03/24/20 17:15	
Nickel	mg/L	ND	0.010	0.00031	03/24/20 17:15	
Selenium	mg/L	ND	0.010	0.0013	03/24/20 17:15	
Silver	mg/L	ND	0.010	0.00028	03/24/20 17:15	
Thallium	mg/L	ND	0.0010	0.000052	03/24/20 17:15	
Vanadium	mg/L	ND	0.010	0.00071	03/24/20 17:15	
Zinc	mg/L	0.0018J	0.010	0.0015	03/24/20 17:15	

LABORATORY CONTROL SAMPLE: 205652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Silver	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 205653		205654		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630003002 Result	MS Spike Conc.	MSD Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	4	20		
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	101	104	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20		
Boron	mg/L	ND	1	1	1.1	1.1	104	107	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.10	0.11	102	104	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.099	96	99	75-125	2	20		
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.10	94	99	75-125	6	20		
Silver	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	103	105	75-125	1	20		
Zinc	mg/L	ND	0.1	0.1	0.11	0.11	97	99	75-125	2	20		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44563 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

LABORATORY CONTROL SAMPLE: 204885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	84-108	

SAMPLE DUPLICATE: 204886

Parameter	Units	2629872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	305	303	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44628 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009, 2629875010, 2629875011, 2629875012, 2629875013, 2629875014, 2629875015

LABORATORY CONTROL SAMPLE: 205087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	425	106	84-108	

SAMPLE DUPLICATE: 205088

Parameter	Units	2629907005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	13.0	143	10	D6

SAMPLE DUPLICATE: 205089

Parameter	Units	2629875012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	147	141	4	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 44652 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

LABORATORY CONTROL SAMPLE: 205165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	84-108	

SAMPLE DUPLICATE: 205166

Parameter	Units	2629938004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	231	188	21	10	D6

SAMPLE DUPLICATE: 205167

Parameter	Units	2630064013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1430	1420	0	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch:	44706	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	2629875023		

LABORATORY CONTROL SAMPLE: 205508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	84-108	

SAMPLE DUPLICATE: 205509

Parameter	Units	2630143002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 205510

Parameter	Units	2630050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	205	1	10	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 530342 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

METHOD BLANK: 2832234 Matrix: Water

Associated Lab Samples: 2629875001, 2629875002, 2629875003, 2629875004, 2629875005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/20 00:34	
Fluoride	mg/L	ND	0.10	0.050	03/15/20 00:34	
Sulfate	mg/L	ND	1.0	0.50	03/15/20 00:34	

LABORATORY CONTROL SAMPLE: 2832235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2832236 2832237

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92469145020 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.1	50	50	52.2	55.5	100	107	90-110	6	10		
Fluoride	mg/L	0.46	2.5	2.5	3.1	3.2	104	110	90-110	5	10		
Sulfate	mg/L	8.2	50	50	58.4	61.5	100	107	90-110	5	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2832238 2832239

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629779009 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	7.4	50	50	58.1	58.4	101	102	90-110	0	10		
Fluoride	mg/L	0.069J	2.5	2.5	2.7	2.8	107	108	90-110	1	10		
Sulfate	mg/L	176	50	50	222	221	92	91	90-110	0	10		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 530793 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009, 2629875010, 2629875011

METHOD BLANK: 2834329 Matrix: Water
 Associated Lab Samples: 2629875006, 2629875007, 2629875008, 2629875009, 2629875010, 2629875011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/17/20 10:58	
Fluoride	mg/L	ND	0.10	0.050	03/17/20 10:58	
Sulfate	mg/L	ND	1.0	0.50	03/17/20 10:58	

LABORATORY CONTROL SAMPLE: 2834330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2834331 2834332

Parameter	Units	2629967011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	51.9	52.6	98	100	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.0	116	120	90-110	3	10 M1	
Sulfate	mg/L	15.1	50	50	63.2	64.0	96	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2834333 2834334

Parameter	Units	2630017004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.1	50	50	59.7	60.0	99	100	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	109	111	90-110	1	10 M1	
Sulfate	mg/L	89.3	50	50	126	126	74	74	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

QC Batch: 530795 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

METHOD BLANK: 2834341 Matrix: Water
 Associated Lab Samples: 2629875012, 2629875013, 2629875014, 2629875015, 2629875016, 2629875017, 2629875018, 2629875019, 2629875020, 2629875021, 2629875022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/17/20 18:18	
Fluoride	mg/L	ND	0.10	0.050	03/17/20 18:18	
Sulfate	mg/L	ND	1.0	0.50	03/17/20 18:18	

LABORATORY CONTROL SAMPLE: 2834342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2834343 2834344

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629875012 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.3	50	50	52.3	52.6	100	100	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	104	90-110	1	10		
Sulfate	mg/L	4.3	50	50	54.6	54.9	101	101	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2834345 2834346

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2629875022 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50.3	50.5	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.9	2.8	114	111	90-110	3	10 M1		
Sulfate	mg/L	ND	50	50	50.7	50.7	101	101	90-110	0	10		

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QUALITY CONTROL DATA

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

QC Batch: 531364 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2629875023

METHOD BLANK: 2837011 Matrix: Water
 Associated Lab Samples: 2629875023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/19/20 16:37	
Fluoride	mg/L	ND	0.10	0.050	03/19/20 16:37	
Sulfate	mg/L	ND	1.0	0.50	03/19/20 16:37	

LABORATORY CONTROL SAMPLE: 2837012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837013 2837014

Parameter	Units	2630073003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chloride	mg/L	ND	50	50	50.4	51.3	101	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	ND	50	50	50.6	51.4	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2837015 2837016

Parameter	Units	2630125015 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chloride	mg/L	1.3	50	50	51.9	52.8	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	2	10	
Sulfate	mg/L	2.1	50	50	53.3	54.2	102	104	90-110	2	10	

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QUALIFIERS

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF CELLS 9 & 10
 Pace Project No.: 2629875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629875001	GWA-41				
2629875002	GWA-42				
2629875006	GWA-39RZ				
2629875007	GWA-39Z				
2629875008	GWA-40				
2629875009	GWA-41R				
2629875010	GWA-43				
2629875011	GWA-43R				
2629875012	GWC-47				
2629875013	GWC-47R				
2629875014	GWC-48				
2629875015	GWC-49Z				
2629875016	GWC-44				
2629875017	GWC-45				
2629875018	GWC-45R				
2629875019	GWC-46R				
2629875023	GWC-49R				
2629875001	GWA-41	EPA 3010A	44554	EPA 6010D	44569
2629875002	GWA-42	EPA 3010A	44554	EPA 6010D	44569
2629875003	FBL030620	EPA 3010A	44554	EPA 6010D	44569
2629875004	EQBL030620	EPA 3010A	44554	EPA 6010D	44569
2629875005	DUP-1	EPA 3010A	44554	EPA 6010D	44569
2629875006	GWA-39RZ	EPA 3010A	44703	EPA 6010D	44716
2629875007	GWA-39Z	EPA 3010A	44703	EPA 6010D	44716
2629875008	GWA-40	EPA 3010A	44703	EPA 6010D	44716
2629875009	GWA-41R	EPA 3010A	44703	EPA 6010D	44716
2629875010	GWA-43	EPA 3010A	44838	EPA 6010D	44858
2629875011	GWA-43R	EPA 3010A	44838	EPA 6010D	44858
2629875012	GWC-47	EPA 3010A	44838	EPA 6010D	44858
2629875013	GWC-47R	EPA 3010A	44838	EPA 6010D	44858
2629875014	GWC-48	EPA 3010A	44838	EPA 6010D	44858
2629875015	GWC-49Z	EPA 3010A	44838	EPA 6010D	44858
2629875016	GWC-44	EPA 3010A	44838	EPA 6010D	44858
2629875017	GWC-45	EPA 3010A	44838	EPA 6010D	44858
2629875018	GWC-45R	EPA 3010A	44838	EPA 6010D	44858
2629875019	GWC-46R	EPA 3010A	44838	EPA 6010D	44858
2629875020	DUP-2	EPA 3010A	44838	EPA 6010D	44858
2629875021	FBL031020	EPA 3010A	44838	EPA 6010D	44858
2629875022	EQBL031020	EPA 3010A	44838	EPA 6010D	44858
2629875023	GWC-49R	EPA 3010A	44863	EPA 6010D	44867
2629875001	GWA-41	EPA 3005A	44555	EPA 6020B	44562
2629875002	GWA-42	EPA 3005A	44617	EPA 6020B	44630
2629875003	FBL030620	EPA 3005A	44617	EPA 6020B	44630
2629875004	EQBL030620	EPA 3005A	44617	EPA 6020B	44630
2629875005	DUP-1	EPA 3005A	44617	EPA 6020B	44630
2629875006	GWA-39RZ	EPA 3005A	44617	EPA 6020B	44630

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629875007	GWA-39Z	EPA 3005A	44617	EPA 6020B	44630
2629875008	GWA-40	EPA 3005A	44679	EPA 6020B	44684
2629875009	GWA-41R	EPA 3005A	44679	EPA 6020B	44684
2629875010	GWA-43	EPA 3005A	44679	EPA 6020B	44684
2629875011	GWA-43R	EPA 3005A	44679	EPA 6020B	44684
2629875012	GWC-47	EPA 3005A	44679	EPA 6020B	44684
2629875013	GWC-47R	EPA 3005A	44679	EPA 6020B	44684
2629875014	GWC-48	EPA 3005A	44679	EPA 6020B	44684
2629875015	GWC-49Z	EPA 3005A	44679	EPA 6020B	44684
2629875016	GWC-44	EPA 3005A	44679	EPA 6020B	44684
2629875017	GWC-45	EPA 3005A	44679	EPA 6020B	44684
2629875018	GWC-45R	EPA 3005A	44679	EPA 6020B	44684
2629875019	GWC-46R	EPA 3005A	44679	EPA 6020B	44684
2629875020	DUP-2	EPA 3005A	44679	EPA 6020B	44684
2629875021	FBL031020	EPA 3005A	44679	EPA 6020B	44684
2629875022	EQBL031020	EPA 3005A	44679	EPA 6020B	44684
2629875023	GWC-49R	EPA 3005A	44725	EPA 6020B	44728
2629875001	GWA-41	EPA 7470A	44498	EPA 7470A	44524
2629875002	GWA-42	EPA 7470A	44498	EPA 7470A	44524
2629875003	FBL030620	EPA 7470A	44498	EPA 7470A	44524
2629875004	EQBL030620	EPA 7470A	44498	EPA 7470A	44524
2629875005	DUP-1	EPA 7470A	44498	EPA 7470A	44524
2629875006	GWA-39RZ	EPA 7470A	44687	EPA 7470A	44691
2629875007	GWA-39Z	EPA 7470A	44687	EPA 7470A	44691
2629875008	GWA-40	EPA 7470A	44687	EPA 7470A	44691
2629875009	GWA-41R	EPA 7470A	44687	EPA 7470A	44691
2629875010	GWA-43	EPA 7470A	44687	EPA 7470A	44691
2629875011	GWA-43R	EPA 7470A	44687	EPA 7470A	44691
2629875012	GWC-47	EPA 7470A	44687	EPA 7470A	44691
2629875013	GWC-47R	EPA 7470A	44687	EPA 7470A	44691
2629875014	GWC-48	EPA 7470A	44687	EPA 7470A	44691
2629875015	GWC-49Z	EPA 7470A	44687	EPA 7470A	44691
2629875016	GWC-44	EPA 7470A	44687	EPA 7470A	44691
2629875017	GWC-45	EPA 7470A	44687	EPA 7470A	44691
2629875018	GWC-45R	EPA 7470A	44687	EPA 7470A	44691
2629875019	GWC-46R	EPA 7470A	44687	EPA 7470A	44691
2629875020	DUP-2	EPA 7470A	44687	EPA 7470A	44691
2629875021	FBL031020	EPA 7470A	44687	EPA 7470A	44691
2629875022	EQBL031020	EPA 7470A	44687	EPA 7470A	44691
2629875023	GWC-49R	EPA 7470A	44687	EPA 7470A	44691
2629875001	GWA-41	SM 2540C	44563		
2629875002	GWA-42	SM 2540C	44563		
2629875003	FBL030620	SM 2540C	44563		
2629875004	EQBL030620	SM 2540C	44563		
2629875005	DUP-1	SM 2540C	44563		
2629875006	GWA-39RZ	SM 2540C	44628		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT BOWEN LF CELLS 9 & 10

Pace Project No.: 2629875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2629875007	GWA-39Z	SM 2540C	44628		
2629875008	GWA-40	SM 2540C	44628		
2629875009	GWA-41R	SM 2540C	44628		
2629875010	GWA-43	SM 2540C	44628		
2629875011	GWA-43R	SM 2540C	44628		
2629875012	GWC-47	SM 2540C	44628		
2629875013	GWC-47R	SM 2540C	44628		
2629875014	GWC-48	SM 2540C	44628		
2629875015	GWC-49Z	SM 2540C	44628		
2629875016	GWC-44	SM 2540C	44652		
2629875017	GWC-45	SM 2540C	44652		
2629875018	GWC-45R	SM 2540C	44652		
2629875019	GWC-46R	SM 2540C	44652		
2629875020	DUP-2	SM 2540C	44652		
2629875021	FBL031020	SM 2540C	44652		
2629875022	EQBL031020	SM 2540C	44652		
2629875023	GWC-49R	SM 2540C	44706		
2629875001	GWA-41	EPA 300.0 Rev 2.1 1993	530342		
2629875002	GWA-42	EPA 300.0 Rev 2.1 1993	530342		
2629875003	FBL030620	EPA 300.0 Rev 2.1 1993	530342		
2629875004	EQBL030620	EPA 300.0 Rev 2.1 1993	530342		
2629875005	DUP-1	EPA 300.0 Rev 2.1 1993	530342		
2629875006	GWA-39RZ	EPA 300.0 Rev 2.1 1993	530793		
2629875007	GWA-39Z	EPA 300.0 Rev 2.1 1993	530793		
2629875008	GWA-40	EPA 300.0 Rev 2.1 1993	530793		
2629875009	GWA-41R	EPA 300.0 Rev 2.1 1993	530793		
2629875010	GWA-43	EPA 300.0 Rev 2.1 1993	530793		
2629875011	GWA-43R	EPA 300.0 Rev 2.1 1993	530793		
2629875012	GWC-47	EPA 300.0 Rev 2.1 1993	530795		
2629875013	GWC-47R	EPA 300.0 Rev 2.1 1993	530795		
2629875014	GWC-48	EPA 300.0 Rev 2.1 1993	530795		
2629875015	GWC-49Z	EPA 300.0 Rev 2.1 1993	530795		
2629875016	GWC-44	EPA 300.0 Rev 2.1 1993	530795		
2629875017	GWC-45	EPA 300.0 Rev 2.1 1993	530795		
2629875018	GWC-45R	EPA 300.0 Rev 2.1 1993	530795		
2629875019	GWC-46R	EPA 300.0 Rev 2.1 1993	530795		
2629875020	DUP-2	EPA 300.0 Rev 2.1 1993	530795		
2629875021	FBL031020	EPA 300.0 Rev 2.1 1993	530795		
2629875022	EQBL031020	EPA 300.0 Rev 2.1 1993	530795		
2629875023	GWC-49R	EPA 300.0 Rev 2.1 1993	531364		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
 The owner/producer is a LEGAL DOCUMENT. All animals being analyzed are

WD# : 2629875



2629875

Client Name: _____
 Client Address: _____
 Client Phone: _____
 Client Email: _____
 Client ID: _____
 Date of Birth: _____
 Breed: _____
 Sex: _____
 Color: _____

SAMPLE ID	COLLECTOR	DATE	TIME	LOCATION	TYPE	ANALYSIS
		TIME	TIME	TIME	TIME	TIME

1	Sample 1	2/1/18	10:00	Sample 1	Saliva	Saliva	2/1/18	10:00	Sample 1	Saliva	2/1/18	10:00
2	Sample 2	2/1/18	11:00	Sample 2	Saliva	Saliva	2/1/18	11:00	Sample 2	Saliva	2/1/18	11:00
3	Sample 3	2/1/18	12:00	Sample 3	Saliva	Saliva	2/1/18	12:00	Sample 3	Saliva	2/1/18	12:00
4	Sample 4	2/1/18	13:00	Sample 4	Saliva	Saliva	2/1/18	13:00	Sample 4	Saliva	2/1/18	13:00
5	Sample 5	2/1/18	14:00	Sample 5	Saliva	Saliva	2/1/18	14:00	Sample 5	Saliva	2/1/18	14:00

Sample Condition Upon Receipt

Place Analytical

Client Name: C. A. Power

Project # _____

WO#: 2629875

Gender: Female Male URS USPS Child Commercial Place of Birth _____

Tracking #: 391045257431

PR: 101 Due Date: 01/23/28

Custody Seal on Container Present: Yes No Seal intact: Yes No

CLIENT: 26-6A Power

Packing Material: Bubble Wrap Bubble Bags Foam Other _____

Thermometer Used: 230 Type of Ice: Dry Blue None Samples on ice cooling process not begun

Cooler Temperature: 2.3 Biological Tissue in Process: Yes No

Temperature to be used during storage: _____ Comments: _____

Date and location of specimen sampling: 3/19/2024

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2
Chain of Custody Requisitioned	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3
Sample Name & Signature on CDC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4
Sample Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5
Short Hold Time Analysis (RT23):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6
Rush Turn Around Time Requested	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7
Substrate Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9
These Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9
Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10
Filtered volume requested for Unchecked items	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11
Sample Labels match CDC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12
Number Date Time Analysts Matrix	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13
All containers needing preservation are found to be in compliance with EPA recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13
Excessives (e.g. excess POC, OAG or OAG tubes)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13
Samples checked for decontamination	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14
Housekeeping (e.g. Vials, Pipettes)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15
Top Blank Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	16
Top Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	16
Place Top Blank Lot # if purchased:	_____	16

Client Notification/Resolution: _____ Field (Only Reporting) _____

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Reviewer: _____ Date: _____

*Note: Wherever there is a discrepancy between the North Carolina compliance numbers or units of this form and the North Carolina OCA/WR Certification Online (i.e. out of total analytical parameters, out of trip analytical parameters)



Data Evaluation Narrative

Project: Plant Bowen CCR Event # 14 Groundwater Detection Monitoring/

Semiannual State Design and Operation Permit Monitoring

Wood Project Number: 6122160287.2003.****

Site: Landfill Cells 1&2 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG Nos: 2630125 & 2630143

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 14 Groundwater Detection Monitoring Sampling and the Semiannual State Design and Operation (D&O) Permit sampling event conducted at Landfill Cells 1 & 2 at Plant Bowen, located in Cartersville, Georgia in September 2019 for Southern Company Services (SCS). The samples were collected and analyzed per the protocols presented in the Plant Bowen *Field Sampling Plan* (FSP), Revision 1, Update 3 (Amec Foster Wheeler, 2017). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. <i>SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.</i>
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

<u>Qualifier</u>	<u>Unusable Data</u>
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6010D, SW6020B, SW7470A, EPA 300.0, and SM 2540C.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for CCR Appendix III metals and State D&O Permit metals by Method SW6020B, calcium by SW6010D, mercury by Method SW7470, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and/or quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
GWC-13	03/13/20	II	GWC-10R	03/12/20	II
GWC-14Z	03/13/20	II	GWC-11	03/12/20	II
GWC-15R	03/13/20	II	GWC-11R	03/12/20	II
GWC-15Z	03/13/20	II	GWC-12	03/12/20	II
GWA-1	03/11/20	II	GWC-5	03/16/20	II
GWA-2	03/11/20	II	GWC-8Z	03/16/20	II
GWA-2R	03/11/20	II	GWC-13RZ	03/17/20	II
GWA-3	03/11/20	II	<u>QC Samples</u>		
GWA-50	03/11/20	II	FBL031120	03/11/20	II
GWA-50R	03/11/20	II	EQBL031120	03/11/20	II
GWA-4RZ	03/12/20	II	DUP-1	03/11/20	II
GWC-6	03/12/20	II	FBL031220	03/12/20	II
GWC-6RZ	03/12/20	II	EQBL031220	03/12/20	II
GWC-7Z	03/12/20	II	DUP-2	03/12/20	II
GWC-8RR	03/12/20	II	FBL031320	03/13/20	II
GWC-9	03/12/20	II	EQBL031320	03/13/20	II
GWC-10	03/12/20	II	DUP-3	03/13/20	II

These samples were collected from Landfill Cells 1&2 on March 11-13, 2020 and March 16-17, 2020. Sample Dup-1 is a field duplicate of sample GWA-2R, Dup-2 is a field duplicate of sample GWC-11R, and Dup-3 is a field duplicate of sample GWC-15Z. Samples FBL031120, FBL031220, and FBL031320 are field blanks and samples EQBL031120, EQBL031220, and EQBL031320 are equipment blanks. Three equipment blanks were collected on different equipment used to sample the locations:

EQBL031120 collected on the nitrile gloves
EQBL031220 collected on the tubing
EQBL031320 collected on the bladder pump grab plate

The highest result of any detected analyte between the three equipment blanks was used to qualify associated sample results if necessary.

The analytical results for the metals, anions, and TDS data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6010D/6020B/SW7470A)

The samples were submitted to Pace for CCR Appendix III and State D&O Permit metals by Method SW6010D, SW6020B and/or mercury by SW7470A. The CCR Appendix III metals are: boron (B) and calcium (Ca). The State D&O Permit metals are: antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni), selenium (Se), silver (Ag), thallium (Tl), vanadium (V), and zinc (Zn). Each of the Level II components were within QC limits except for method, field and equipment blank contamination. MS recoveries were outside QC limits for one metal however, no qualification was applied.

Holding Times

The sample analyses were performed within the 6-month and 28-day (for mercury) analysis holding times.

Method Blanks

The method blanks associated with the samples analyzed within this SDG contained antimony, chromium, and zinc at a concentration between the MDL and the RL. Results less than five times the blank are considered not detected as a possible laboratory artifact: **Reason Code: BL**.

Action: The positive antimony, chromium and zinc results less than five times the method blank were qualified as not detected due to possible blank contamination and flagged "U".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Batch MS/MSD analyses for metals were performed on samples GWC-13, GWC-15Z, GWA-50R, GWC-7Z, and DUP-1 and the MS recoveries in samples GWC-15Z and GWC-7Z were outside of QC limits for calcium.

Action: No flags were applied; the parent sample result was greater than 4x the spike amount and corresponding MSD percent recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

Three field duplicate sample pairs were collected with this SDG, and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. The field blanks were reported with detections of chromium, nickel, and zinc; however, method blank contamination resulted in the qualification of chromium and/or zinc in the field blanks. Therefore, the field blanks do not qualify as a representative determinant of chromium and zinc contamination. Equipment blank samples EQBL031120, EQBL031220 and EQBL031320 contained one or more of the following analytes: chromium, copper and zinc. All of the equipment blanks in Cells 1 & 2 contained concentrations of chromium and zinc and were qualified due to method blank contamination in their respective SDG. Therefore, the equipment blanks in Cells 1 & 2 do not qualify as representative determinants of field and sampling accuracy for chromium and zinc. Results less than five times the field and/or equipment blank are considered "not detected" as a possible field artifact. **Reason Code: BE, BF:**

Action: No qualification was applied to chromium and zinc results based on field or equipment blanks due to method blank contamination; the blank results were flagged "U". The positive copper and nickel results less than five times the method blank were qualified as not detected due to possible blank contamination and flagged "U*".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6020B and SW7470A. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range. None of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

Total and Dissolved Metals Comparison

If total and dissolved metals samples were collected, comparison of the total and dissolved results can aid in the representativeness of the total metals value versus the metals that may be associated with suspended solids and metals actually dissolved within the water column. The dissolved metals results should be less than or equal to the total metals concentration for positive results greater than 5 times the RL. No total and dissolved samples were collected and reported in this SDG.

Anions (EPA 300.0)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300.0. Each of the Level II components were within the QC limits with the exception of blank contamination.

Holding Times

The sample analyses were performed within the 28-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed in this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The batch MS/MSD for anions was performed sample GWC-6 and FBL031120 and the percent recoveries and RPDs were within QC limits.

Field Duplicate Precision

Three field duplicate sample pairs were collected with this SDG, and the RPDs were within QC limits with the following exception: the RPD was outside of QC limits for sulfate in the GWC-11R/DUP-2 pair.

Action: No qualification of the sulfate results because the results were less than 5x the RL and were flagged as not detected due to blank contamination "U".*

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. The field and equipment blanks were reported with detections of sulfate and fluoride. Results less than five times the field and/or equipment blank are considered "not detected" as a possible field artifact. **Reason Code: BE, BF:**

Action: The positive sulfate and fluoride results less than five times the method blank were qualified as not detected due to possible blank contamination and flagged "U".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300 and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM 2540C)

The samples were submitted to Pace for TDS by Method SM 2540C. Each of the Level II components were within the QC limits with the exception of field duplicate precision.

Holding Times

The sample analyses were performed within the 7-day analysis holding times.

Method Blanks

The analytical method does not require the analysis of a method blank.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Field Duplicate Precision

Three field duplicate samples were collected with these SDGs, and the RPDs were within QC limits with the following exceptions: the GWA-2R/DUP-1 and GWC-15Z/DUP-3 pairs were outside of the RPD QC limit for TDS due to analyst error (see the attached communication from Pace).

Action: The TDS results for samples GWA-2R, DUP-1, GWC-15Z, and DUP-3 were qualified as estimated and flagged "J".

Laboratory Duplicate Precision

The laboratory analyzed a duplicate sample of GWC-11, FBL031120 and Dup-2 and the RPDs were within QC limits indicating good method precision.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field and equipment blanks associated with the samples in this SDG did not contain TDS.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM 2540C and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however no TDS results were reported between the MDL and RL.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and validation SOPs. No professional judgment was used to modify flags for results reported in samples presented in this SDG.

Completeness

A total of 24 wells, along with the required QC samples, were sampled and analyzed during the March event in Landfill Cells 1&2 according to the FSP (Amec Foster Wheeler, 2017). The 24 well locations along with field and equipment blank samples were reported in this SDG and were sampled and analyzed as scoped.

Therefore, both field and analytical completeness calculated for this SDG was 100%.

References

Amec Foster Wheeler, 2017. *Field Sampling Plan – Plant Bowen*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), Revision 1, Update 3, October 16, 2017.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: JPM 04/14/20

Checked by/Date: JAH 04/15/20

Revised by/Date: DWK 05/13/20

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP
SAMPLING DATE: March 11-13, 2020 and March 16-17, 2020
Plant Bowen Landfill Cells 1 & 2: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
EQBL-031120	Equipment Blank	EB	2630143	6020B	chromium	0.00092	J	U*	BL	mg/L
EQBL-031120	Equipment Blank	EB	2630143	6020B	zinc	0.0028	J	U*	BL	mg/L
EQBL-031220	Equipment Blank	EB	2630143	6020B	chromium	0.00077	J	U*	BL	mg/L
EQBL-031220	Equipment Blank	EB	2630143	6020B	copper	0.00019	J	J	--	mg/L
EQBL-031220	Equipment Blank	EB	2630143	6020B	zinc	0.0027	J	U*	BL	mg/L
EQBL-031320	Equipment Blank	EB	2630143	300.0	sulfate	0.065	J	J	--	mg/L
EQBL-031320	Equipment Blank	EB	2630143	6020B	chromium	0.001	J	U*	BL	mg/L
EQBL-031320	Equipment Blank	EB	2630143	6020B	zinc	0.0033	J	U*	BL	mg/L
FBL-031120	Field Blank	FB	2630143	6020B	chromium	0.002	J	U*	BL	mg/L
FBL-031120	Field Blank	FB	2630143	6020B	nickel	0.00081	J	J	--	mg/L
FBL-031120	Field Blank	FB	2630143	6020B	zinc	0.0024	J	U*	BL	mg/L
FBL-031220	Field Blank	FB	2630143	300.0	sulfate	0.99	J	J	--	mg/L
FBL-031220	Field Blank	FB	2630143	6020B	chromium	0.0026	J	U*	BL	mg/L
FBL-031220	Field Blank	FB	2630143	6020B	zinc	0.0027	J	U*	BL	mg/L
FBL-031320	Field Blank	FB	2630143	300.0	fluoride	0.16	J	J	--	mg/L
FBL-031320	Field Blank	FB	2630143	6020B	zinc	0.0022	J	U*	BL	mg/L
GWA-1	GWA-1	N	2630125	300.0	fluoride	0.052	J	U*	BE, BF	mg/L
GWA-1	GWA-1	N	2630125	300.0	sulfate	0.94	J	U*	BE, BF	mg/L
GWA-1	GWA-1	N	2630125	6020B	antimony	0.00079	J	U*	BL	mg/L
GWA-1	GWA-1	N	2630125	6020B	arsenic	0.00088	J	J	--	mg/L
GWA-1	GWA-1	N	2630125	6020B	chromium	0.0012	J	U*	BL	mg/L
GWA-1	GWA-1	N	2630125	6020B	cobalt	0.00037	J	J	--	mg/L
GWA-1	GWA-1	N	2630125	6020B	nickel	0.00068	J	U*	BF	mg/L
GWA-1	GWA-1	N	2630125	6020B	zinc	0.0035	J	U*	BL	mg/L
GWA-2	GWA-2	N	2630125	6020B	boron	0.0068	J	J	--	mg/L
GWA-2	GWA-2	N	2630125	6020B	chromium	0.0025	J	U*	BL	mg/L
GWA-2	GWA-2	N	2630125	6020B	copper	0.002	J	U*	BE	mg/L
GWA-2	GWA-2	N	2630125	6020B	nickel	0.0014	J	U*	BF	mg/L
GWA-2	GWA-2	N	2630125	6020B	selenium	0.0021	J	J	--	mg/L
GWA-2	GWA-2	N	2630125	6020B	zinc	0.0028	J	U*	BL	mg/L
GWA-2R	GWA-2R	N	2630125	300.0	chloride	0.6	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	300.0	fluoride	0.052	J	U*	BE, BF	mg/L
GWA-2R	GWA-2R	N	2630125	2540C	total dissolved solids	170		J	FD	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	antimony	0.002	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	300.0	arsenic	0.00044	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	boron	0.017	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	chromium	0.0042	J	U*	BL	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	copper	0.0011	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	lead	0.000058	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	nickel	0.002	J	U*	BF	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	vanadium	0.00084	J	J	--	mg/L
GWA-2R	GWA-2R	N	2630125	6020B	zinc	0.0038	J	U*	BL	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP
SAMPLING DATE: March 11-13, 2020 and March 16-17, 2020
Plant Bowen Landfill Cells 1 & 2: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
DUP-1	GWA-2R	FD	2630125	300.0	chloride	0.67	J	J	--	mg/L
DUP-1	GWA-2R	FD	2630125	300.0	fluoride	0.057	J	U*	BE, BF	mg/L
DUP-1	GWA-2R	FD	2630125	2540C	total dissolved solids	249		J	FD	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	antimony	0.002	J	J	--	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	boron	0.022	J	J	--	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	chromium	0.0014	J	U*	BL	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	copper	0.00095	J	U*	BE	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	lead	0.000051	J	J	--	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	nickel	0.00032	J	U*	BF	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	thallium	0.000076	J	J	--	mg/L
DUP-1	GWA-2R	FD	2630125	6020B	zinc	0.0033	J	J	--	mg/L
GWA-3	GWA-3	N	2630125	6020B	barium	0.0041	J	J	--	mg/L
GWA-3	GWA-3	N	2630125	6020B	boron	0.0071	J	J	--	mg/L
GWA-3	GWA-3	N	2630125	6020B	chromium	0.00095	J	U*	BL	mg/L
GWA-3	GWA-3	N	2630125	6020B	cobalt	0.00041	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	300.0	fluoride	0.18	J	U*	BE, BF	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	antimony	0.0017	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	arsenic	0.0033	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	boron	0.014	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	copper	0.0002	J	U*	BE	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	nickel	0.00034	J	U*	BF	mg/L
GWA-4RZ	GWA-4RZ	N	2630125	6020B	zinc	0.0027	J	U*	BE, BF	mg/L
GWA-50	GWA-50	N	2630125	300.0	chloride	0.91	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	6020B	antimony	0.005	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	6020B	barium	0.0077	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	6020B	boron	0.0063	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	6020B	chromium	0.0011	J	U*	BL	mg/L
GWA-50	GWA-50	N	2630125	6020B	copper	0.0026	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	6020B	nickel	0.00084	J	U*	BF	mg/L
GWA-50	GWA-50	N	2630125	6020B	silver	0.00039	J	J	--	mg/L
GWA-50	GWA-50	N	2630125	300.0	zinc	0.0025	J	U*	BE, BF	mg/L
GWA-50R	GWA-50R	N	2630125	300.0	chloride	0.73	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	300.0	sulfate	0.85	J	U*	BE, BF	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	barium	0.0095	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	boron	0.007	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	copper	0.0035	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	nickel	0.001	J	U*	BF	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	silver	0.0013	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	thallium	0.000059	J	J	--	mg/L
GWA-50R	GWA-50R	N	2630125	6020B	zinc	0.0033	J	U*	BE, BF	mg/L
GWC-10	GWC-10	N	2630125	300.0	sulfate	1.3		U*	BE, BF	mg/L
GWC-10	GWC-10	N	2630125	6020B	beryllium	0.00017	J	J	--	mg/L

TABLE 1
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SAMPLE DELIVERY GROUP
SAMPLING DATE: March 11-13, 2020 and March 16-17, 2020
Plant Bowen Landfill Cells 1 & 2: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-10	GWC-10	N	2630125	6020B	chromium	0.00047	J	U*	BE, BF	mg/L
GWC-10	GWC-10	N	2630125	6020B	cobalt	0.0017	J	J	--	mg/L
GWC-10	GWC-10	N	2630125	6020B	nickel	0.0015	J	U*	BF	mg/L
GWC-10	GWC-10	N	2630125	6020B	zinc	0.0024	J	U*	BE, BF	mg/L
GWC-10R	GWC-10R	N	2630125	300.0	sulfate	0.99	J	U*	BE, BF	mg/L
GWC-10R	GWC-10R	N	2630125	6020B	boron	0.005	J	J	--	mg/L
GWC-10R	GWC-10R	N	2630125	6020B	nickel	0.00043	J	U*	BF	mg/L
GWC-10R	GWC-10R	N	2630125	6020B	thallium	0.000054	J	J	--	mg/L
GWC-10R	GWC-10R	N	2630125	6020B	zinc	0.0027	J	U*	BE, BF	mg/L
GWC-11	GWC-11	N	2630125	300.0	sulfate	1.8		U*	BE	mg/L
GWC-11	GWC-11	N	2630125	6020B	antimony	0.0013	J	J	--	mg/L
GWC-11	GWC-11	N	2630125	6020B	barium	0.0086	J	J	--	mg/L
GWC-11	GWC-11	N	2630125	6020B	chromium	0.00084	J	U*	BL	mg/L
GWC-11	GWC-11	N	2630125	6020B	copper	0.00023	J	U*	BE	mg/L
GWC-11	GWC-11	N	2630125	6020B	lead	0.000052	J	J	--	mg/L
GWC-11	GWC-11	N	2630125	6020B	zinc	0.0038	J	U*	BE, BF	mg/L
GWC-11R	GWC-11R	N	2630125	300.0	sulfate	1.5		U*	BE	mg/L
GWC-11R	GWC-11R	N	2630125	6020B	antimony	0.001	J	J	--	mg/L
GWC-11R	GWC-11R	N	2630125	300.0	arsenic	0.0012	J	J	--	mg/L
GWC-11R	GWC-11R	N	2630125	300.0	boron	0.0058	J	J	--	mg/L
GWC-11R	GWC-11R	N	2630125	6020B	chromium	0.0042	J	U*	BE, BF	mg/L
GWC-11R	GWC-11R	N	2630125	6020B	copper	0.00032	J	U*	BE	mg/L
GWC-11R	GWC-11R	N	2630125	6020B	lead	0.000046	J	J	--	mg/L
GWC-11R	GWC-11R	N	2630125	6020B	zinc	0.0053	J	U*	BE, BF	mg/L
DUP-2	GWC-11R	FD	2630125	300.0	sulfate	3.2		U*	BE	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	antimony	0.0011	J	U*	BL	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	arsenic	0.0012	J	J	--	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	chromium	0.0048	J	U*	BL	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	copper	0.00041	J	U*	BE	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	lead	0.000052	J	J	--	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	vanadium	0.001	J	J	--	mg/L
DUP-2	GWC-11R	FD	2630125	6020B	zinc	0.0053	J	U*	BL	mg/L
GWC-12	GWC-12	N	2630125	300.0	chloride	0.84	J	J	--	mg/L
GWC-12	GWC-12	N	2630125	6020B	cadmium	0.00089	J	J	--	mg/L
GWC-12	GWC-12	N	2630125	6020B	cobalt	0.0031	J	J	--	mg/L
GWC-12	GWC-12	N	2630125	6020B	nickel	0.0022	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	antimony	0.0023	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	arsenic	0.00096	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	beryllium	0.00008	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	boron	0.014	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	chromium	0.0054	J	U*	BL	mg/L
GWC-13	GWC-13	N	2630125	6020B	copper	0.00033	J	U*	BE	mg/L

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SAMPLE DELIVERY GROUP
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Plant Bowen Landfill Cells 1 & 2: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-13	GWC-13	N	2630125	6020B	lead	0.00013	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	selenium	0.0019	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	vanadium	0.002	J	J	--	mg/L
GWC-13	GWC-13	N	2630125	6020B	zinc	0.0043	J	J	BL	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	300.0	fluoride	0.11	J	U*	BE, BF	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	antimony	0.009	J	U*	BL	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	arsenic	0.00067	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	boron	0.017	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	chromium	0.002	J	U*	BE, BF	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	copper	0.00045	J	U*	BE	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	nickel	0.00082	J	U*	BF	mg/L
GWC-13RZ	GWC-13RZ	N	2630125	6020B	zinc	0.0057	J	U*	BL	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	antimony	0.00053	J	U*	BL	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	beryllium	0.00016	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	boron	0.0081	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	chromium	0.00093	J	U*	BL	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	nickel	0.00078	J	U*	BF	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	selenium	0.0016	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	2630125	6020B	zinc	0.0028	J	U*	BL	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	antimony	0.00056	J	U*	BL	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	arsenic	0.00047	J	J	--	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	boron	0.0064	J	J	--	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	chromium	0.0011	J	U*	BL	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	copper	0.00029	J	U*	BE	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	lead	0.00037	J	J	--	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	nickel	0.00072	J	U*	BF	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	vanadium	0.00077	J	J	--	mg/L
GWC-15R	GWC-15R	N	2630125	6020B	zinc	0.0057	J	U*	BL	mg/L
GWC-15Z	GWC-15Z	N	2630125	300.0	chloride	0.7	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	2630125	300.0	sulfate	1.1		U*	BE, BF	mg/L
GWC-15Z	GWC-15Z	N	2630125	300.0	total dissolved solids	76		J	FD	mg/L
GWC-15Z	GWC-15Z	N	2630125	300.0	arsenic	0.00052	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	2630125	2540C	boron	0.0054	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	2630125	6020B	chromium	0.0012	J	U*	BL	mg/L
GWC-15Z	GWC-15Z	N	2630125	6020B	copper	0.0002	J	U*	BE	mg/L
GWC-15Z	GWC-15Z	N	2630125	6020B	lead	0.000048	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	2630125	6020B	vanadium	0.00095	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	2630125	6020B	zinc	0.0026	J	U*	BL	mg/L
DUP-3	GWC-15Z	FD	2630125	300.0	chloride	0.86	J	J	--	mg/L
DUP-3	GWC-15Z	FD	2630125	300.0	fluoride	0.4		U*	BE, BF	mg/L
DUP-3	GWC-15Z	FD	2630125	300.0	sulfate	1.2		U*	BE, BF	mg/L
DUP-3	GWC-15Z	FD	2630125	6020B	total dissolved solids	100		J	FD	mg/L

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Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
DUP-3	GWC-15Z	FD	2630125	6020B	arsenic	0.00069	J	J	--	mg/L
DUP-3	GWC-15Z	FD	2630125	6020B	chromium	0.0012	J	U*	BL	mg/L
DUP-3	GWC-15Z	FD	2630125	6020B	lead	0.000073	J	J	--	mg/L
DUP-3	GWC-15Z	FD	2630125	6020B	vanadium	0.0011	J	J	--	mg/L
DUP-3	GWC-15Z	FD	2630125	6020B	zinc	0.0026	J	U*	BL	mg/L
GWC-5	GWC-5	N	2630125	300.0	chloride	0.67	J	J	--	mg/L
GWC-5	GWC-5	N	2630125	300.0	sulfate	1.1		U*	BE, BF	mg/L
GWC-5	GWC-5	N	2630125	6020B	antimony	0.00031	J	U*	BL	mg/L
GWC-5	GWC-5	N	2630125	6020B	beryllium	0.00048	J	J	--	mg/L
GWC-5	GWC-5	N	2630125	6020B	chromium	0.00078	J	U*	BE, BF	mg/L
GWC-5	GWC-5	N	2630125	6020B	cobalt	0.00031	J	J	--	mg/L
GWC-5	GWC-5	N	2630125	6020B	copper	0.012	J	J	--	mg/L
GWC-5	GWC-5	N	2630125	6020B	lead	0.000051	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	300.0	sulfate	2.1	J	U*	BE, BF	mg/L
GWC-6	GWC-6	N	2630125	6020B	antimony	0.00052	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	6020B	arsenic	0.00055	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	6020B	barium	0.0075	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	6020B	boron	0.0061	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	6020B	chromium	0.0034	J	U*	BE, BF	mg/L
GWC-6	GWC-6	N	2630125	6020B	lead	0.0001	J	J	--	mg/L
GWC-6	GWC-6	N	2630125	6020B	zinc	0.0042	J	U*	BE, BF	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	300.0	sulfate	1.4	J	U*	BE, BF	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	antimony	0.0011	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	barium	0.0072	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	beryllium	0.000093	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	boron	0.0052	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	chromium	0.0028	J	U*	BE, BF	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	copper	0.00028	J	U*	BE	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	lead	0.00007	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	2630125	6020B	zinc	0.0032	J	U*	BE, BF	mg/L
GWC-7Z	GWC-7Z	N	2630125	300.0	chloride	0.72	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	300.0	sulfate	1.7		U*	BE, BF	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	antimony	0.00066	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	arsenic	0.00044	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	boron	0.0057	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	chromium	0.0014	J	U*	BE, BF	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	cobalt	0.00031	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	copper	0.00021	J	U*	BE	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	lead	0.000082	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	nickel	0.00078	J	U*	BF	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	thallium	0.00022	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	2630125	6020B	zinc	0.0031	J	U*	BE, BF	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP
SAMPLING DATE: March 11-13, 2020 and March 16-17, 2020
Plant Bowen Landfill Cells 1 & 2: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-8RR	GWC-8RR	N	2630125	300.0	chloride	0.93	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	2630125	300.0	sulfate	1.8		U*	BE, BF	mg/L
GWC-8RR	GWC-8RR	N	2630125	6020B	antimony	0.00043	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	2630125	6020B	arsenic	0.00039	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	2630125	6020B	chromium	0.0031	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	2630125	6020B	lead	0.000056	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	2630125	6020B	zinc	0.002	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	2630125	300.0	sulfate	0.66	J	U*	BE, BF	mg/L
GWC-8Z	GWC-8Z	N	2630125	6020B	chromium	0.0015	J	U*	BE, BF	mg/L
GWC-8Z	GWC-8Z	N	2630125	6020B	copper	0.00024	J	U*	BE	mg/L
GWC-8Z	GWC-8Z	N	2630125	6020B	lead	0.00016	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	2630125	6020B	nickel	0.0006	J	U*	BF	mg/L
GWC-8Z	GWC-8Z	N	2630125	6020B	zinc	0.0073	J	U*	BL	mg/L
GWC-9	GWC-9	N	2630125	300.0	sulfate	1.1		U*	BE, BF	mg/L
GWC-9	GWC-9	N	2630125	6020B	beryllium	0.00022	J	J	--	mg/L
GWC-9	GWC-9	N	2630125	6020B	boron	0.0058	J	J	--	mg/L
GWC-9	GWC-9	N	2630125	6020B	chromium	0.00045	J	U*	BE, BF	mg/L
GWC-9	GWC-9	N	2630125	6020B	cobalt	0.00044	J	J	--	mg/L
GWC-9	GWC-9	N	2630125	6020B	copper	0.00031	J	U*	BE	mg/L
GWC-9	GWC-9	N	2630125	6020B	lead	0.00016	J	J	--	mg/L
GWC-9	GWC-9	N	2630125	6020B	nickel	0.0011	J	U*	BF	mg/L
GWC-9	GWC-9	N	2630125	6020B	zinc	0.0045	J	U*	BE, BF	mg/L

Laboratory Qualifiers:

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

Reason Codes:

BE = Equipment blank contamination. The result should be considered "not-detected".

BF = Field blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: JPM 04/14/20

Checked by/Date: JAH 04/15/20

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 2630125 & 2630143

Reviewer/Date: J. McIntyre 04/08/20 **Senior Reviewer/Date:** J. Hartness 04/15/20

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
<input checked="" type="checkbox"/>			Case Narrative and COC Completeness Review OK
<input checked="" type="checkbox"/>			Sample Preservation and cooler temperature met (HNO₃ to pH<2) OK, 3.0, 2.5 and 2.3°C
<input checked="" type="checkbox"/>			Holding times met (180 days; Hg = 28 days) Coll: 03/11/20-03/13/20, 03/16/20-03/17/20 Prep: metals – 03/18/20, 03/23/20-03/26/20 Hg – 03/23/20-03/24/20 Anal: metals: 03/24/20-03/27/20 Hg – 03/24/30, 03/26/20
<input checked="" type="checkbox"/>			QC Blanks Review <u>Method Blanks:</u> <u>SDG 2630125:</u> p. 40 MB 206281 Hg = ND p. 41 MB 206295 Hg = ND p. 42 MB 206570 Hg = ND p. 43-47 MBs (Ca only) 206317, 206402, 206473, 206477 and 206611 = ND p. 48 MB 205651 = Sb – 0.00029J x 5 = 0.00145 , Cr – 0.0013J x 5 = 0.0065 , Zn – 0.0018 J x 5 = 0.009 mg/L Assoc. Sb, Cr, and Zn results < 5x flagged "U*" results < RL become the MDL p. 50 MB 206398 metals = ND p. 48 MB 205651 = Sb – 0.00031J x 5 = 0.00155 , Zn – 0.0019 J x 5 = 0.0095 mg/L Assoc. Sb and Zn results < 5x flagged "U*" results < RL become the MDL p. 54 MB 206699 = Cr – 0.0011J x 5 = 0.0055 Assoc. Cr results < 5x flagged "U*" results < RL become the MDL p. 56 MB 206954 = Cr – 0.00046J x 5 = 0.0023 Assoc. Cr results < 5x flagged "U*" results < RL become the MDL <u>SDG 2630143:</u> p. 17 MB 206281 Hg = ND p. 18 MB (Ca only) 206402 = ND p. 19 MB 205651 = Sb – 0.00029J x 5 = 0.00145 , Cr – 0.0013J x 5 = 0.0065 , Zn – 0.0018 J x 5 = 0.009 mg/L Assoc. Cr, and Zn results < 5x flagged "U*" results < RL become the MDL. Sb results were ND. p. 21 MB 206699 = Cr – 0.0011J x 5 = 0.0055 Assoc. Cr results < 5x flagged "U*" results < RL become the MDL

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

Equipment Blanks: (use highest result to apply flags)

EQBL-031120 = Cr= 0.00092J x5 = 0.0046 mg/L, Zn = 0.0028 x5 = 0.014mg/L

EQBL-031220 = Cr= 0.00077J x5 = 0.0039 mg/L, Cu = 0.00019J x5 = 0.001mg/L, Zn = 0.0027 x5 = 0.014mg/L

EQBL-031320 = Cr= 0.001J x5 = 0.005 mg/L, Zn = 0.0033 x5 = 0.017 mg/L

All EBs chromium and zinc results flagged "U*" due to MB contamination, No flags applied

Assoc. Cu results flagged U* due to EB contamination.

Field Blank:

FBL-031120 = Cr= 0.002J x5 = 0.01 mg/L, Ni = 0.00081J x5 = 0.0041mg/L, Zn = 0.0024 x5 = 0.012mg/L

FB chromium and zinc results flagged "U*" due to MB contamination, No flags applied. Assoc. Ni results flagged U*

FBL-031220 = Cr – 0.0026J x5 = 0.013 mg/L, Zn = 0.0027 x5 = 0.014mg/L

FB chromium and zinc results flagged "U*" due to MB contamination, No flags applied.

FBL-031320 = Zn = 0.0022 J x5 = 0.011 mg/L

FB zinc results flagged "U*" due to MB contamination, No flags applied

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)

SDG 2630125:

p. 40 LCS 206282 Hg = 102%

p. 41 LCS 206296 Hg = 98%

p. 42 LCS 206571 Hg = 106%

p. 43-47 LCSs (Ca only) 206318, 206403, 206474, 206478 and 206612 – All OK

p. 48 LCS 205652 metals = All OK

p. 49 LCS 206399 metals = All OK

p. 52 LCS 206539 metals = All OK

p. 54 LCS 206700 metals = All OK

p. 56 LCS 206955 metals = All OK

SDG 2630143:

p. 17 LCS 206282 Hg = 102%

p. 18 LCSs (Ca only) 206403 = 97%

p. 19 LCS 205652 metals = All OK

p. 21 LCS 206700 metals = All OK

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

Lab Duplicate - Field Duplicate precision goals met (20%)

p. 57 lab dup: non-project sample

	RL	GWA-2R	Dup-1	*Diff/RPD	GWC-11R	Dup-2	*Diff/RPD	GWC-15Z	Dup-3	*Diff/RPD
Sb	0.003	0.002J	0.002J	0	0.001J	0.0011J	0.0001	-	-	-
As	0.005	0.00044J	ND	0.00456	0.0012J	0.0012J	0	0.00052J	0.00069J	0.00016
Ba	0.01	0.027	0.027	0	0.021	0.02	4.9	0.014	0.014	0
B	0.04	0.017J	0.022J	0.005	0.0058J	ND	0.0342	0.0054J	ND	0.0346
Ca	1.0	46.8	47.2	0.9%	32.5	31.3	4	24.2	24.7	2.0
Cr	0.01	0.0042J	0.0014J	0.0028	0.0042J	0.0048J	0.0006	0.0012J	0.0012J	0
Cu	0.025	0.0011J	0.00095J	0.00015	0.00032J	0.00041J	0.00009	0.0002J	ND	0.0248
Pb	0.005	0.000058J	0.000051J	0.000007	0.000046J	0.000052J	0.000006	0.000048J	0.000073J	0.000025
Ni	0.01	0.002J	0.00032J	0.00168	-	-	-	-	-	-
Tl	0.001	ND	0.000076J	0.00092	-	-	-	-	-	-
V	0.01	0.00084J	ND	0.00916	ND	0.001	0.009	0.00095J	0.0011J	0.01
Zn	0.01	0.0038J	0.0033J	0.0005	0.0053J	0.0053J	0	0.0026J	0.0026J	0

**for results <RL, diff is <RL; OK*

Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)

SDG 2630125:

p. 40 (Hg) GWC-13 – 95, 104% RPD = 9 OK

p. 41-42 Hg non-project sample in this SDG

p. 43 Ca non-project sample

p. 44 (Ca) GWC-15Z **133**, 115% RPD = 1 No flags, MSD and RPD OK & result >4x spike amt.

p. 45 (Ca) GWC-7Z **62**, 113% RPD = 2 No flags, MSD and RPD OK & result >4x spike amt.

p. 46-47 Ca non-project sample

p. 49 metals, not a sample of this SDG.

p. 51 GWA-50R metals, All OK

p. 53, 55, 57 metals, not a sample of this SDG.

SDG 2630143:

p. 17 Hg non-project sample in this SDG

p. 18 Ca non-project sample in this SDG

p. 20 metals non-project sample in this SDG

p. 22 DUP-1 metals – All OK

Total metals vs dissolved metals within limits (RPD < 20% or diff. < RL)

No dissolved metals in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 2630125 & 2630143

Reviewer/Date: J. McIntyre 04/08/20 **Senior Reviewer/Date:** J. Hartness 04/15/20

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
<input checked="" type="checkbox"/>			<p>Case Narrative and COC Completeness Review OK</p>
<input checked="" type="checkbox"/>			<p>Sample Preservation and cooler temperature met (Cool to 6°C) OK, 3.0, 2.5 and 2.3°C</p>
<input checked="" type="checkbox"/>			<p>Holding times met (Cl, SO₄, F – 28 days) Coll: 03/11/20-03/13/20, 03/16/20-03/17/20 Anal: 03/18/20-03/21/20</p>
<input checked="" type="checkbox"/>			<p>QC Blanks Review <u>Method Blanks:</u> <u>SDG 2630125:</u> p. 62 MB 2835530 = ND p. 63 MB 2837011 = ND p. 64 MB 2839333 = ND <u>SDG 2630143:</u> p. 27 MB 2835536 = ND p. 28 MB 2837032 = ND p. 29 MB 2838406 = ND p. 30 MB 2839333 = ND</p> <p><u>Equipment Blanks: (use highest result to apply flags)</u> EQBL-031120 = ND EQBL-031220 = sulfate – 1.2 x 5 = 6 mg/L Assoc results flagged U* co flag w/ FB EQBL-031320 = fluoride – 0.065 J x 5 = 0.325 mg/L Assoc results flagged U* co flag w/ FB</p> <p><u>Field Blank:</u> FBL-031120 = ND FBL-031220 = sulfate – 0.99 J x 5 = 4.95 mg/L FBL-031320 = fluoride – 0.16 J x 5 = 0.8 mg/L Dup-3 flagged U* co flag with EB</p>
<input checked="" type="checkbox"/>			<p>Laboratory Control Sample (LCS) recovery within limits (90-110%) <u>SDG 2630125:</u> p. 62 LCS 2835531 – All OK p. 63 LCS 2837012 – All OK p. 64 LCS 2839334 – All OK <u>SDG 2630143:</u> p. 27 LCS 2835537 – All OK p. 28 LCS 2837033 – All OK p. 29 LCS 2838407 – All Ok p. 30 LCS 2839334 – All OK</p>

Anions (chloride, fluoride, sulfate) by EPA 300.0 (cont.)

YES

NO

NA

COMMENTS

Lab Duplicate - Field Duplicate precision goals met (20%)

	GWA-2R	Dup-1	RPD	GWC-11R	Dup-2	RPD	GWC-15Z	Dup-3	RPD
Cl ⁻	0.6J	0.67J	-	1.5	1.5	0	0.7J	0.86J	NC
F ⁻	0.052J	0.057J	-	-	-	-	ND	0.4	ND
SO ₄	34.3	32.1	6.7	1.5	3.2	72.3%	1.1	1.2	8.7

No flags for sulfate for GWC-11R/DUP-2; already flagged for EB contamination – U* > and results below 5x RL

Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)

SDG 2630125:

p. 62, 64 non-project sample of this SDG

p. 63 GWC-6 – %Rec and RPD ok.

SDG 2630143:

p. 27-29 non-project samples in this SDG

p. 30 FBL031120 – All OK

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 2630125 & 2630143

Reviewer/Date: J. McIntyre 04/08/20 **Senior Reviewer/Date:** J. Hartness 04/15/20

Revised/Date: D. Knaub 05/13/20

YES NO NA COMMENTS

- Case Narrative and COC Completeness Review**
OK

- Sample Preservation and cooler temperature met (Cool to 6°C)**
OK; 3.0, 2.5 and 2.3°C

- Holding times met (7 days)**
Coll: 03/11/20-03/13/20, 03/16/20-03/17/20
Anal: 03/17/20-03/21/20

- QC Blanks Review**
Method Blanks (not required for method)
Equipment Blanks:
EQBL031120 = ND
EQBL031220 = ND
EQBL031320 = ND
Field Blank:
FBL031120 TDS = ND
FBL031220 TDS = ND
FBL031320 TDS = ND

- Laboratory Control Sample (LCS) recovery within lab limits**
SDG 2630125:
p. 58 LCS 205508 TDS = 96% - OK p. 59 LCS 205767 TDS = 91% - OK
p. 60 LCS 206142 TDS = 93% - OK p. 61 LCS 206250 TDS = 95% - OK
SDG 2630143
p. 23 LCS 205174 TDS = 108% - OK p. 24 LCS 205508 TDS = 96% - OK
p. 25 LCS 205767 TDS = 91% - OK p. 26 LCS 206142 TDS = 93% - OK

- Lab Duplicate - Field Duplicate precision goals met (20%)**

	GWA-2R	Dup-1	RPD	GWC-11R	Dup-2	RPD	GWC-15Z	Dup-3	RPD
TDS	170	249	37.7%	125	103	19.2	76	100	27.3%

TDS results flagged J for GWA-2R/DUP-1 and GWC-15Z/DUP-3

**See the attached communication from Pace regarding high RPDs*

SDG 2630125 (lab Dups):

p. 58, 60-61 lab dups on non-project samples
p. 59 Lab dups performed on GWC-11 = RPDs OK

SDG 2630143 (lab Dups):

p. 23 Lab dups on non-project samples on this SDG
p. 24 Lab dups performed on FBL031120 = RPDs OK
p. 25 Lab dups performed on DUP-2 = RPDs OK

TDS by SM 2540C (cont.)

YES

NO

NA

COMMENTS

Matrix Spike recoveries and RPDs within limits (if applicable)

No MS/MSD on project sample(s) for TDS in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)



May 8, 2020

Rhonda Quinn
Wood E&I Solutions, Inc. - Kennesaw
1075 Big Shanty RD NW Suite 100, Kennesaw, GA 30144

Dear Rhonda Quinn,

Pace Analytical Services, LLC is committed to providing high quality results and exemplary customer service to our clients. Pace Analytical was asked to investigate why our customer's field duplicate sample TDS and Sulfate precision is continually over 20%. See below table for examples provided.

	GWA-2R	Dup-1	RPD	GWC-11R	Dup-2	RPD	GWC-15Z	Dup-3	RPD
	Lab ID: 2630125010	Lab ID: 2630143001		Lab ID: 2630125022	Lab ID: 2630143004		Lab ID: 2630125004	Lab ID: 2630125005	
TDS	170	249	37%	125	103	19.2	76	100	29%

Pace Analytical Services investigated the %RPD issue into the Total Dissolved Solids (TDS) test. The investigation showed that the root cause was that the samples were not always well homogenized. Training was performed with all analysts who perform solids testing to demonstrate proper sample homogenization technique. Since the training was completed, five TDS batches were performed with no batch sample duplicate over 10%RPD showing that the analysts are homogenizing the samples well.

I confirmed that the lab is following the method and SOP in regards to repeating the drying, cooling and weighing cycle until the constant weight is achieved. Also, I confirmed that the results are being calculated correctly. It should be noted that the analysts do not manually calculate any results. This is done exclusively through software that the entire company of Pace Analytical uses and has been verified that the calculations are correct.

[0] 828-417-6052
Barr.Johnson@pacelabs.com
2225 Riverside Drive, Asheville, NC 28804



PACELABS.COM



Please do not hesitate to contact Kevin Herring or I if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Barry Johnson".

Barry Johnson
Sr. Quality Assurance Manager

[0] 828-417-6052
Barr.Johnson@pacelabs.com
2225 Riverside Drive, Asheville, NC 28804



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Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 14 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2003.****

Site: Landfill Cells 3&4 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG No: 2629786

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 14 Groundwater Detection Monitoring Sampling and the Semiannual State Design and Operation (D&O) Permit sampling event conducted at Landfill Cells 3 & 4 at Plant Bowen, located in Cartersville, Georgia in March 2020. The samples were collected and analyzed per the protocols presented in the Plant Bowen *Field Sampling Plan* (FSP), Revision 1, Update 3 (Amec Foster Wheeler, 2017). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. <i>SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.</i>
UJ	The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier Unusable Data

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed.
- UR The analyte was analyzed for, but was not detected above the level of the reported sample reporting or method detection; however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6010D, SW6020B, SW7470A, EPA 300.0, and SM 2540C.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for CCR Appendix III metals and State D&O Permit metals by Method 6020B, calcium by Method SW6010D, mercury by Method SW7470, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
GWA-51RZ	03/03/20	II	GWC-19R	03/04/20	II
GWA-54	03/03/20	II	GWC-17R	03/05/20	II
GWA-55	03/03/20	II	GWC-18R	03/05/20	II
GWC-21R	03/03/20	II	GWC-20R	03/05/20	II
GWC-22R	03/03/20	II	GWC-23R	03/05/20	II
GWC-24R	03/03/20	II	GWC-18	03/06/20	II
GWC-25R	03/03/20	II	SPRING	03/06/20	II
GWA-36	03/02/20	II	<u>QC Samples</u>		
GWA-36R	03/02/20	II	FBL030220	03/02/20	II
GWA-37	03/02/20	II	EQBL030220	03/02/20	II
GWA-38	03/02/20	II	DUP-1	03/02/20	II
GWA-52	03/02/20	II	FBL030420	03/04/20	II
GWA-53	03/04/20	II	EQBL030420	03/04/20	II
GWA-53R	03/04/20	II	DUP-2	03/04/20	II
GWA-55R	03/04/20	II	FBL030520	03/05/20	II
GWA-56	03/04/20	II	EQBL030520	03/05/20	II
GWC-16R	03/04/20	II	DUP-3	03/05/20	II

These samples were collected from Landfill Cells 3&4 on March 2, 2020 through March 6, 2020. Dup-1 is a field duplicate of GWA-52, Dup-2 is a field duplicate of GWA-55R and Dup-3 is a field duplicate of GWC-20R. Three field blanks and three equipment blanks were taken and submitted in this SDG. Equipment blanks were collected on different equipment used to sample the locations at Landfill Cells 3&4 and are listed below:

EQBL030220, collected on the nitrile gloves
EQBL030420, collected with the poly tubing
EQBL030520, collected on the grab plate

The highest result of any detected analyte between the three equipment blanks was used to qualify associated sample results if necessary.

The analytical results for the metals, anions, and TDS data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6010D/SW6020B/SW7470A)

The samples were submitted to Pace for CCR Appendix III and State D&O Permit metals by Method SW6010D, SW6020B and/or mercury by SW7470A. The CCR Appendix III metals are: boron (B) and calcium (Ca). The State D&O Permit metals are: antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni), selenium (Se), silver (Ag), thallium (Tl), vanadium (V), and zinc (Zn). Each of the Level II components were within QC limits with the exception of method and equipment blank contamination.

Holding Times

The sample analyses were performed within the 6 month and 28-day (for mercury) analysis holding times.

Method Blanks

The method blank(s) associated with the samples analyzed within this SDG contained arsenic, boron, and chromium at concentrations between the MDL and the RL. Results less than five times the blank are considered not detected as a possible laboratory artifact: **Reason Code: BL**.

Action: The positive arsenic, boron, and chromium results less than five times the method blank were qualified as not detected due to possible blank contamination and flagged "U".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The batch MS/MSD analyses for metals and mercury were performed on DUP-1 and/or GWA-51RZ. The MS recovery was above the upper QC limit for calcium. **Reason Code: M+**

Action: No qualification was required; the sample results were greater than 4x the spike amount and the corresponding MSD recovery and RPD were within QC limits.

Post Digestion Spike (PDS)

PDS analysis results were not available for review.

Field Duplicate Precision

Three field duplicate pairs were submitted in this SDG and the RPD limits were met.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Three field blanks were collected with these samples. One or more of the field blanks contained the following analytes: barium and zinc. Three equipment blanks were collected and submitted in this SDG. One or more of the equipment blanks contained the following analytes: barium, chromium, copper and zinc. Results less than five times the field and/or equipment blank are considered "not detected" as a possible field artifact: **Reason Code: BF, BE.**

Action: No qualification was applied to select chromium results based on equipment blanks due to method blank contamination; the blank results were flagged "U". The positive barium, copper and zinc results less than five times the equipment blank were qualified as not detected due to possible blank contamination and flagged "U*".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B and 7470A. Elevated RLs are present where dilutions were required to place the constituent within the calibration range; however, none of the samples in this SDG required dilution.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is retained by the data validator.

Total and Dissolved Metals Comparison

If total and dissolved metals samples were collected, comparison of the total and dissolved results can aid in the representativeness of the total metals value versus the metals that may be associated with suspended solids and metals actually dissolved within the water column. The dissolved metals results should be less than or equal to the total metals concentration for positive results greater than 5 times the RL. No dissolved samples were collected and reported in this SDG.

Anions (EPA 300.0)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300.0. Each of the Level II components were within the QC limits with the exception of MS/MSD recoveries and field blank contamination.

Holding Times

The sample analyses were performed within the 28-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed in this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The batch MS/MSD analyses for anions were performed on samples GWC-25R, GWA-36R, GWA-56, and FBL-030520. The MS recovery was below the lower QC limit for fluoride in GWA-36R and the MS/MSD recoveries were below the lower QC limit for sulfate in GWA-56 indicating a possible low bias. The MS recovery was above the upper QC limit for fluoride in FBL-030520 indicating a possible high bias. High bias only affects positive results. **Reason Code: M, M+, or M-**

Action: No qualification was required for GWA-36R fluoride results because the corresponding MSD recovery and RPD were in QC limits. No qualification was required for FBL-030520 fluoride results because the bias was high and the sample result was non-detect. The sulfate results for sample GWA-56 were flagged "J".

Field Duplicate Precision

Three field duplicate pairs were submitted in this SDG and the RPD limits were met.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Three field blanks were collected with these samples and one field blank contained sulfate. Three equipment blanks were collected and submitted in this SDG and did not contain anions. Results less than five times the field blank are considered "not detected" as a possible field artifact: **Reason Code: BF.**

Action: The positive sulfate results less than five times the field blank were qualified as not detected due to possible blank contamination and flagged "U".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300 and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however no anion results were reported between the MDL and RL.

TDS (SM 2540C)

The samples were submitted to Pace for TDS by Method SM 2540C. Each of the Level II components were within the QC limits with the exception of holding time exceedance and equipment blank contamination. No qualification was applied due to equipment blank contamination.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The analytical method does not require the analysis of a method blank.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Field Duplicate Precision

Three field duplicate pairs were submitted in this SDG and the RPD limits were met.

Sampling Accuracy (Equipment Rinse Blanks, Field Blanks)

The equipment blanks in this SDG did not contain TDS. One of the three field blanks associated with the samples of this SDG contained TDS; however, no qualification was applied.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM 2540C and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however no TDS results were reported between the MDL and RL.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and validation SOPs.

Completeness

A total of 23 wells and one spring location, along with the required QC samples, were sampled and analyzed during the March event in Landfill Cells 3&4 according to the FSP (Amec Foster Wheeler, 2017). The 23 wells and one spring location were reported in this SDG and were sampled and analyzed as scoped.

Therefore, both field and analytical completeness calculated for this SDG was 100%.

References

Amec Foster Wheeler, 2017. *Field Sampling Plan – Plant Bowen*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), Revision 1, Update 3, October 16, 2017.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: JPM 04/06/20

Checked By/Date: JAH 04/14/20

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629786
SAMPLING DATE: March 2-6, 2020
Plant Bowen Landfill Cells 3 & 4: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
EQBL-030220	Equipment Blank	EB	2629786	6020B	barium	0.0018	J	J	--	mg/L
EQBL-030220	Equipment Blank	EB	2629786	6020B	chromium	0.00049	J	J	--	mg/L
EQBL-030220	Equipment Blank	EB	2629786	6020B	copper	0.00019	J	J	--	mg/L
EQBL-030220	Equipment Blank	EB	2629786	6020B	zinc	0.0031	J	J	--	mg/L
EQBL-030420	Equipment Blank	EB	2629786	6020B	barium	0.0018	J	J	--	mg/L
EQBL-030420	Equipment Blank	EB	2629786	6020B	chromium	0.00046	J	J	--	mg/L
EQBL-030420	Equipment Blank	EB	2629786	6020B	zinc	0.0022	J	J	--	mg/L
EQBL-030520	Equipment Blank	EB	2629786	6020B	zinc	0.0022	J	J	--	mg/L
FBL-030220	Field Blank	FB	2629786	6020B	barium	0.0018	J	J	--	mg/L
FBL-030220	Field Blank	FB	2629786	6020B	zinc	0.0027	J	J	--	mg/L
FBL-030420	Field Blank	FB	2629786	6020B	barium	0.0018	J	J	--	mg/L
FBL-030420	Field Blank	FB	2629786	6020B	zinc	0.0023	J	J	--	mg/L
FBL-030520	Field Blank	FB	2629786	E300.0	Sulfate	0.55	J	J	--	mg/L
GWA-36	GWA-36	N	2629786	6020B	beryllium	0.00024	J	J	--	mg/L
GWA-36	GWA-36	N	2629786	6020B	boron	0.01	J	J	--	mg/L
GWA-36	GWA-36	N	2629786	6020B	cadmium	0.0012	J	J	--	mg/L
GWA-36	GWA-36	N	2629786	6020B	lead	0.000052	J	J	--	mg/L
GWA-36	GWA-36	N	2629786	6020B	nickel	0.00071	J	J	--	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	beryllium	0.00015	J	J	--	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	boron	0.014	J	J	--	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	cadmium	0.00018	J	J	--	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	chromium	0.00047	J	U*	BE	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	copper	0.00043	J	U*	BE	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	lead	0.00031	J	J	--	mg/L
GWA-36R	GWA-36R	N	2629786	6020B	nickel	0.00051	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	E300.0	chloride	0.78	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6010D	calcium	0.77	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	antimony	0.0018	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	arsenic	0.00053	J, B	U*	BL	mg/L
GWA-37	GWA-37	N	2629786	6020B	barium	0.005	J	U*	BE, BF	mg/L
GWA-37	GWA-37	N	2629786	6020B	boron	0.0052	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	copper	0.0068	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	nickel	0.0079	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	vanadium	0.00074	J	J	--	mg/L
GWA-37	GWA-37	N	2629786	6020B	zinc	0.0063	J	U*	BE, BF	mg/L
GWA-38	GWA-38	N	2629786	300.0	sulfate	0.5	J	U*	BF	mg/L
GWA-38	GWA-38	N	2629786	6020B	arsenic	0.00059	J, B	U*	BL	mg/L
GWA-38	GWA-38	N	2629786	6020B	chromium	0.0014	J	U*	BE	mg/L
GWA-38	GWA-38	N	2629786	6020B	cobalt	0.0011	J	J	--	mg/L
GWA-38	GWA-38	N	2629786	6020B	copper	0.00019	J	U*	BE	mg/L
GWA-38	GWA-38	N	2629786	6020B	nickel	0.001	J	J	--	mg/L
GWA-38	GWA-38	N	2629786	6020B	vanadium	0.0014	J	J	--	mg/L

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Plant Bowen Landfill Cells 3 & 4: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-38	GWA-38	N	2629786	6020B	zinc	0.0032	J	U*	BE, BF	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	arsenic	0.00073	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	boron	0.0096	J, B	U*	BL	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	copper	0.00041	J	U*	BE	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	lead	0.000051	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	selenium	0.0053	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	thallium	0.00012	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	vanadium	0.00091	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	2629786	6020B	zinc	0.0035	J	U*	BE, BF	mg/L
GWA-52	GWA-52	N	2629786	6020B	boron	0.007	J	J	--	mg/L
GWA-52	GWA-52	N	2629786	6020B	chromium	0.0011	J	U*	BE	mg/L
GWA-52	GWA-52	N	2629786	6020B	copper	0.00024	J	U*	BE	mg/L
GWA-52	GWA-52	N	2629786	6020B	zinc	0.0024	J	U*	BE, BF	mg/L
DUP-1	GWA-52	FD	2629786	6020B	boron	0.0079	J	J	--	mg/L
DUP-1	GWA-52	FD	2629786	6020B	chromium	0.0011	J	U*	BE	mg/L
DUP-1	GWA-52	FD	2629786	6020B	copper	0.00036	J	U*	BE	mg/L
DUP-1	GWA-52	FD	2629786	6020B	thallium	0.000092	J	J	--	mg/L
DUP-1	GWA-52	FD	2629786	6020B	zinc	0.0017	J	U*	BE, BF	mg/L
GWA-53	GWA-53	N	2629786	E300.0	sulfate	1.5		U*	BF	mg/L
GWA-53	GWA-53	N	2629786	6020B	antimony	0.0019	J	J	--	mg/L
GWA-53	GWA-53	N	2629786	6020B	arsenic	0.00044	J	J	--	mg/L
GWA-53	GWA-53	N	2629786	6020B	boron	0.0064	J	J	--	mg/L
GWA-53	GWA-53	N	2629786	6020B	chromium	0.00076	J	U*	BE	mg/L
GWA-53	GWA-53	N	2629786	6020B	copper	0.00053	J	U*	BE	mg/L
GWA-53	GWA-53	N	2629786	6020B	lead	0.00016	J	J	--	mg/L
GWA-53	GWA-53	N	2629786	6020B	zinc	0.004	J	U*	BE, BF	mg/L
GWA-53R	GWA-53R	N	2629786	E300.0	sulfate	1.7		U*	BF	mg/L
GWA-53R	GWA-53R	N	2629786	6020B	antimony	0.00053	J	J	--	mg/L
GWA-53R	GWA-53R	N	2629786	6020B	arsenic	0.00043	J	J	--	mg/L
GWA-53R	GWA-53R	N	2629786	6020B	chromium	0.0012	J	U*	BE	mg/L
GWA-53R	GWA-53R	N	2629786	6020B	lead	0.000066	J	J	--	mg/L
GWA-53R	GWA-53R	N	2629786	6020B	zinc	0.0027	J	U*	BE, BF	mg/L
GWA-54	GWA-54	N	2629786	E300.0	chloride	0.77	J	J	--	mg/L
GWA-54	GWA-54	N	2629786	E300.0	sulfate	1.7		U*	BF	mg/L
GWA-54	GWA-54	N	2629786	6020B	antimony	0.0011	J	J	--	mg/L
GWA-54	GWA-54	N	2629786	6020B	boron	0.0084	J, B	U*	BL	mg/L
GWA-54	GWA-54	N	2629786	6020B	chromium	0.0017	J, B	U*	BL, BE	mg/L
GWA-54	GWA-54	N	2629786	6020B	copper	0.00025	J	U*	BE	mg/L
GWA-54	GWA-54	N	2629786	6020B	lead	0.000048	J	J	--	mg/L
GWA-54	GWA-54	N	2629786	6020B	thallium	0.000079	J	J	--	mg/L
GWA-54	GWA-54	N	2629786	6020B	zinc	0.0024	J	U*	BE, BF	mg/L

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Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-55	GWA-55	N	2629786	6020B	boron	0.01	J, B	U*	BL	mg/L
GWA-55	GWA-55	N	2629786	6020B	chromium	0.00085	J, B	U*	BL, BE	mg/L
GWA-55	GWA-55	N	2629786	6020B	cobalt	0.0048	J	J	--	mg/L
GWA-55	GWA-55	N	2629786	6020B	lead	0.000048	J	J	--	mg/L
GWA-55	GWA-55	N	2629786	6020B	nickel	0.00061	J	J	--	mg/L
GWA-55	GWA-55	N	2629786	6020B	selenium	0.0025	J	J	--	mg/L
GWA-55	GWA-55	N	2629786	6020B	thallium	0.000065	J	J	--	mg/L
GWA-55	GWA-55	N	2629786	6020B	zinc	0.005	J	U*	BE, BF	mg/L
GWA-55R	GWA-55R	N	2629786	6020B	boron	0.0063	J	J	--	mg/L
GWA-55R	GWA-55R	N	2629786	6020B	chromium	0.090079	J	U*	BE	mg/L
GWA-55R	GWA-55R	N	2629786	6020B	selenium	0.0018	J	J	--	mg/L
GWA-55R	GWA-55R	N	2629786	6020B	zinc	0.0028	J	U*	BE, BF	mg/L
DUP-2	GWA-55R	FD	2629786	6020B	boron	0.0052	J	J	--	mg/L
DUP-2	GWA-55R	FD	2629786	6020B	chromium	0.00072	J	U*	BE	mg/L
DUP-2	GWA-55R	FD	2629786	6020B	zinc	0.0026	J	U*	BE, BF	mg/L
GWA-56	GWA-56	N	2629786	E300.0	fluoride	0.086	J	J	--	mg/L
GWA-56	GWA-56	N	2629786	E300.0	Sulfate	69.4		J	M-	mg/L
GWA-56	GWA-56	N	2629786	6020B	arsenic	0.0004	J	J	--	mg/L
GWA-56	GWA-56	N	2629786	6020B	boron	0.022	J	J	--	mg/L
GWA-56	GWA-56	N	2629786	6020B	copper	0.0003	J	U*	BE	mg/L
GWA-56	GWA-56	N	2629786	6020B	lead	0.00005	J	J	--	mg/L
GWA-56	GWA-56	N	2629786	6020B	zinc	0.0029	J	U*	BE, BF	mg/L
GWC-16R	GWC-16R	N	2629786	E300.0	chloride	0.79	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	E300.0	fluoride	0.29	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	arsenic	0.00088	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	boron	0.027	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	chromium	0.0014	J	U*	BE	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	copper	0.0024	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	nickel	0.0032	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	thallium	0.00014	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	vanadium	0.0023	J	J	--	mg/L
GWC-16R	GWC-16R	N	2629786	6020B	zinc	0.015		U*	BE, BF	mg/L
GWC-17R	GWC-17R	N	2629786	6020B	chromium	0.00063	J	U*	BE	mg/L
GWC-17R	GWC-17R	N	2629786	6020B	copper	0.00023	J	U*	BE	mg/L
GWC-17R	GWC-17R	N	2629786	6020B	zinc	0.0035	J	U*	BE, BF	mg/L
GWC-18	GWC-18	N	2629786	6020B	antimony	0.00049	J	J	--	mg/L
GWC-18	GWC-18	N	2629786	6020B	chromium	0.0019	J	U*	BE	mg/L
GWC-18	GWC-18	N	2629786	6020B	copper	0.00023	J	U*	BE	mg/L
GWC-18	GWC-18	N	2629786	6020B	lead	0.00013	J	J	--	mg/L
GWC-18	GWC-18	N	2629786	6020B	nickel	0.0005	J	J	--	mg/L
GWC-18	GWC-18	N	2629786	6020B	thallium	0.000076	J	J	--	mg/L
GWC-18	GWC-18	N	2629786	6020B	zinc	0.0045	J	U*	BE, BF	mg/L

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SAMPLING DATE: March 2-6, 2020
Plant Bowen Landfill Cells 3 & 4: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-18R	GWC-18R	N	2629786	E300.0	sulfate	1.9		U*	BF	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	antimony	0.00068	J	J	--	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	arsenic	0.00042	J	J	--	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	beryllium	0.00013	J	J	--	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	chromium	0.0007	J	U*	BE	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	lead	0.00032	J	J	--	mg/L
GWC-18R	GWC-18R	N	2629786	6020B	zinc	0.0024	J	U*	BE, BF	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	arsenic	0.00072	J	J	--	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	beryllium	0.00013	J	J	--	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	chromium	0.001	J	U*	BE	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	copper	0.00036	J	U*	BE	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	lead	0.0003	J	J	--	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	nickel	0.00071	J	J	--	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	vanadium	0.00096	J	J	--	mg/L
GWC-19R	GWC-19R	N	2629786	6020B	zinc	0.0072	J	U*	BE, BF	mg/L
GWC-20R	GWC-20R	N	2629786	E300.0	Sulfate	1.1		U*	BF	mg/L
GWC-20R	GWC-20R	N	2629786	6020B	chromium	0.00075	J	U*	BE	mg/L
GWC-20R	GWC-20R	N	2629786	6020B	zinc	0.0023	J	U*	BE, BF	mg/L
DUP-3	GWC-20R	FD	2629786	E300.0	Sulfate	1.2		U*	BF	mg/L
DUP-3	GWC-20R	FD	2629786	6020B	arsenic	0.004	J	J	--	mg/L
DUP-3	GWC-20R	FD	2629786	6020B	chromium	0.0016	J	U*	BE	mg/L
DUP-3	GWC-20R	FD	2629786	6020B	zinc	0.002	J	U*	BE, BF	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	antimony	0.0019	J	J	--	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	arsenic	0.0015	J	J	--	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	boron	0.0096	J, B	U*	BL	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	chromium	0.00058	J, B	U*	BL, BE	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	copper	0.00049	J	U*	BE	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	nickel	0.00099	J	J	--	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	thallium	0.000071	J	J	--	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	vanadium	0.00085	J	J	--	mg/L
GWC-21R	GWC-21R	N	2629786	6020B	zinc	0.0044	J	U*	BE, BF	mg/L
GWC-22R	GWC-22R	N	2629786	E300.0	Sulfate	1.7		U*	BF	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	arsenic	0.0014	J	J	--	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	boron	0.0066	J, B	U*	BL	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	chromium	0.00057	J, B	U*	BL, BE	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	cobalt	0.00078	J	J	--	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	copper	0.00022	J	U*	BE	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	lead	0.000059	J	J	--	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	nickel	0.001	J	J	--	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	thallium	0.000072	J	J	--	mg/L
GWC-22R	GWC-22R	N	2629786	6020B	zinc	0.0029	J	U*	BE, BF	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629786
SAMPLING DATE: March 2-6, 2020
Plant Bowen Landfill Cells 3 & 4: Event 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-23R	GWC-23R	N	2629786	6020B	chromium	0.00086	J	U*	BE	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	copper	0.0003	J	U*	BE	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	lead	0.000052	J	J	--	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	nickel	0.00075	J	J	--	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	thallium	0.00018	J	J	--	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	vanadium	0.00071	J	J	--	mg/L
GWC-23R	GWC-23R	N	2629786	6020B	zinc	0.0084	J	U*	BE, BF	mg/L
GWC-24R	GWC-24R	N	2629786	E300.0	Sulfate	2		U*	BF	mg/L
GWC-24R	GWC-24R	N	2629786	6020B	chromium	0.00052	J, B	U*	BL, BE	mg/L
GWC-24R	GWC-24R	N	2629786	6020B	copper	0.00097	J	U*	BE	mg/L
GWC-24R	GWC-24R	N	2629786	6020B	lead	0.000057	J	J	--	mg/L
GWC-24R	GWC-24R	N	2629786	6020B	vanadium	0.0011	J	J	--	mg/L
GWC-24R	GWC-24R	N	2629786	6020B	zinc	0.0013	J	U*	BE, BF	mg/L
GWC-25R	GWC-25R	N	2629786	E300.0	Sulfate	1.6		U*	BF	mg/L
GWC-25R	GWC-25R	N	2629786	6020B	chromium	0.00078	J, B	U*	BL, BE	mg/L
GWC-25R	GWC-25R	N	2629786	6020B	copper	0.00027	J	U*	BE	mg/L
GWC-25R	GWC-25R	N	2629786	6020B	lead	0.000059	J	J	--	mg/L
GWC-25R	GWC-25R	N	2629786	6020B	zinc	0.0027	J	U*	BE, BF	mg/L
SPRING	SPRING	N	2629786	6020B	arsenic	0.00041	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	boron	0.0082	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	chromium	0.0033	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	cobalt	0.00051	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	copper	0.0015	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	lead	0.00071	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	nickel	0.0014	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	vanadium	0.0032	J	J	--	mg/L
SPRING	SPRING	N	2629786	6020B	zinc	0.0064	J	U*	BE, BF	mg/L

Laboratory Qualifiers:

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

Reason Codes:

BE = Equipment blank contamination. The result should be considered "not-detected".

BF = Field blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

M- = MS and MSD recoveries outside acceptance limits. The result may be biased low.

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: JPM 04/08/20

Checked by/Date: JAH 04/14/20

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003 ****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 2629786

Reviewer/Date: J. McIntyre 04/03/20 **Senior Reviewer/Date:** J. Hartness 04/14/20

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
<input checked="" type="checkbox"/>			<p>Case Narrative and COC Completeness Review OK</p>
<input checked="" type="checkbox"/>			<p>Sample Preservation and cooler temperature met (HNO₃ to pH<2) OK, 2.0°C</p>
<input checked="" type="checkbox"/>			<p>Holding times met (180 days; Hg = 28 days) Coll: 03/02/20-03/06/20 Prep: metals: 03/10/20, 03/11/20, 03/13/20 Anal: metals: 03/11/20, 03/16/20 Prep: Ca only: 03/10/20, 03/11/20 Anal: Ca only: 03/11/20, 03/13/20, 03/18/20 Prep Hg: 03/10/20-03/12/20 Anal Hg: 03/10/20, 03/12/20, 03/13/20</p>
	<input checked="" type="checkbox"/>		<p>QC Blanks Review <u>Method Blanks:</u> <u>Mercury (Hg):</u> p. 51 MB 203479 (3/10/20) Hg = ND p. 52 MB 203797 (3/12/20) Hg = ND p. 53 MB 203801 (3/12/20) Hg = ND p. 54 MB 204276 (3/13/20) Hg = ND <u>Calcium (Ca):</u> p. 55 MB 203829 (03/11/20) Ca = ND p. 56 MB 204090 (03/18/20) Ca = ND p. 57 MB 204097 (03/13/20) Ca = ND <u>Metals:</u> p. 58 MB 203914 = B – 0.0084J x 5 = 0.042, Cr – 0.00054J x 5 = 0.0027 Assoc B and Cr results flagged U* p. 60 MB 204143 = As – 0.00036J x 5 = 0.0018 Assoc As results flagged U* p. 62 MB 204815 = ND</p>

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

QC Blanks Review (cont.)

Field Blanks: (highest results bolded in red, orange is tied)

FBL-030220 | Ba – 0.0018J x 5 = **0.009** mg/L, Zn – 0.0027J x **0.014** mg/L

Assoc. Ba and Zn results <5x EB blank result flagged *U. Co-flag with EB

FBL-030420 | Ba – 0.0018J x 5 = **0.009** mg/L, Zn – 0.0023J x **0.012** mg/L

Assoc. Zn results <5x EB blank result flagged *U. Co-flag with EB

Ba results >5x blank

FBL-030520 | All ND

No flags applied based on these FBs.

Equipment Blanks: (highest results bolded in red, orange is tied)

EQBL-030220 | Ba – 0.0018J x 5 = **0.009** mg/L, Cr – 0.00049J x 5 = **0.0025** mg/L,

Cu – 0.00019J x 5 = **0.001** mg/L, Zn – 0.0031J x **0.016** mg/L

Ba, Cr, Cu and Zn results <5x EB blank result flagged *U. Select Cr results flagged "U*" due to MB contamination - No flags applied

EQBL-030420 | Ba – 0.0018J x 5 = **0.009** mg/L, Cr – 0.00046J x 5 = 0.0023 mg/L,

Zn – 0.0022J x 0.011 mg/L

No flags applied based on this EB.

EQBL-030520 | Zn – 0.0022J x 0.011 mg/L

No flags applied based on this EB.

Laboratory Control Sample (LCS) recovery within limits

(Metals 70-130%, Hg = 80-120%)

p. 51 LCS 203480 Hg = 99%

p. 52 LCS 203798 Hg = 96%

p. 53 LCS 203802 Hg = 104%

p. 54 LCS 204277 Hg = 105%

p. 55 LCS 203830 Ca = 105%

p. 56 LCS 204091 Ca = 99%

p. 57 LCS 204098 Ca = 103%

p. 58 LCS 203915 metals = All OK

p. 60 LCS 204144 metals = All OK

p. 62 LCS 204816 metals = All OK

Lab Duplicate - Field Duplicate precision goals met (20%)

	RL	GWA-52	Dup-1	*Diff/RPD	GWA-55R	Dup-2	*Diff/RPD	GWC-20R	Dup-3	*Diff/RPD
Ba	0.01	0.023	0.021	9%	0.029	0.029	0	0.028	0.029	3.5
B	0.04	0.007J	0.0079J	0.0009	0.0063J	0.0052J	0.0011	-	-	-
Ca	1.0	33.7	33.4	0.9%	39.9	41	2.7	38.9	39.2	0.8
Cr	0.01	0.0011J	0.0011J	0	0.00079J	0.00072J	0.00007	0.00075J	0.0016J	0.00085
Se	0.01	-	-	-	0.0018J	ND	0.0082	-	-	-
Cu	0.025	0.00024J	0.00036J	0.00012	-	-	-	-	-	-
Tl	0.001	ND	0.000092J	0.000908	-	-	-	-	-	-
Zn	0.01	0.0024J	0.0017J	0.0007	0.0028J	0.0026J	0.0002	0.0023J	0.002J	0.0001

*for results <RL, diff must be <RL

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)

Hg:

p. 51 GWA-51RZ Hg: 98, 101% RPD 4% OK

p. 52 non-project sample (2629703020) – OK

p. 53 non-project sample (2629828005) – OK

p. 54 non-project sample (2629701014) – OK

Ca:

p. 55 non-project sample (2629765005) – Ca = 137, 108% RPD = 1

No flags on non-project samples; result > 4x spike and analyzed at a dilution.

p. 56 non-project sample (2629733017) – OK

p. 57 DUP-1 Ca = 192, 97% RPD = 3

No flags; result > 4x spike and MSD and RPD OK.

Metals:

p. 59 GWA-51RZ metals: All OK

p. 61 non-project sample (2629733015) – OK

p. 63 DUP-1 metals: All OK

Total metals vs dissolved metals within limits (RPD < 20% or diff. < RL)

No dissolved metals in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

LEVEL II DATA QUALITY VALIDATION RECORD**Project:** Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event**Project No:** 6122160287.2003.******Method:** Anions (chloride, fluoride, sulfate) by EPA 300.0**Laboratory and Lot:** Pace SDGs: 2629786**Reviewer/Date:** J. McIntyre 04/06/20 **Senior Reviewer/Date:** J. Hartness 04/14/20YES NO NA COMMENTS
 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 2.0°C

 Holding times met (Cl, SO₄, F – 28 days)
Coll: 03/02/20-03/06/20
Anal: 03/10/20, 03/12/20, 03/13/20

 QC Blanks Review
Method Blanks:
p. 69 MB 2827590 anions = ND p. 70 MB 2827596 anions = ND
p. 71 MB 2830385 anions = ND p. 72 MB 2830391 anions = ND
p. 73 MB 2830409 anions = ND p. 74 MB 2831543 anions = ND

Field Blanks:
FBL-030520: sulfate = 0.55J x 5 = **2.75** mg/L
Assoc. sulfate results <5x FB blank result flagged *U.
Equipment Blanks:
All ND

 Laboratory Control Sample (LCS) recovery within limits (90-110%)
p. 69 LCS 2827591 – All OK p. 70 LCS 2827597 – All OK
p. 71 LCS 2830386 – All OK p. 72 LCS 2830392 – All OK
p. 73 LCS 2830410 – All OK p. 74 LCS 2831545 – All OK

 Lab Duplicate - Field Duplicate precision goals met (20%)

	GWA-52	Dup-1	RPD	GWA-55R	Dup-2	RPD	GWC-20R	Dup-3	RPD
Cl ⁻	4.9	5.0	2%	2.6	2.6	0	1.5	1.6	6.5%
SO ₄	16.3	16.7	2.4%	23.4	23.6	0.9%	1.1	1.2	8.7%

Anions (chloride, fluoride, sulfate) by EPA 300.0 (cont.)

YES	NO	NA	COMMENTS
	<input checked="" type="checkbox"/>		<p>Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20) p. 69 non-project samples (2629703013 & 2629703023) p. 70 GWC-25R, recovery & RPDs OK; non-project sample (2629765002) p. 71 non-project samples (92468702015 & 2629733011) p. 72 GWA-36R, F⁻ = 88, 91% RPD = 3, <i>No flag; MSD & RPD ok.</i> GWA-56 SO₄=81, 82% RPD = 1 <i>result flagged J.</i> p. 73 FBL030520, F⁻ = 116, 106% RPD = 9, <i>No flag; sample = ND and MSD & RPD ok</i> Non-project (92468666022) p. 74 non-project samples (92466735001)</p>
<input checked="" type="checkbox"/>			<p>EDD Data Verification vs. Hardcopy (10% samples for each SDG)</p>

TDS by SM 2540C (cont.)

YES NO NA

COMMENTS

Matrix Spike recoveries and RPDs within limits (if applicable)
None for TDS

EDD Data Verification vs. Hardcopy (10% samples for each SDG)



Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 14 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2003.****

Site: Landfill Cells 9 & 10 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG No: 2629875

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 14 Groundwater Detection Monitoring Sampling Event and the Semiannual State Design and Operation (D&O) Permit sampling event conducted at Landfill Cells 9 & 10 at Plant Bowen, located in Cartersville, Georgia in March 2020. The samples were collected and analyzed per the protocols presented in the Plant Bowen *Field Sampling Plan (FSP)*, Revision 1, Update 3 (Amec Foster Wheeler, 2017). The following sections provide summary discussions of the required data qualifications for the methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. <i>SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.</i>
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.



Qualifier Unusable Data

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed.
- UR The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6010D, SW6020B, SW7470A, EPA 300 and SM 2540C.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for CCR Appendix III metals and State D&O Permit metals by Method 6010D and 6020B, mercury by Method SW7470, anions (chloride, fluoride, and sulfate) by Method 300 and total dissolved solids (TDS) by Method SM 2540C.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
GWA-39RZ	03/09/20	II	GWC-47	03/09/20	II
GWA-39Z	03/09/20	II	GWC-47R	03/09/20	II
GWA-40	03/09/20	II	GWC-48	03/09/20	II
GWA-41	03/06/20	II	GWC-49R	03/11/20	II
GWA-41R	03/09/20	II	GWC-49Z	03/09/20	II
GWA-42	03/06/20	II	<u>QA/QC Samples:</u>		
GWA-43	03/09/20	II	EQBL-030620	03/06/20	II
GWA-43R	03/09/20	II	FBL-030620	03/06/20	II
GWC-44	03/10/20	II	EQBL-031020	03/10/20	II
GWC-45	03/10/20	II	FBL-031020	03/10/20	II
GWC-45R	03/10/20	II	DUP-1	03/06/20	II
GWC-46R	03/10/20	II	DUP-2	03/10/20	II

The samples reported in this SDG were collected from Landfill Cells 9&10 between March 6 and March 11, 2020. Sample DUP-1 is the field duplicate sample of GWA-42 and sample DUP-2 is the field duplicate sample

of GWC-45R. Equipment blanks were collected on different equipment used to sample the locations at Landfill Cells 9&10 and are listed below:

- EQBL030620, collected on the poly tubing
- EQBL031020, collected on the nitrile gloves

The highest result of any detected analyte between the two equipment blanks was used to qualify associated sample results if necessary.

The analytical results for the metals, anions, and TDS data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6010D/SW6020B/SW7470A)

The samples were submitted to Pace for CCR Appendix III and State D&O Permit metals by Method SW6010D, SW6020B, and/or mercury by SW7470A. The CCR Appendix III metals are: boron (B) and calcium (Ca). The State D&O Permit metals are: antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni), selenium (Se), silver (Ag), thallium (Tl), vanadium (V), and zinc (Zn). Each of the Level II components were within QC limits with the exception of method blank contamination and equipment blank contamination.

Holding Times

The sample analyses were performed within the 6 month and 28-day (for mercury) analysis holding times.

Method Blanks

The method blanks associated with some samples analyzed within this SDG contained metals at a concentration between the MDL and the RL (Antimony: 0.00031J mg/L, Chromium: 0.00045J mg/L, Antimony: 00029J mg/L, chromium: 0013J mg/L, zinc: 0018J mg/L). Results less than five times the blank are considered not detected as a possible laboratory artifact: **Reason Code: BL**.

Action: The positive metals results less than five times the method blank were qualified as not detected due to possible blank contamination and flagged "U".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were performed for metals on project samples GWA-39RZ, GWA-40, GWA-41, GWA-42, and GWA-43. Calcium recovered outside the QC limits in sample GWA-41.

Action: No qualification was required for the calcium results in sample GWA-41 was required because calcium was present in the parent sample at a concentration greater than 4 times the spike amount.

Post Digestion Spike (PDS)

PDS analysis results were not available for review.

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG (GWA-42/DUP-1-030620 and GWA-45R/Dup-2-031020) and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. The field blank samples contained antimony and/or zinc. One of the equipment blanks (EQBL-030620) contained antimony, chromium, copper, and zinc between the method detection limit (MDL) and the reporting limit (RL).

Results less than five times the blank are considered not detected as a possible field artifact: **Reason Code: BF or BE.**

Action: The positive antimony, chromium, copper and/or zinc results less than five times the equipment blank and/or field blank were qualified as not detected due to possible blank contamination and flagged "U".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6010D, SW6020B and 7470A. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range; however, there were no dilutions required for metals in the samples submitted with this SDG.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier was retained by the data validator.

Total and Dissolved Metals Comparison

If total and dissolved metals samples were collected, comparison of the total and dissolved results can aid in the representativeness of the total metals value versus the metals that may be associated with suspended solids and metals actually dissolved within the water column. The dissolved metals results should be less than or equal to the total metals concentration for positive results greater than 5 times the RL. No total and dissolved samples were collected and reported in this SDG.

Anions (EPA 300)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300. Each of the Level II components were within QC limit with the exception of duplicate precision.

Holding Times

The sample analyses were performed within the 28-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain anions indicating the analytical system was contaminant free during analysis.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed for anions on project samples GWC-47 and EQBL031020. Percent recoveries for EQBL031020 were above the upper QC limits indicating a possible high bias. High bias applies to positive results only.

Action: No qualification was applied because the bias was high and the sample was non-detect.

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG (GWA-42/DUP-1-030620, GWC-45R/Dup-2-031020) and the RPDs were within QC limits with the following exceptions: The sulfate RPD was outside QC limits for pair GWA-42/DUP-1-030620/GWA.

Action: The sulfate results reported in samples GWA-42 and DUP-1-030620 were qualified as estimated and flagged "J". Reason Code: FD.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field and equipment blank(s) associated with the samples of this SDG (FBL030620, EQBL030620, EQBL031020, and EQBL031020) did not contain anions.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. The laboratory RL was elevated where dilutions were required to place the constituent within the calibration range, however no samples in this SDG required a dilution. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier was retained by the data validator.

TDS (SM 2540C)

The samples were submitted to Pace for TDS by Method SM 2540C. Each of the Level II components were within QC limits with the exception of equipment blank contamination; however, no qualification was applied.

Holding Times

The sample analyses were performed within the 7-day analysis holding times.

Method Blanks

Laboratory method blanks are not required for the analysis of TDS.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG (GWA-42/DUP-1-030620, GWC-45R/Dup-2-031020) and the RPDs were within QC limits.

Laboratory Duplicate Precision

The laboratory duplicates analyzed were not for project samples in this SDG.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field and equipment blanks associated with the samples in this SDG reported TDS; however, no qualification was applied.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM 2540C and no samples required dilutions; therefore, RLs were met for this project. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory, however no TDS results were reported between the MDL and RL.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and validation SOPs. No professional judgment was used to modify flags for results reported in samples presented in this SDG.

Completeness

A total of 17 wells, along with the required QC samples, were sampled and analyzed during the March event in Landfill Cells 9&10 according to the FSP (Amec Foster Wheeler, 2017). Each of the 17 well locations were reported in this SDG and were sampled and analyzed as scoped.

Therefore, both field and analytical completeness calculated for this SDG was 100%.



References

Amec Foster Wheeler, 2017. *Field Sampling Plan – Plant Bowen*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), Revision 1, Update 3, October 16, 2017.

USEPA, 2014. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: EIWP 4/7/20

Checked By/Date: JAH 04/07/20

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629875
SAMPLING DATE: March 6-March 11, 2020
Plant Bowen Landfill Cells 9 & 10: Event # 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
EQBL-030620	Equipment Blank	EB	2629875	SW6020B	Antimony	0.00032	J, B	U*	BL	mg/L
EQBL-030620	Equipment Blank	EB	2629875	SW6020B	Chromium	0.0035	J	J	--	mg/L
EQBL-030620	Equipment Blank	EB	2629875	SW6020B	Copper	0.00021	J	J	--	mg/L
EQBL-030620	Equipment Blank	EB	2629875	SW6020B	Zinc	0.0037	J	J	--	mg/L
FBL-030620	Field Blank	FB	2629875	SW6020B	Antimony	0.00082	J, B	U*	BL	mg/L
FBL-031020	Field Blank	FB	2629875	SW6020B	Zinc	0.0017	J	U*	BL	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Antimony	0.0013	J, B	U*	BL	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Arsenic	0.00083	J	J	--	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Boron	0.0065	J	J	--	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Chromium	0.0016	J	U*	BE	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Copper	0.011	J	J	--	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Lead	0.00027	J	J	--	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Nickel	0.00083	J	J	--	mg/L
GWA-39RZ-030920	GWA-39RZ	N	2629875	SW6020B	Zinc	0.009	J	U*	BE	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	E300.0	Sulfate	0.84	J	J	--	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Antimony	0.0011	J, B	U*	BL	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Barium	0.0072	J	J	--	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Cobalt	0.00075	J	J	--	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Copper	0.0007	J	U*	BE	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Lead	0.000055	J	J	--	mg/L
GWA-39Z-030920	GWA-39Z	N	2629875	SW6020B	Zinc	0.0035	J	U*	BE	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Barium	0.0088	J	J	--	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Boron	0.0074	J	J	--	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Chromium	0.0009	J, B	U*	BL, BE	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Lead	0.000095	J	J	--	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Thallium	0.000078	J	J	--	mg/L
GWA-40-030920	GWA-40	N	2629875	SW6020B	Zinc	0.002	J	U*	BE	mg/L
GWA-41-030620	GWA-41	N	2629875	SW6020B	Boron	0.013	J	J	--	mg/L
GWA-41-030620	GWA-41	N	2629875	SW6020B	Chromium	0.015		U*	BE	mg/L
GWA-41-030620	GWA-41	N	2629875	SW6020B	Copper	0.00093	J	U*	BE	mg/L
GWA-41-030620	GWA-41	N	2629875	SW6020B	Lead	0.000091	J	J	--	mg/L
GWA-41-030620	GWA-41	N	2629875	SW6020B	Nickel	0.0089	J	J	--	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629875
SAMPLING DATE: March 6-March 11, 2020
Plant Bowen Landfill Cells 9 & 10: Event # 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-41-030620	GWA-41	N	2629875	SW6020B	Zinc	0.0027	J	U*	BE	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Antimony	0.0037		U*	BE	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Boron	0.021	J	J	--	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Chromium	0.0004	J, B	U*	BL, BE	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Copper	0.0014	J	J	--	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Lead	0.000049	J	J	--	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Nickel	0.00036	J	J	--	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Thallium	0.000061	J	J	--	mg/L
GWA-41R-030920	GWA-41R	N	2629875	SW6020B	Zinc	0.0024	J	U*	BE	mg/L
GWA-42-030620	GWA-42	N	2629875	E300.0	Sulfate	1.7		J	FD	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Barium	0.0066	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Beryllium	0.00017	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Boron	0.0068	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Cadmium	0.00014	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Chromium	0.00045	J	U*	BE	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Cobalt	0.00039	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Copper	0.00019	J	U*	BE	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Lead	0.00011	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Nickel	0.0015	J	J	--	mg/L
GWA-42-030620	GWA-42	N	2629875	SW6020B	Thallium	0.000086	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	E300.0	Sulfate	2.4		J	FD	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Barium	0.0068	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Beryllium	0.00018	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Boron	0.0053	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Cadmium	0.00013	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Chromium	0.00089	J	U*	BE	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Cobalt	0.00034	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Copper	0.0002	J	U*	BE	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Lead	0.000098	J	J	--	mg/L
DUP-1-030620	GWA-42	FD	2629875	SW6020B	Nickel	0.0013	J	J	--	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Antimony	0.00062	J	U*	BE	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Chromium	0.0033	J, B	U*	BL, BE	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629875
SAMPLING DATE: March 6-March 11, 2020
Plant Bowen Landfill Cells 9 & 10: Event # 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-43-030920	GWA-43	N	2629875	SW6020B	Cobalt	0.00039	J	J	--	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Copper	0.00035	J	U*	BE	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Lead	0.000091	J	J	--	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Nickel	0.00082	J	J	--	mg/L
GWA-43-030920	GWA-43	N	2629875	SW6020B	Zinc	0.002	J	U*	BE	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Antimony	0.00037	J	U*	BE	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Barium	0.0069	J	J	--	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Boron	0.017	J	J	--	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Chromium	0.0014	J, B	U*	BL, BE	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Copper	0.00035	J	U*	BE	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Lead	0.000096	J	J	--	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Vanadium	0.00074	J	J	--	mg/L
GWA-43R-030920	GWA-43R	N	2629875	SW6020B	Zinc	0.0022	J	U*	BE	mg/L
GWC-44-031020	GWC-44	N	2629875	E300.0	Fluoride	0.13	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Arsenic	0.0013	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Beryllium	0.000074	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Boron	0.019	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Chromium	0.00074	J, B	U*	BL, BE	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Cobalt	0.0021	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Copper	0.00067	J	U*	BE	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Lead	0.00066	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Nickel	0.00086	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Selenium	0.0063	J	J	--	mg/L
GWC-44-031020	GWC-44	N	2629875	SW6020B	Zinc	0.0049	J	U*	BE	mg/L
GWC-45-031020	GWC-45	N	2629875	E300.0	Chloride	0.8	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	E300.0	Sulfate	0.61	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6010D	Calcium	0.89	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Antimony	0.00087	J	U*	BE	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Barium	0.0061	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Chromium	0.0007	J, B	U*	BL, BE	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Cobalt	0.0012	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Copper	0.00031	J	U*	BE	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629875
SAMPLING DATE: March 6-March 11, 2020
Plant Bowen Landfill Cells 9 & 10: Event # 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-45-031020	GWC-45	N	2629875	SW6020B	Lead	0.00014	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Nickel	0.0012	J	J	--	mg/L
GWC-45-031020	GWC-45	N	2629875	SW6020B	Zinc	0.0031	J	U*	BE	mg/L
GWC-45R-031020	GWC-45R	N	2629875	SW6020B	Boron	0.009	J	J	--	mg/L
GWC-45R-031020	GWC-45R	N	2629875	SW6020B	Chromium	0.00092	J, B	U*	BL, BE	mg/L
GWC-45R-031020	GWC-45R	N	2629875	SW6020B	Zinc	0.0035	J	U*	BE	mg/L
DUP-2-031020	GWC-45R	FD	2629875	SW6020B	Boron	0.0092	J	J	--	mg/L
DUP-2-031020	GWC-45R	FD	2629875	SW6020B	Chromium	0.00069	J, B	U*	BL, BE	mg/L
DUP-2-031020	GWC-45R	FD	2629875	SW6020B	Zinc	0.0056	J	U*	BE	mg/L
GWC-46R-031020	GWC-46R	N	2629875	SW6020B	Chromium	0.0035	J, B	U*	BL, BE	mg/L
GWC-46R-031020	GWC-46R	N	2629875	SW6020B	Zinc	0.0029	J	U*	BE	mg/L
GWC-47-030920	GWC-47	N	2629875	SW6020B	Antimony	0.00032	J	U*	BE	mg/L
GWC-47-030920	GWC-47	N	2629875	SW6020B	Barium	0.0089	J	J	--	mg/L
GWC-47-030920	GWC-47	N	2629875	SW6020B	Cadmium	0.00015	J	J	--	mg/L
GWC-47-030920	GWC-47	N	2629875	SW6020B	Chromium	0.0012	J, B	U*	BL, BE	mg/L
GWC-47-030920	GWC-47	N	2629875	SW6020B	Lead	0.000058	J	J	--	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Antimony	0.00056	J	U*	BE	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Arsenic	0.00051	J	J	--	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Barium	0.0082	J	J	--	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Boron	0.0051	J	J	--	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Chromium	0.0023	J, B	U*	BL, BE	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Copper	0.00032	J	U*	BE	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Lead	0.00008	J	J	--	mg/L
GWC-47R-030920	GWC-47R	N	2629875	SW6020B	Thallium	0.00021	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Beryllium	0.00028	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Cadmium	0.00016	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Chromium	0.0023	J, B	J	BL, BE	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Cobalt	0.0016	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Copper	0.00035	J	U*	BE	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Nickel	0.0039	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Thallium	0.00009	J	J	--	mg/L
GWC-48-030920	GWC-48	N	2629875	SW6020B	Zinc	0.0079	J	U*	BE	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 2629875
SAMPLING DATE: March 6-March 11, 2020
Plant Bowen Landfill Cells 9 & 10: Event # 14

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-49R-031120	GWC-49R	N	2629875	SW6020B	Antimony	0.0012	J, B	U*	BL	mg/L
GWC-49R-031120	GWC-49R	N	2629875	SW6020B	Arsenic	0.00041	J	J	--	mg/L
GWC-49R-031120	GWC-49R	N	2629875	SW6020B	Chromium	0.0012	J, B	U*	BL, BE	mg/L
GWC-49R-031120	GWC-49R	N	2629875	SW6020B	Nickel	0.0004	J	J	--	mg/L
GWC-49R-031120	GWC-49R	N	2629875	SW6020B	Zinc	0.0036	J, B	U*	BL, BE	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6010D	Calcium	0.87	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Antimony	0.0018	J	U*	BE	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Barium	0.0045	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Boron	0.0055	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Chromium	0.00096	J, B	U*	BL, BE	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Cobalt	0.0028	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Copper	0.00035	J	U*	BE	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Lead	0.00017	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Nickel	0.003	J	J	--	mg/L
GWC-49Z-030920	GWC-49Z	N	2629875	SW6020B	Zinc	0.0047	J	U*	BE	mg/L

Notes:

Laboratory Qualifiers:

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

B = Analyte was detected in the associated method blank.

Reason Codes:

BE = Equipment blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

-- = No Reason Code assigned for values detected between the method detection limit (MDL) and the reporting limit (RL);estimated quantitation.

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: EWIP 04/07/20

Checked by/Date: JAH 04/07/20

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 2629875

Reviewer/Date: E. Phillips 4/6/20

Senior Reviewer/Date: J. Hartness 4/07/20

YES NO NA

COMMENTS

<input checked="" type="checkbox"/>	<p>Case Narrative and COC Completeness Review OK</p>
<input checked="" type="checkbox"/>	<p>Sample Preservation and cooler temperature met (HNO₃ to pH<2) OK, 2.3°C</p>
<input checked="" type="checkbox"/>	<p>Holding times met (180 days; Hg = 28 days) Coll: 03/06/20, 03/09/20, 03/10/20, 03/11/20 Prep: metals – 03/13/20, 03/16/20, 03/17/20, 03/18/20, 03/23/20 Hg – 03/12/20, 03/18/20 Anal: metals – 03/16/20, 03/17/20, 03/19/20, 03/22/20, 03/24/20, Hg – 03/13/20, 03/18/20</p>
<input checked="" type="checkbox"/>	<p>QC Blanks Review <u>Method Blanks:</u> p. 37 MB 204276 Hg = ND p. 38 MB 205409 Hg = ND p. 39 MB 204811 Ca = ND p. 40 MB 205490 Ca = ND p. 41 MB 206317 Ca = ND p. 42 MB 206402 Ca = ND p. 43 MB 204815 All metals = ND p. 45 MB 205055 Antimony = 0.00031 J x 5 = 0.00155 mg/L Flag FBL030620, EQBL030620, GWA-39Z "U" p. 47 MB 205363 Chromium = 0.00045 J x 5 = 0.00225 mg/L Flag GWA-40, GWA-41R, GWA-43, GWA-43R, GWC-47, GWA-47R, GWA-48, GWC-49Z, GWC-44, GWC-45, GWC-45R, DUP-2 "U" p. 49 MB 205651 Antimony = 0.00029 J x 5 = 0.00145 mg/L Chromium = 0.0013 J x 5 = 0.0065 mg/L Zinc = 0.0018 J x 5 = 0.0090 mg/L Flag GWC-49R "U"</p> <p><u>Field blank: (use highest result to apply flags)</u> FBL-030620 Sb - 0.00082 J x 5 = 0.0041 mg/L FB flagged "U" due to MB contamination, No flags applied FBL-031020 Zn - 0.0017 J x 5 = 0.0085 mg/L Flag associated sample results <5x blank "U".</p>

Metals and Mercury by 6020B/7470A (cont.)

YES NO NA COMMENTS

Equipment blanks: (use highest result to apply flags)

EQBL-030620 Sb - 0.00032 J x 5 = **0.0016** mg/L
 (No flags – Sb flagged "U*" due to MB)
 Cr - 0.0035 J x 5 = **0.0175** mg/L
 Cu - 0.00021 J x 5 = **0.00105** mg/L
 Zn - 0.0037 J x 5 = **0.0185** mg/L

Flag associated sample results <5x blank "U*".

EQBL-031020 All ND

**Laboratory Control Sample (LCS) recovery within limits
 (Metals 70-130%, Hg = 80-120%)**

p. 37 LCS 204277 Hg = 105%
 p. 38 LCS 205410 Hg = 103%
 p. 39 LCS 204812 Ca = 105%
 p. 40 LCS 205491 Ca = 109%
 p. 41 LCS 206318 Ca = 105%
 p. 42 LCS 206403 Ca = 97%
 p. 43 LCS 204816 %Recs OK
 p. 45 LCS 205056 %Recs OK
 p. 47 LCS 205364 %Recs OK
 p. 49 LCS 205652 %Recs OK

Lab Duplicate - Field Duplicate precision goals met (20%)

Field Dup (GWA-42/Dup-1-030620)

	<u>GWA-42</u>	<u>Dup-1</u>	<u>*Diff/RPD</u>	<u>RL</u>
Calcium	38	36.8	3.2	ok
Barium	0.0066J	0.0068J	0.0002	0.010 ok
beryllium	0.00017J	0.00018J	0.00001	0.003 ok
Boron	0.0068J	0.0053J	0.0015	0.040 ok
Cadmium	0.00014J	0.00013J	0.00001	0.0025 ok
Chromium	0.00045J	0.00089J	0.00044	0.010 ok
Cobalt	0.00039J	0.00034J	0.00005	0.005 ok
Copper	0.00019J	0.00020J	0.00001	0.025 ok
Lead	0.00011J	0.000098J	0.000012	0.005 ok
Nickel	0.0015J	0.0013J	0.0002	0.010 ok
Thallium	0.000086J	<0.001	0.000914	0.001 ok
Zinc	0.012	0.011	8.7	ok

*for results <RL, diff must be <RL

Metals and Mercury by 6020B/7470A (cont.)

YES NO NA COMMENTS

Lab Duplicate - Field Duplicate precision goals met (20%)

Field Dup (GWC-45R/Dup-2-031020)

	<u>GWC-45R</u>	<u>Dup-2</u>	<u>*Diff/RPD</u>	<u>RL</u>
Calcium	43.5	42.4	2.6	ok
Barium	0.024	0.025	4.1	ok
Boron	0.0090J	0.0092J	0.0002	0.040 ok
Chromium	0.00092J	0.00069J	0.00013	0.010 ok
Zinc	0.0035J	0.0056J	0.0021	0.010 ok

**for results <RL, diff must be <RL*

Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)

p. 37 non-project sample of this SDG (2629701014- Hg)

p. 38 GWA-39RZ Hg All OK

p. 39 GWA-41 Calcium **-69%**, **-90%**;=1 OK

No flag, parent concentration >4x spike amount

p. 40 non-project sample of this SDG (2629901001 - calcium)

p. 41 GWA-43 Calcium All OK

p. 42 non-project sample of this SDG (2630125005 – calcium)

p. 44 non-project sample of this SDG (2629786015 - metals)

p. 46 GWA-42 Metals All OK

p. 48 GWA-40 Metals All OK

p. 50 non-project sample of this SDG (2630003002 - metals)

Total metals vs dissolved metals within limits (RPD < 20% or diff. < RL)

No dissolved metals in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDGs: 2629875

Reviewer/Date: E. Phillips 4/6/20 **Senior Reviewer/Date:** J. Hartness 4/07/20

YES NO NA COMMENTS

Case Narrative and COC Completeness Review
OK

Sample Preservation and cooler temperature met (Cool to 6°C)
OK; 2.3°C

Holding times met (Cl, SO₄, F – 28 days)
Coll: 03/06/20, 03/09/20, 03/10/20, 03/11/20
Anal: 03/15/20, 03/17/20, 03/19/20

QC Blanks Review
Method Blanks:
p. 55 MB 2832234 = ND
p. 56 MB 2834329 = ND
p. 57 MB 2834341 = ND
p. 58 MB 2837011 = ND

Field blank:
FBL-030620 = ND
FBL-031020 = ND
Equipment blanks:
EQBL-030620 = ND
EQBL-031020 = ND

Laboratory Control Sample (LCS) recovery within limits (90-110%)
p. 55 LCS 2832235 – All OK
p. 56 LCS 2834330 – All OK
p. 57 LCS 2834342 – All OK
p. 58 LCS 2837012 – All OK

Lab Duplicate - Field Duplicate precision goals met (20%)
Field Dup (GWA-42/Dup-1-030620)

	<u>GWA-42</u>	<u>Dup-1</u>	<u>RPD</u>
Chloride	2.7	2.7	0% ok
Sulfate	1.7	2.4	34%

Flag sample analytes "J"

Field Dup (GWC-45R/Dup-2-031020)-All OK

	<u>GWC-45R</u>	<u>Dup-2</u>	<u>RPD</u>
Chloride	4.4	4.4	0% ok
Sulfate	5.2	5.2	0% ok



Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)

- p. 55 non-project sample of this SDG (92469145020) -%Rec and RPDs OK
- p. 55 non-project sample of this SDG (2629779009) -%Rec and RPDs OK
- p. 56 non-project sample of this SDG (2629967011) -Flouride=**116, 120**% RPD=3
No action needed, non-project samples
- p. 56 non-project sample of this SDG (2630017004) -Flouride=109, **111**% RPD=1
No action needed, non-project samples
- p. 57 GWC-47-%Rec and RPDs OK
- p. 57 EQBL031020 -Fluoride=**114, 111**% RPD = 3
No action needed; sample non-detect.
- p. 58 non-project sample of this SDG (2630073003) -%Rec and RPDs OK
- p. 58 non-project sample of this SDG (2630125015) -%Rec and RPDs OK



EDD Data Verification vs. Hardcopy (10% samples for each SDG)



LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 14 – Semiannual State D&O Permit Event

Project No: 6122160287.2003.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 2629875

Reviewer/Date: E. Phillips 4/6/20

Senior Reviewer/Date: J. Hartness 4/07/20

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
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<input checked="" type="checkbox"/>			Case Narrative and COC Completeness Review OK																
<input checked="" type="checkbox"/>			Sample Preservation and cooler temperature met (Cool to 6°C) OK; 2.3°C																
<input checked="" type="checkbox"/>			Holding times met (7 days) Coll: 03/06/20, 03/09/20, 03/10/20, 03/11/20 Anal: 03/13/20, 03/16/20, 03/17/20, 03/18/20																
	<input checked="" type="checkbox"/>		QC Blanks Review <u>Method Blanks:</u> No MB required by the method. <u>Field blank:</u> FBL-030620 = ND FBL-031020 = 89 x 5 = 445 mg/L No flags for TDS in blanks due to ES rule <u>Equipment blanks:</u> EQBL-030620 = ND EQBL-031020 = 38 x 5 = 190 mg/L No flags for TDS in blanks due to ES rule																
<input checked="" type="checkbox"/>			Laboratory Control Sample (LCS) recovery within lab limits p. 51 LCS 204885 TDS = 94% - OK p. 52 LCS 205087 TDS = 106%-OK p. 53 LCS 205165 TDS = 97%-OK p. 54 LCS 205508 TDS = 96%-OK																
<input checked="" type="checkbox"/>			Lab Duplicate - Field Duplicate precision goals met (20%) Field Dup (GWA-42/Dup-1-030620) <table border="1"> <thead> <tr> <th></th> <th><u>GWA-42</u></th> <th><u>Dup-1</u></th> <th><u>RPD</u></th> </tr> </thead> <tbody> <tr> <td>TDS</td> <td>143</td> <td>147</td> <td>2.8% ok</td> </tr> </tbody> </table> Flag sample analytes "J" Field Dup (GWC-45R/Dup-2-031020)-All OK <table border="1"> <thead> <tr> <th></th> <th><u>GWC-45R</u></th> <th><u>Dup-2</u></th> <th><u>RPD</u></th> </tr> </thead> <tbody> <tr> <td>TDS</td> <td>245</td> <td>257</td> <td>4.8% ok</td> </tr> </tbody> </table>		<u>GWA-42</u>	<u>Dup-1</u>	<u>RPD</u>	TDS	143	147	2.8% ok		<u>GWC-45R</u>	<u>Dup-2</u>	<u>RPD</u>	TDS	245	257	4.8% ok
	<u>GWA-42</u>	<u>Dup-1</u>	<u>RPD</u>																
TDS	143	147	2.8% ok																
	<u>GWC-45R</u>	<u>Dup-2</u>	<u>RPD</u>																
TDS	245	257	4.8% ok																

Lab dups:

p. 51-54 Non-project samples (2629872001, 2629907005, 2629938004, 2630064013, 2630143002, & 2630050002); RPD = 1, **143**, **21**, NC, NC, 1

Action: No action needed, non-project samples.

p. 52 GWC-47 RPD = 4 OK



Matrix Spike recoveries and RPDs within limits (if applicable)

None for TDS



EDD Data Verification vs. Hardcopy (10% samples for each SDG)

RPD Calculations

Quality control procedures included calculating the relative percent difference (RPD) between sample and sample duplicate concentrations. This is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2) / 2}$$

The RPD calculations are provided in the attached table (**RPD Calculations**) for all detected concentrations above the laboratory reporting limit for wells and corresponding duplicates. Other constituents were below the laboratory reporting limit. For an RPD to be representative of the process, the concentrations have to be five times the laboratory reporting limit in accordance with US EPA guidance on inorganic data review, (US EPA August 2014). The RPD values of concentrations five times the laboratory reporting limit ranged within the allowable 20% RPD indicating good sampling precision with a few exceptions which include sulfate and TDS in two sample pairs each. The RPD for sulfate in GWC-11R/Dup-2 was outside of quality control limits and the results were not qualified because the concentrations were less than five times the laboratory reporting limit. The RPD for sulfate in GWA-42/Dup-1 was outside of quality control limits and was qualified as estimated and J-flagged. The concentrations of sulfate in both sample sets are low: consequently, slight variation between the two samples resulted in an elevated RPD. The sulfate results are considered valid and appropriate for use in statistical analysis.

The RPD for TDS in GWA-2R/Dup-1 and GWC-15Z/Dup-3 were outside of quality control limits due to analyst error and were qualified as estimated and J-flagged. The TDS results are considered valid and appropriate for use in statistical analysis.

RPD CALCULATIONS

Cells 1 & 2			
Parameter	Concentration 1	Concentration 2	
3/11/2020	Dup-1	GWA-2R	RPD
Barium	0.027	0.027	0%
Calcium	47.2	46.8	1%
Sulfate	32.1	34.3	7%
Total Dissolved Solids	249	170	38%
Parameter	Concentration 1	Concentration 2	
3/12/2020	Dup-2	GWC-11R	RPD
Barium	0.020	0.021	5%
Calcium	31.3	32.5	4%
Chloride	1.5	1.5	0%
Sulfate	3.2	1.5	72%
Total Dissolved Solids	103	125	19%
Parameter	Concentration 1	Concentration 2	
3/13/2020	Dup-3	GWC-15Z	RPD
Barium	0.014	0.014	0%
Calcium	24.7	24.2	2%
Sulfate	1.2	1.1	9%
Total Dissolved Solids	100	76	27%
Cells 3 & 4			
Parameter	Concentration 1	Concentration 2	
3/2/2020	Dup-1	GWA-52	RPD
Barium	0.021	0.023	9%
Calcium	33.4	33.7	1%
Chloride	5	4.9	2%
Sulfate	16.7	16.3	2%
Total Dissolved Solids	151	142	6%
Parameter	Concentration 1	Concentration 2	
3/4/2020	DUP-2	GWA-55R	RPD
Barium	0.029	0.029	0%
Calcium	41	39.9	3%
Chloride	2.6	2.6	0%
Sulfate	23.6	23.4	1%
Total Dissolved Solids	206	207	0%
Parameter	Concentration 1	Concentration 2	
3/5/2020	DUP-3	GWC-20R	RPD
Barium	0.029	0.028	4%
Calcium	39.2	38.9	1%
Chloride	1.6	1.5	6%
Sulfate	1.2	1.1	9%
Total Dissolved Solids	174	171	2%
Cells 9 & 10			
Parameter	Concentration 1	Concentration 2	
3/6/2020	Dup-1	GWA-42	RPD
Calcium	36.8	38	3%
Zinc	0.011	0.012	9%
Chloride	2.7	2.7	0%
Sulfate	2.4	1.7	34%
Total Dissolved Solids	147	143	3%
Parameter	Concentration 1	Concentration 2	
3/10/2020	Dup-2	GWC-45R	RPD
Barium	0.025	0.024	4%
Calcium	42.4	43.5	3%
Chloride	4.4	4.4	0%
Sulfate	5.2	5.2	0%
Total Dissolved Solids	257	245	5%

concentrations in mg/L

FIELD SAMPLING DATA

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed (secs)	DTW (feet, TOC)	Drawdown (feet)	Temperature (C)	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
GWA-1	3/11/20	2.4	1444	79.94	5.6	10.0	7.5	312.4	0.5	0.4	62.3
GWA-2	3/11/20	11.0	6016	71.48	0.04	16.4	6.6	450.7	0.6	6.1	121.1
GWA-2R	3/11/20	3.6	1442	73.28	1.5	16.5	7.1	321.0	0.4	4.7	125.4
GWA-3	3/11/20	18.9	10079	60.01	16.5	11.6	5.3	21.8	1.6	9.3	182.2
GWA-4RZ	3/12/20	5.1	1920	86.03	7.8	15.6	7.1	406.3	0.6	0.2	29.1
GWA-4RZ	3/12/20	5.1	120	86.03	7.8	15.6	7.5	342.0	0.6	3.4	109.7
GWC-5	3/11/20	6.0	2163	70.91	4.9	16.3	9.4	83.8	1.3	5.6	141.1
GWC-5	3/16/20	4.0	1920	68.88	2.4	15.2	6.9	72.6	2.9	8.7	61.2
GWC-6	3/12/20	5.1	2341	60.22	0.3	16.3	7.4	144.9	3.2	7.3	121.0
GWC-6RZ	3/12/20	3.9	1680	64.73	0.05	15.8	6.9	93.8	1.8	7.2	85.8
GWC-7Z	3/12/20	5.4	2881	44.46	0.1	17.2	7.5	230.2	2.6	3.6	113.3
GWC-8Z	3/13/20	24.1	10319	36.05	0.6	10.7	7.6	188.1	15.8	9.8	94.8
GWC-8Z	3/16/20	6.8	4080	36.80	0.5	14.7	7.0	131.2	3.8	8.5	60.0
GWC-8RR	3/12/20	5.3	2640	35.28	0.06	11.1	8.0	193.0	1.2	9.6	121.4
GWC-9	3/12/20	4.2	1680	32.02	0.02	16.6	4.8	31.8	1.3	6.9	178.9
GWC-10	3/12/20	9.4	4320	24.52	0.06	16.0	6.4	135.2	1.0	8.5	95.9
GWC-10R	3/12/20	6.0	2400	24.56	0.03	16.3	7.5	242.4	0.3	7.8	82.8
GWC-11	3/12/20	2.7	1260	15.35	0.04	17.5	6.3	89.9	0.8	4.2	123.1
GWC-11R	3/12/20	3.5	1620	15.27	0.03	18.3	7.6	282.0	3.0	6.1	173.0
GWC-12	3/12/20	5.3	2640	15.01	0.3	18.3	6.2	106.3	3.6	0.4	23.4
GWC-13	3/13/20	14.4	8641	24.08	0.1	17.5	7.3	243.6	4.6	5.3	140.2
GWC-13RZ	3/16/20	27.5	11280	93.80	40.3	15.7	7.5	465.7	0.6	2.0	121.3
GWC-13RZ	3/17/20	27.5	60	93.80	40.3	16.8	7.6	407.7	0.6	9.4	132.2
GWC-14Z	3/13/20	3.1	1440	26.62	2.0	18.2	6.2	133.3	3.5	4.6	82.5
GWC-15R	3/13/20	14.0	6240	32.53	0.2	18.3	7.6	303.3	4.4	2.8	43.7
GWC-15Z	3/13/20	2.8	1200	32.63	0.6	17.0	7.7	193.3	0.8	6.9	58.6
GWC-16R	3/4/20	6.8	3120	75.96	1.3	15.2	7.4	500.9	0.4	5.3	93.9
GWC-17R	3/4/20	4.3	1920	83.10	6.7	16.2	7.3	570.7	0.2	8.0	38.8
GWC-17R	3/5/20	4.3	60	83.10	6.7	13.4	7.3	455.0	0.2	8.6	86.8
GWC-18	3/6/20	12.0	7200	65.93	0	9.9	7.0	208.9	3.8	8.0	70.9
GWC-18R	3/5/20	7.6	4560	66.60	0	8.5	7.8	269.3	3.5	7.9	50.7
GWC-19R	3/4/20	21.2	11885	70.53	0.1	15.9	7.7	291.3	7.5	6.8	78.4
GWC-20R	3/5/20	5.4	2160	64.89	0.1	15.5	7.6	329.9	0.5	5.8	39.1
GWC-21R	3/3/20	9.0	4685	70.64	5.5	17.0	7.1	565.4	0.9	4.4	54.0
GWC-22R	3/3/20	5.9	2340	57.30	0.04	16.8	7.2	338.7	1.9	4.1	39.6
GWC-23R	3/4/20	4.8	2640	39.91	6.2	9.8	7.3	572.7	4.3	6.4	74.5
GWC-23R	3/5/20	4.8	60	39.91	6.2	7.4	7.2	365.1	4.3	9.8	145.4
GWC-24R	3/3/20	3.9	1804	19.03	0.8	16.8	7.6	285.9	0.7	3.5	41.7
GWC-25R	3/3/20	2.3	902	17.42	0	15.9	7.6	319.2	0.5	5.9	41.8

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed (secs)	DTW (feet, TOC)	Drawdown (feet)	Temperature (C)	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
GWA-36	3/2/20	2.2	1200	24.42	0	15.2	6.6	131.0	1.2	5.6	30.5
GWA-36R	3/2/20	3.1	1200	24.09	0.03	15.7	7.2	312.6	3.6	5.1	54.5
GWA-37	3/2/20	12.4	6870	57.11	13.1	15.4	5.5	21.6	0.1	4.1	39.8
GWA-38	3/2/20	3.8	1680	50.17	1.1	16.2	5.5	39.7	0.6	8.0	88.2
GWA-39RZ	3/9/20	21.2	12729	66.45	19.2	10.3	7.7	282.7	0.5	2.8	6.1
GWA-39Z	3/9/20	5.7	2641	50.86	0.2	10.4	5.9	37.4	1.8	9.7	76.1
GWA-40	3/9/20	6.3	2886	56.25	0.04	18.3	7.5	237.8	1.0	7.2	87.7
GWA-41	3/6/20	2.7	1260	44.86	0.09	16.3	6.8	220.5	4.1	5.5	59.0
GWA-41R	3/9/20	3.0	1621	59.31	0.2	16.6	6.7	203.3	1.5	3.4	78.0
GWA-42	3/6/20	2.5	1080	64.73	0.03	16.3	7.4	277.8	2.5	3.8	42.8
GWA-43	3/9/20	3.0	1262	40.69	0.2	16.8	5.5	24.0	1.9	7.7	94.1
GWA-43R	3/9/20	6.8	3421	41.15	0.05	16.5	7.7	261.1	3.3	6.3	110.2
GWC-44	3/10/20	3.6	1440	40.60	0.5	17.5	4.4	144.9	0.1	3.5	159.2
GWC-45	3/10/20	3.6	2168	35.13	2.9	17.7	5.0	23.5	1.0	5.9	64.4
GWC-45R	3/10/20	2.9	1260	42.05	0.08	17.8	7.1	365.4	0.4	4.2	98.7
GWC-46R	3/10/20	2.9	1440	30.14	0.9	17.5	7.4	458.9	0.1	7.1	41.0
GWC-47	3/9/20	3.6	1680	30.68	0.01	17.7	7.2	214.6	3.5	3.2	50.3
GWC-47R	3/9/20	3.0	1440	33.12	2.5	18.1	7.5	312.3	0.7	1.9	38.5
GWC-48	3/9/20	7.3	3120	27.35	0.06	17.5	5.2	48.3	0.6	3.8	109.4
GWC-49R	3/9/20	1.2	720	46.26	0.03	17.2	10.2	153.6	0.4	0.9	55.2
GWC-49R	3/9/20	1.8	960	46.26	0.03	19.1	10.8	206.5	1.3	1.2	56.3
GWC-49R	3/10/20	61.0	4080	46.33	0.05	16.3	7.9	280.2	3.6	4.5	28.3
GWC-49R	3/11/20	7.7	2640	46.36	0.02	17.8	8.2	220.8	0.7	6.4	90.1
GWC-49Z	3/9/20	3.0	1440	46.44	0.9	16.0	5.6	23.8	1.6	6.7	53.8
GWA-50	3/11/20	16.0	7680	60.42	12.4	17.0	5.6	18.0	0.5	6.9	148.4
GWA-50R	3/11/20	4.5	1920	63.85	0.07	16.5	5.4	17.8	0.2	10.3	128.7
GWA-51RZ	3/2/20	29.0	5280	84.73	30.2	16.3	7.5	373.4	0.5	4.9	15.0
GWA-51RZ	3/3/20	29.0	120	84.73	30.2	16.2	7.7	387.0	0.5	7.4	97.4
GWA-52	3/2/20	3.9	1802	49.98	0	16.1	7.4	292.0	0.4	5.8	56.2
GWA-53	3/4/20	7.1	3061	51.12	0.03	16.2	7.6	266.9	4.2	7.9	47.4
GWA-53R	3/4/20	3.6	2160	47.35	2.2	10.4	7.7	277.9	1.2	15.9	80.4
GWA-54	3/3/20	3.2	2400	44.33	0.01	18.1	7.6	230.1	1.1	4.0	13.6
GWA-55	3/3/20	4.1	1200	36.53	0.01	17.4	7.0	345.7	0.6	4.7	28.7
GWA-55R	3/4/20	3.8	1680	36.52	0.02	16.3	7.3	357.7	0.8	5.7	43.5
GWA-56	3/4/20	4.4	2400	32.38	0.3	16.3	8.0	562.9	0.7	1.1	48.9

Product Name: Low-Flow System

Date: 2020-03-11 10:21:24

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 152 ft

Pump placement from TOC 146.80 ft

Well Information:

Well ID GWA-1
Well diameter 2 in
Well Total Depth 151.80 ft
Screen Length 10 ft
Depth to Water 74.30 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.15844 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 67.68 in
Total Volume Pumped 2.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	10:02:46	479.99	9.74	7.51	312.68	0.48	79.46	0.35	111.43
Last 5	10:06:46	719.98	9.80	7.51	312.50	0.44	79.58	0.35	90.56
Last 5	10:10:46	959.96	9.86	7.51	312.46	0.43	79.71	0.36	75.88
Last 5	10:14:46	1199.95	9.93	7.51	312.38	0.40	79.85	0.38	67.86
Last 5	10:18:50	1443.94	9.98	7.51	312.38	0.47	79.94	0.39	62.29
Variance 0			0.06	-0.00	-0.03			0.01	-14.68
Variance 1			0.07	0.00	-0.09			0.01	-8.02
Variance 2			0.05	0.00	-0.00			0.02	-5.57

Notes

Pre-purged 5 liters.

Grab Samples

GWA-1
Metals
GWA-1
TDS
GWA-1
Inorganics

Product Name: Low-Flow System

Date: 2020-03-11 11:30:05

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 158.25 ft

Pump placement from TOC 149.25 ft

Well Information:

Well ID GWA-2
Well diameter 2 in
Well Total Depth 154.25 ft
Screen Length 10 ft
Depth to Water 71.44 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 1.191337 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 11.03 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	11:11:07	5056.25	16.36	6.49	422.86	0.63	71.48	6.03	114.25
Last 5	11:15:07	5296.25	16.35	6.51	433.59	0.59	71.48	6.02	115.99
Last 5	11:19:07	5536.25	16.33	6.53	440.91	0.60	71.48	6.08	117.78
Last 5	11:23:07	5776.25	16.38	6.54	446.13	0.61	71.48	6.12	119.51
Last 5	11:27:07	6016.25	16.38	6.56	450.74	0.58	71.48	6.11	121.14
Variance 0			-0.02	0.02	7.32			0.06	1.79
Variance 1			0.05	0.01	5.22			0.04	1.73
Variance 2			0.00	0.01	4.62			-0.00	1.62

Notes

Prepurged 1 L
Well took hour and a half to stabilize conductivity

Grab Samples

GWA-2
Metals
GWA-2
TDS

GWA-2
Inorganics



Product Name: Low-Flow System

Date: 2020-03-11 12:43:40

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 111.40 ft

Pump placement from TOC 102.40 ft

Well Information:

Well ID GWA-2R
Well diameter 2 in
Well Total Depth 107.40 ft
Screen Length 10 ft
Depth to Water 71.77 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9822254 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 18.12 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:24:08	480.02	16.50	7.07	332.47	1.21	73.14	4.17	118.34
Last 5	12:28:08	720.02	16.47	7.14	336.39	1.06	73.21	4.25	120.43
Last 5	12:32:08	960.02	16.47	7.17	335.13	0.74	73.26	4.38	122.07
Last 5	12:36:08	1200.02	16.51	7.14	328.48	0.53	73.27	4.57	123.92
Last 5	12:40:10	1441.85	16.50	7.09	321.01	0.42	73.28	4.73	125.37
Variance 0			0.00	0.03	-1.26			0.12	1.64
Variance 1			0.03	-0.03	-6.65			0.20	1.86
Variance 2			-0.01	-0.04	-7.47			0.16	1.45

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-2R
Metals
GWA-2R
TDS

GWA-2R
Inorganics
DUP-1
Metals
DUP-1
TDS
DUP-1
Inorganics

Product Name: Low-Flow System

Date: 2020-03-11 15:43:31

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 99 ft

Pump placement from TOC 93.20 ft

Well Information:

Well ID GWA-3
Well diameter 2 in
Well Total Depth 98.20 ft
Screen Length 10 ft
Depth to Water 43.55 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.9218789 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 197.52 in
Total Volume Pumped 18.88 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	15:22:55	9119.47	11.51	5.31	21.78	1.63	59.43	9.15	175.28
Last 5	15:26:55	9359.46	11.51	5.31	21.76	1.57	59.60	9.14	176.44
Last 5	15:30:55	9599.44	11.56	5.32	21.74	1.29	59.74	9.22	177.87
Last 5	15:34:55	9839.43	11.59	5.31	21.77	1.21	59.88	9.26	179.25
Last 5	15:38:55	10079.42	11.56	5.31	21.75	1.61	60.01	9.29	182.20
Variance 0			0.05	0.00	-0.02			0.08	1.42
Variance 1			0.02	-0.00	0.02			0.04	1.39
Variance 2			-0.03	0.00	-0.02			0.03	2.95

Notes

Pre-purged 5 liters. Pump rate changed to 100ml/min. @ 1342.

Grab Samples

- GWA-3
Metals
- GWA-3
TDS
- GWA-3
Inorganics

Product Name: Low-Flow System

Date: 2020-03-11 11:00:21

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 95.8 ft

Pump placement from TOC 90.8 ft

Well Information:

Well ID GWA-4RZ
Well diameter 2 in
Well Total Depth 95.8 ft
Screen Length 10 ft
Depth to Water 78.63 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.9125959 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 93.14 in
Total Volume Pumped 5.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:42:17	959.96	16.11	7.08	406.89	0.20	82.81	0.21	47.93
Last 5	10:46:17	1199.95	16.04	7.07	406.88	4.49	83.69	0.19	42.47
Last 5	10:50:17	1439.93	16.20	7.05	407.95	0.39	84.44	0.18	38.42
Last 5	10:54:17	1679.92	16.11	7.05	406.60	0.56	85.24	0.18	33.59
Last 5	10:58:17	1919.90	15.97	7.07	406.28	0.64	86.03	0.18	29.06
Variance 0			0.16	-0.02	1.07			-0.01	-4.04
Variance 1			-0.09	0.00	-1.34			-0.00	-4.84
Variance 2			-0.14	0.02	-0.33			0.00	-4.52

Notes

Prepurged 1L
Complete evacuation- Will collect sample on 3.12.20

Grab Samples

Report Created: 2020-03-12 10:06:09
 Site: Bowen GWA-4RZ
 Log Created: 2020-03-12 10:04:35
 Number Readings: 11
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 652065
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 642531

Created	Baro (mba)	Temp (C)	RDO (mg/l)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (µS/cm)	Sp Cond (µS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm³)	TDS (ppt)	Depth (ft)	Pressure (ft)	Air Temp (C)
3/12/2020 10:04	991	16.56	4.2	44.1	7.58	118.7	353.9	421.9	0.2	2826	0.999	0	-0.2	-0.085	18.3
3/12/2020 10:04	991	16.46	4.2	44.1	7.58	118.2	353.9	421.9	0.2	2826	0.999	0	-0.2	-0.085	18.3
3/12/2020 10:04	991.1	16.29	3.86	40.3	7.57	116	344.9	413.3	0.2	2900	0.999	0	-0.22	-0.094	18.3
3/12/2020 10:04	991	16.05	3.68	38.3	7.57	116	338.3	406.5	0.2	2956	0.999	0	-0.23	-0.099	18.3
3/12/2020 10:05	991.1	15.89	3.58	37.2	7.56	115.8	341.5	412.1	0.2	2929	0.999	0	-0.18	-0.08	18.3
3/12/2020 10:05	991	15.8	3.54	36.6	7.55	114.9	339.6	411.5	0.2	2945	0.999	0	-0.18	-0.077	18.3
3/12/2020 10:05	991	15.74	3.52	36.4	7.55	114	338.5	411.1	0.2	2954	0.999	0	-0.19	-0.084	18.4
3/12/2020 10:05	991.1	15.68	3.47	35.8	7.54	113.2	339.9	412.8	0.2	2942	0.999	0	-0.22	-0.095	18.4
3/12/2020 10:05	991	15.66	3.48	35.8	7.53	112.1	340.8	414.8	0.2	2934	0.999	0	-0.24	-0.103	18.4
3/12/2020 10:05	991	15.63	3.48	35.8	7.53	110.9	341.5	415.8	0.2	2928	0.999	0	-0.21	-0.091	18.4
3/12/2020 10:06	991	15.63	3.44	35.4	7.52	109.7	342	416.4	0.2	2924	0.999	0	-0.24	-0.105	18.4

Product Name: Low-Flow System

Date: 2020-03-11 16:36:08

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 117.75 ft

Pump placement from TOC 108.75 ft

Well Information:

Well ID GWC-5
Well diameter 2 in
Well Total Depth 113.75 ft
Screen Length 10 ft
Depth to Water 66.00 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 1.010568 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 58.92 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:17:06	1443.49	16.79	9.70	92.34	0.94	68.52	4.81	142.46
Last 5	16:20:06	1623.50	16.52	9.46	84.05	1.15	69.21	5.21	141.46
Last 5	16:23:06	1803.49	16.42	9.66	88.65	1.17	69.84	5.22	141.65
Last 5	16:26:06	1983.49	16.39	9.58	87.15	1.29	70.38	5.39	141.61
Last 5	16:29:06	2163.50	16.34	9.44	83.84	1.33	70.91	5.57	141.08
Variance 0			-0.10	0.20	4.60			0.01	0.19
Variance 1			-0.03	-0.07	-1.50			0.17	-0.04
Variance 2			-0.05	-0.14	-3.31			0.19	-0.52

Notes

Prepurged 0.5 L

At time 901 (16:08), pump rate dropped to 100 mL/min to try and stabilize head drop. At time 1443 (16:17), pump rate raised to 240 mL/min to attempt to lower pH. pH too high to sample and protocol requires well redevelopment. KS called PR at 16:34.

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-16 12:35:38

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 113.7 ft

Pump placement from TOC 108.7 ft

Well Information:

Well ID GWC-5
Well diameter 2 in
Well Total Depth 113.7 ft
Screen Length 10 ft
Depth to Water 66.44 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.9924911 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 29.28 in
Total Volume Pumped 4.01 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:16:52	959.96	15.18	6.98	74.74	1.35	68.28	8.87	63.66
Last 5	12:20:52	1199.95	15.15	6.95	75.65	3.02	68.46	8.76	62.42
Last 5	12:24:52	1439.93	15.17	6.93	76.22	2.88	68.63	8.69	62.05
Last 5	12:28:52	1679.92	15.17	6.91	74.21	2.55	68.78	8.68	61.45
Last 5	12:32:52	1919.90	15.17	6.88	72.62	2.90	68.88	8.69	61.20
Variance 0			0.01	-0.03	0.57			-0.07	-0.37
Variance 1			-0.00	-0.02	-2.01			-0.00	-0.60
Variance 2			-0.00	-0.03	-1.59			0.01	-0.25

Notes

Prepurged 1L

Grab Samples

GWC-5
Metals
GWC-5
TDS
GWC-5
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 11:40:42

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 115.37 ft

Pump placement from TOC 106.37 ft

Well Information:

Well ID GWC-6
Well diameter 2 in
Well Total Depth 111.37 ft
Screen Length 10 ft
Depth to Water 59.96 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.9999451 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 3.12 in
Total Volume Pumped 5.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	11:24:55	1620.95	16.10	7.31	140.36	2.99	60.27	7.21	115.51
Last 5	11:27:55	1800.95	16.16	7.33	140.34	3.37	60.25	7.20	116.94
Last 5	11:30:55	1980.95	16.20	7.35	140.66	3.49	60.22	7.24	118.35
Last 5	11:33:55	2160.95	16.26	7.37	142.43	3.43	60.22	7.24	120.10
Last 5	11:36:55	2340.95	16.29	7.40	144.93	3.23	60.22	7.29	121.01
Variance 0			0.04	0.02	0.31			0.04	1.41
Variance 1			0.06	0.02	1.77			0.00	1.75
Variance 2			0.03	0.03	2.50			0.04	0.91

Notes

Prepurged 0.5 L
At Rhine 1620, dropped pump rate to 110 mL/min to stabilize turbidity.

Grab Samples

GWC-6
Metals
GWC-6
TDS

GWC-6
Inorganics



Product Name: Low-Flow System

Date: 2020-03-12 10:22:15

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 116.80 ft

Pump placement from TOC 107.80 ft

Well Information:

Well ID GWC-6RZ
Well diameter 2 in
Well Total Depth 112.80 ft
Screen Length 10 ft
Depth to Water 64.68 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 1.006328 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.6 in
Total Volume Pumped 3.92 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:03:36	720.02	15.75	6.80	95.63	5.74	64.73	6.74	85.14
Last 5	10:07:36	960.02	15.75	6.82	95.34	3.26	64.73	6.91	83.29
Last 5	10:11:36	1200.02	15.75	6.85	95.16	2.77	64.73	7.02	83.18
Last 5	10:15:36	1440.02	15.75	6.87	94.30	2.15	64.73	7.15	83.83
Last 5	10:19:36	1680.02	15.76	6.88	93.76	1.81	64.73	7.19	85.76
Variance 0			0.00	0.03	-0.17			0.11	-0.10
Variance 1			0.00	0.02	-0.86			0.13	0.64
Variance 2			0.00	0.01	-0.54			0.04	1.93

Notes

Prepurged 0.5 L
Well performed well

Grab Samples

GWC-6RZ
Metals
GWC-6RZ
TDS

GWC-6RZ
Inorganics



Product Name: Low-Flow System

Date: 2020-03-12 13:30:24

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 121.00 ft

Pump placement from TOC 112.00 ft

Well Information:

Well ID GWC-7Z
Well diameter 2 in
Well Total Depth 117.00 ft
Screen Length 10 ft
Depth to Water 44.36 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.025074 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:11:10	1921.00	16.96	7.41	231.04	5.43	44.47	3.55	94.23
Last 5	13:15:10	2161.00	17.03	7.45	230.74	4.96	44.47	3.54	99.85
Last 5	13:19:10	2401.00	17.19	7.48	231.14	3.68	44.46	3.55	104.48
Last 5	13:23:10	2641.00	17.19	7.50	230.65	2.88	44.46	3.56	109.72
Last 5	13:27:10	2881.00	17.17	7.53	230.19	2.63	44.46	3.61	113.33
Variance 0			0.16	0.03	0.40			0.02	4.63
Variance 1			0.01	0.02	-0.49			0.00	5.24
Variance 2			-0.02	0.03	-0.46			0.05	3.61

Notes

Prepurged 0.5 L
At time 720, pump rate dropped to 100 mL/min.

Grab Samples

GWC-7Z
Metals
GWC-7Z
TDS

GWC-7Z
Inorganics



Product Name: Low-Flow System

Date: 2020-03-12 15:37:26

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 112 ft

Pump placement from TOC 106.83 ft

Well Information:

Well ID GWC-8RR
Well diameter 2 in
Well Total Depth 111.83 ft
Screen Length 10 ft
Depth to Water 35.22 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.9799034 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.72 in
Total Volume Pumped 5.28 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	15:18:29	1679.92	11.01	7.88	192.92	1.55	35.29	9.45	113.40
Last 5	15:22:29	1919.91	10.95	7.93	192.41	1.37	35.28	9.44	115.27
Last 5	15:26:29	2159.89	11.05	7.97	192.46	1.14	35.29	9.50	116.98
Last 5	15:30:29	2399.87	11.10	7.99	192.45	1.19	35.29	9.54	119.00
Last 5	15:34:29	2639.86	11.05	8.02	193.02	1.17	35.28	9.55	121.45
Variance 0			0.09	0.04	0.05			0.06	1.72
Variance 1			0.05	0.03	-0.01			0.04	2.01
Variance 2			-0.05	0.02	0.57			0.00	2.45

Notes

Pre-purged 1 liter.

Grab Samples

GWC-8RR
Metals

GWC-8RR
TDS

GWC-8RR
Inorganics

Product Name: Low-Flow System

Date: 2020-03-13 13:10:54

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 77 ft

Pump placement from TOC 71.37 ft

Well Information:

Well ID GWC-8Z
Well diameter 2 in
Well Total Depth 76.37 ft
Screen Length 10 ft
Depth to Water 35.48 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.8236836 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 6.48 in
Total Volume Pumped 24.08 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	12:52:23	9359.46	10.44	7.49	180.11	13.75	36.22	9.90	94.24
Last 5	12:56:23	9599.45	10.53	7.50	182.00	14.75	36.22	9.93	94.54
Last 5	13:00:23	9839.43	10.62	7.52	183.59	13.69	36.10	9.91	94.62
Last 5	13:04:23	10079.42	10.82	7.54	185.41	14.78	36.06	9.75	94.89
Last 5	13:08:23	10319.40	10.74	7.61	188.05	15.75	36.05	9.75	94.80
Variance 0			0.08	0.02	1.59			-0.02	0.08
Variance 1			0.20	0.02	1.81			-0.16	0.27
Variance 2			-0.08	0.07	2.65			-0.00	-0.09

Notes

Pre-purged 3 liters. Insufficient time to get turbidity down.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-16 10:44:11

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 76.4 ft

Pump placement from TOC 71.4 ft

Well Information:

Well ID GWC-8Z
Well diameter 2 in
Well Total Depth 76.4 ft
Screen Length 10 ft
Depth to Water 36.33 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8260055 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 5.64 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:25:15	3119.83	14.71	6.85	116.41	3.89	36.78	8.58	62.39
Last 5	10:29:15	3359.82	14.68	6.89	122.25	4.65	36.78	8.57	61.99
Last 5	10:33:15	3599.80	14.67	6.93	122.21	4.05	36.78	8.55	61.53
Last 5	10:37:15	3839.79	14.69	6.98	127.15	4.95	36.79	8.46	60.59
Last 5	10:41:15	4079.77	14.68	7.01	131.24	3.84	36.80	8.51	59.97
Variance 0			-0.00	0.04	-0.04			-0.03	-0.45
Variance 1			0.01	0.05	4.94			-0.09	-0.94
Variance 2			-0.01	0.04	4.09			0.05	-0.62

Notes

Prepurged 1L

Grab Samples

GWC-8Z
Metals
GWC-8Z
TDS
GWC-8Z
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 14:55:31

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 73.2 ft

Pump placement from TOC 68.2 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 73.2 ft
Screen Length 10 ft
Depth to Water 32.00 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8117225 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.24 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:36:16	719.98	16.58	4.91	31.99	3.88	32.02	6.85	156.80
Last 5	14:40:16	959.96	16.49	4.86	31.88	2.53	32.02	6.85	165.34
Last 5	14:44:16	1199.95	16.46	4.84	31.85	1.59	32.02	6.87	171.29
Last 5	14:48:16	1439.93	16.47	4.83	31.76	1.33	32.02	6.81	175.72
Last 5	14:52:16	1679.92	16.56	4.82	31.75	1.29	32.02	6.88	178.90
Variance 0			-0.03	-0.02	-0.03			0.02	5.95
Variance 1			0.01	-0.01	-0.09			-0.06	4.43
Variance 2			0.10	-0.00	-0.00			0.06	3.18

Notes

Prepurged 2L

Grab Samples

GWC-9
Metals
GWC-9
TDS
GWC-9
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 12:29:11

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 71.4 ft

Pump placement from TOC 66.4 ft

Well Information:

Well ID GWC-10
Well diameter 2 in
Well Total Depth 71.4 ft
Screen Length 10 ft
Depth to Water 24.46 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.8036884 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.72 in
Total Volume Pumped 9.36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:09:27	3359.83	15.84	6.34	130.37	1.11	24.52	8.31	92.98
Last 5	12:13:27	3599.80	15.84	6.37	133.02	1.03	24.52	8.38	93.80
Last 5	12:17:27	3839.79	15.85	6.39	136.11	1.01	24.52	8.41	94.86
Last 5	12:21:27	4079.78	15.89	6.40	131.54	1.09	24.52	8.42	95.59
Last 5	12:25:27	4319.76	15.98	6.43	135.21	0.98	24.52	8.45	95.89
Variance 0			0.00	0.02	3.09			0.03	1.06
Variance 1			0.04	0.01	-4.57			0.01	0.74
Variance 2			0.10	0.03	3.67			0.04	0.29

Notes

Prepurged 2L

Grab Samples

GWC-10
Metals
GWC-10
TDS
GWC-10
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 13:33:28

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 100.2 ft

Pump placement from TOC 95.2 ft

Well Information:

Well ID GWC-10R
Well diameter 2 in
Well Total Depth 100.2 ft
Screen Length 10 ft
Depth to Water 24.53 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.932235 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:15:18	1439.93	16.33	7.37	245.56	0.69	24.56	6.75	84.51
Last 5	13:19:18	1679.92	16.33	7.41	244.49	0.93	23.56	7.08	84.04
Last 5	13:23:18	1919.91	16.31	7.44	243.76	0.73	24.56	7.36	83.42
Last 5	13:27:18	2159.89	16.38	7.47	242.58	0.58	24.56	7.59	83.16
Last 5	13:31:18	2399.88	16.34	7.49	242.43	0.30	24.56	7.79	82.84
Variance 0			-0.02	0.03	-0.73			0.28	-0.63
Variance 1			0.07	0.03	-1.18			0.24	-0.26
Variance 2			-0.04	0.02	-0.15			0.19	-0.32

Notes

Prepurged 1L

Grab Samples

GWC-10R
Metals
GWC-10R
TDS
GWC-10R
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 14:54:04

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 51.35 ft

Pump placement from TOC 42.35 ft

Well Information:

Well ID GWC-11
Well diameter 2 in
Well Total Depth 47.35 ft
Screen Length 10 ft
Depth to Water 15.31 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.7141968 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 2.73 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:38:49	540.02	17.63	6.38	85.04	0.75	15.35	4.30	117.15
Last 5	14:41:49	720.02	17.45	6.34	85.54	0.82	15.35	4.30	118.81
Last 5	14:44:49	900.02	17.32	6.31	87.27	0.81	15.35	4.25	120.64
Last 5	14:47:49	1080.02	17.36	6.31	89.07	0.81	15.35	4.24	121.72
Last 5	14:50:49	1260.41	17.48	6.30	89.91	0.80	15.35	4.22	123.12
Variance 0			-0.13	-0.03	1.74			-0.05	1.83
Variance 1			0.04	-0.01	1.80			-0.01	1.08
Variance 2			0.12	-0.01	0.83			-0.02	1.40

Notes

Prepurged 0.5 L
Well performed well

Grab Samples

GWC-11
Metals
GWC-11
TDS

GWC-11
Inorganics



Product Name: Low-Flow System

Date: 2020-03-12 16:06:28

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 87.20 ft

Pump placement from TOC 78.20 ft

Well Information:

Well ID GWC-11R
Well diameter 2 in
Well Total Depth 83.20 ft
Screen Length 10 ft
Depth to Water 15.24 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.8742105 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 3.51 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:51:01	900.02	18.39	7.54	282.23	2.60	15.27	6.15	168.99
Last 5	15:54:01	1080.02	18.33	7.57	282.32	3.21	15.27	6.17	170.32
Last 5	15:57:01	1260.02	18.30	7.58	282.27	3.08	15.27	6.17	171.50
Last 5	16:00:01	1440.02	18.25	7.60	282.08	3.15	15.27	6.14	172.32
Last 5	16:03:01	1620.02	18.30	7.60	282.02	3.01	15.27	6.14	172.97
Variance 0			-0.03	0.01	-0.05			-0.01	1.18
Variance 1			-0.05	0.01	-0.19			-0.02	0.82
Variance 2			0.04	0.01	-0.06			-0.00	0.65

Notes

Prepurged 0.5 L
Well performed adequately

Grab Samples

GWC-11R
Metals
GWC-11R
TDS

GWC-11R
Inorganics
DUP-2
Metals
DUP-2
TDS
DUP-2
Inorganics

Product Name: Low-Flow System

Date: 2020-03-12 16:23:06

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 54.2 ft

Pump placement from TOC 49.2 ft

Well Information:

Well ID GWC-12
Well diameter 2 in
Well Total Depth 54.2 ft
Screen Length 10 ft
Depth to Water 14.73 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.7269176 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 3.36 in
Total Volume Pumped 5.28 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:04:18	1679.92	18.28	6.13	105.11	6.76	15.03	0.30	34.71
Last 5	16:08:18	1919.90	18.30	6.15	104.68	6.81	15.01	0.43	31.07
Last 5	16:12:18	2159.89	18.38	6.15	104.15	4.85	15.01	0.46	28.87
Last 5	16:16:18	2399.88	18.30	6.16	105.30	4.12	15.01	0.44	25.97
Last 5	16:20:18	2639.86	18.34	6.17	106.28	3.59	15.01	0.40	23.37
Variance 0			0.08	0.00	-0.53			0.03	-2.20
Variance 1			-0.08	0.01	1.14			-0.02	-2.90
Variance 2			0.05	0.01	0.98			-0.04	-2.60

Notes

Prepurged 1L

Grab Samples

GWC-12
Metals
GWC-12
TDS
GWC-12
Inorganics

Product Name: Low-Flow System

Date: 2020-03-13 12:19:58

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 88.80 ft

Pump placement from TOC 79.80 ft

Well Information:

Well ID GWC-13
Well diameter 2 in
Well Total Depth 84.80 ft
Screen Length 10 ft
Depth to Water 24.01 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8813521 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.84 in
Total Volume Pumped 14.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:00:23	7681.32	17.43	7.25	244.45	5.40	24.08	5.26	136.68
Last 5	12:04:23	7921.32	17.47	7.26	244.02	4.74	24.08	5.24	137.43
Last 5	12:08:23	8161.32	17.51	7.26	243.75	4.91	24.08	5.24	138.09
Last 5	12:12:23	8401.32	17.50	7.26	243.32	4.74	24.08	5.24	139.26
Last 5	12:16:23	8641.32	17.54	7.25	243.64	4.56	24.08	5.26	140.18
Variance 0			0.04	0.00	-0.27			0.00	0.66
Variance 1			-0.02	0.00	-0.43			0.00	1.17
Variance 2			0.05	-0.01	0.32			0.02	0.92

Notes

Prepurged 0.5 L
Well took over two hours for turbidity to stabilize below 5 NTU

Grab Samples

GWC-13
Metals
GWC-13
TDS



Product Name: Low-Flow System

Date: 2020-03-16 13:20:33

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 108.53 ft

Pump placement from TOC 99.53 ft

Well Information:

Well ID GWC-13RZ
Well diameter 2 in
Well Total Depth 104.53 ft
Screen Length 10 ft
Depth to Water 54.21 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.9694154 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 483.84 in
Total Volume Pumped 27.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:59:59	10319.87	15.76	7.44	461.71	0.81	89.82	1.80	119.74
Last 5	13:03:59	10559.87	15.73	7.45	462.74	0.61	90.82	1.85	119.95
Last 5	13:07:59	10799.79	15.75	7.45	463.73	0.66	91.82	1.90	120.31
Last 5	13:11:59	11039.79	15.67	7.46	464.07	0.55	92.82	1.93	120.98
Last 5	13:15:59	11279.79	15.70	7.45	465.65	0.64	93.80	1.96	121.29
Variance 0			0.02	0.00	0.98			0.05	0.36
Variance 1			-0.09	0.00	0.34			0.03	0.67
Variance 2			0.03	-0.01	1.58			0.03	0.31

Notes

Prepurged 0.5 L
Head drop would not stabilize. Well pumped to top of screen.

Grab Samples

Report Created: 2020-03-17 13:09:44
 Site: Plant Bowen GWC-13RZ
 GPS:
 Log Created: 2020-03-17 13:08:06
 Number Readings: 11
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 457454
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 597519

Created	Baro (mm)	Temp (C)	RDO (mg/l)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (µS/cm)	Sp Cond (nS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm³)	TDS (ppt)	Depth (ft)	Pressure (ft)	Air Temp (F)
3/17/2020 13:08	751.2	16.92	9.18	96.2	7.66	131.2	406.1	0.48	0.2	2463	0.999	0	-0.26	-0.111	62.78
3/17/2020 13:08	751.1	16.87	9.2	96.4	7.65	131.2	404.9	0.48	0.2	2470	0.999	0	-0.26	-0.111	62.78
3/17/2020 13:08	751.1	16.83	9.25	96.7	7.65	131.2	405.3	0.48	0.2	2467	0.999	0	-0.26	-0.111	62.96
3/17/2020 13:08	751.1	16.79	9.27	96.8	7.64	131.1	405.6	0.48	0.2	2465	0.999	0	-0.28	-0.12	62.96
3/17/2020 13:08	751.1	16.77	9.29	97	7.64	131.2	406.1	0.48	0.2	2463	0.999	0	-0.26	-0.112	62.96
3/17/2020 13:08	751.1	16.75	9.32	97.2	7.63	131.2	406.4	0.48	0.2	2461	0.999	0	-0.27	-0.117	63.14
3/17/2020 13:09	751.1	16.75	9.34	97.4	7.63	131.3	406.7	0.48	0.2	2459	0.999	0	-0.26	-0.115	63.14
3/17/2020 13:09	751.1	16.76	9.36	97.6	7.63	131.6	407	0.48	0.2	2457	0.999	0	-0.24	-0.104	63.32
3/17/2020 13:09	751.1	16.77	9.36	97.7	7.62	131.8	407.3	0.48	0.2	2455	0.999	0	-0.26	-0.112	63.32
3/17/2020 13:09	751.1	16.79	9.37	97.8	7.62	132.1	407.5	0.48	0.2	2454	0.999	0	-0.25	-0.109	63.32
3/17/2020 13:09	751.1	16.82	9.38	97.9	7.62	132.2	407.7	0.48	0.2	2453	0.999	0	-0.26	-0.111	63.5

Product Name: Low-Flow System

Date: 2020-03-13 13:28:59

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 75.7 ft

Pump placement from TOC 70.7 ft

Well Information:

Well ID GWC-14Z
Well diameter 2 in
Well Total Depth 75.7 ft
Screen Length 10 ft
Depth to Water 23.61 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.8228811 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 24.12 in
Total Volume Pumped 3.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:15:50	719.98	17.76	6.01	121.30	3.51	26.41	4.48	81.41
Last 5	13:18:50	899.97	17.96	6.05	126.25	3.34	26.48	4.51	81.37
Last 5	13:21:50	1079.95	18.16	6.09	126.22	3.82	26.53	4.54	82.65
Last 5	13:24:50	1259.94	18.30	6.12	129.78	3.77	26.59	4.54	82.09
Last 5	13:27:50	1439.93	18.19	6.16	133.32	3.51	26.62	4.59	82.52
Variance 0			0.20	0.04	-0.03			0.03	1.28
Variance 1			0.13	0.04	3.55			0.00	-0.56
Variance 2			-0.11	0.03	3.54			0.05	0.43

Notes

Prepurged 3L

Grab Samples

GWC-14z
Metals

GWC-14z
TDS

GWC-14z
Inorganics

Product Name: Low-Flow System

Date: 2020-03-13 12:21:32

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 95.1 ft

Pump placement from TOC 90.1 ft

Well Information:

Well ID GWC-15R
Well diameter 2 in
Well Total Depth 95.1 ft
Screen Length 10 ft
Depth to Water 32.34 ft

Pumping Information:

Final Pumping Rate 135 mL/min
Total System Volume 0.9094715 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 14.03 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:02:43	5279.69	18.03	7.55	303.92	6.88	32.53	2.76	42.91
Last 5	12:06:43	5519.69	18.07	7.55	303.48	5.59	32.53	2.78	43.25
Last 5	12:10:43	5759.67	18.03	7.56	303.26	4.72	32.53	2.78	43.37
Last 5	12:14:43	5999.66	18.06	7.56	303.99	4.46	32.53	2.81	43.69
Last 5	12:18:43	6239.65	18.27	7.56	303.33	4.38	42.53	2.83	43.73
Variance 0			-0.04	0.01	-0.22			0.00	0.12
Variance 1			0.03	0.00	0.73			0.03	0.32
Variance 2			0.21	-0.00	-0.66			0.02	0.04

Notes

Prepurged 2L

Grab Samples

GWC-15R
Metals

GWC-15R
TDS

GWC-15R
Inorganics

Product Name: Low-Flow System

Date: 2020-03-13 09:54:09

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 74.5 ft

Pump placement from TOC 69.5 ft

Well Information:

Well ID GWC-15Z
Well diameter 2 in
Well Total Depth 74.5 ft
Screen Length 10 ft
Depth to Water 32.05 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.817525 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 6.72 in
Total Volume Pumped 2.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	09:34:36	240.01	16.83	7.61	198.89	0.77	32.51	6.47	90.06
Last 5	09:38:36	479.99	16.96	7.62	195.56	0.80	32.56	6.73	70.65
Last 5	09:42:36	719.98	16.97	7.63	193.96	0.55	32.61	6.86	64.78
Last 5	09:46:36	959.96	17.01	7.65	193.59	0.39	32.62	6.90	61.07
Last 5	09:50:36	1199.94	17.00	7.68	193.31	0.76	32.63	6.90	58.59
Variance 0			0.01	0.01	-1.60			0.13	-5.87
Variance 1			0.03	0.02	-0.37			0.04	-3.72
Variance 2			-0.00	0.03	-0.28			0.01	-2.47

Notes

Prepurged 1L

Grab Samples

GWC-15Z
Metals

GWC-15Z
TDS

GWC-15Z
Inorganics

DUP-3
Metals
DUP-3
TDS
DUP-3
Inorganics

Product Name: Low-Flow System

Date: 2020-03-04 16:03:51

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 98 ft

Pump placement from TOC 93 ft

Well Information:

Well ID GWC-16R
Well diameter 2 in
Well Total Depth 98.1 ft
Screen Length 10 ft
Depth to Water 74.63 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.9224155 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 15.96 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:44:04	2159.89	15.27	7.35	503.34	0.37	75.87	4.80	92.62
Last 5	15:48:04	2399.88	15.31	7.36	499.32	0.48	75.91	5.08	92.72
Last 5	15:52:04	2639.86	15.35	7.36	498.08	0.44	75.93	5.26	93.26
Last 5	15:56:04	2879.84	15.31	7.37	497.47	0.41	75.95	5.31	94.03
Last 5	16:00:04	3119.83	15.20	7.37	500.89	0.38	75.96	5.28	93.93
Variance 0			0.04	-0.00	-1.24			0.18	0.53
Variance 1			-0.05	0.01	-0.61			0.05	0.78
Variance 2			-0.10	0.00	3.42			-0.03	-0.10

Notes

Prepurged 1L

Grab Samples

GWC-16R
Metals

GWC-16R
TDS

GWC-16R
Inorganics

Product Name: Low-Flow System

Date: 2020-03-04 14:37:36

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 92 ft

Pump placement from TOC 87 ft

Well Information:

Well ID GWC-17R
Well diameter 2 in
Well Total Depth 92.9 ft
Screen Length 10 ft
Depth to Water 76.43 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.8956349 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 80.04 in
Total Volume Pumped 4.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:19:55	959.96	15.67	7.27	570.90	0.09	79.76	8.07	32.61
Last 5	14:23:55	1199.95	15.67	7.26	571.44	0.11	80.33	8.08	34.47
Last 5	14:27:55	1439.93	16.04	7.25	573.42	0.28	81.22	8.07	35.31
Last 5	14:31:55	1679.92	16.17	7.26	571.00	0.14	82.11	8.05	36.74
Last 5	14:35:55	1919.91	16.16	7.26	570.73	0.21	83.10	8.02	38.84
Variance 0			0.37	-0.00	1.98			-0.02	0.84
Variance 1			0.13	0.00	-2.42			-0.02	1.43
Variance 2			-0.01	-0.00	-0.27			-0.03	2.10

Notes

Prepurged 1L
Complete evacuation, will collect sample on 3/5/20

Grab Samples

Report Created: 2020-03-05 12:44:42
 Site: Plant Bowen GWC-17R
 GPS:
 Log Created: 2020-03-05 12:43:09
 Number Readings: 11
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 457454
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 597519

Created	Baro (mm)	Temp (C)	RDO (mg/l)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (µS/cm)	Sp Cond (nS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm³)	TDS (ppt)	Depth (ft)	Pressure (ft)	Air Temp (F)
3/5/2020 12:43	743.2	12.79	9.04	87.5	7.36	97.9	455.9	0.59	0.3	2193	1	0	-0.21	-0.091	48.56
3/5/2020 12:43	743.2	12.86	9.04	87.5	7.35	96.8	455.9	0.59	0.3	2193	1	0	-0.21	-0.091	48.56
3/5/2020 12:43	743.2	12.95	8.96	87	7.34	95.5	455.6	0.59	0.3	2195	1	0	-0.21	-0.09	48.56
3/5/2020 12:43	743.3	13.04	8.9	86.5	7.34	94.3	455.5	0.59	0.3	2196	1	0	-0.23	-0.101	48.56
3/5/2020 12:43	743.2	13.12	8.82	85.9	7.33	93	455.4	0.59	0.3	2196	1	0	-0.21	-0.09	48.74
3/5/2020 12:43	743.3	13.18	8.78	85.6	7.32	91.8	455.5	0.59	0.3	2195	1	0	-0.23	-0.098	48.74
3/5/2020 12:44	743.2	13.22	8.72	85.2	7.32	90.6	455.3	0.59	0.3	2196	1	0	-0.19	-0.084	48.74
3/5/2020 12:44	743.2	13.27	8.68	84.9	7.31	89.5	455.2	0.59	0.3	2197	1	0	-0.2	-0.089	48.92
3/5/2020 12:44	743.3	13.31	8.64	84.6	7.31	88.6	455.2	0.59	0.3	2197	1	0	-0.2	-0.088	48.92
3/5/2020 12:44	743.3	13.35	8.61	84.3	7.3	87.6	455.1	0.59	0.3	2197	1	0	-0.21	-0.091	48.92
3/5/2020 12:44	743.3	13.36	8.58	84.2	7.3	86.8	455	0.59	0.3	2198	1	0	-0.19	-0.083	48.92

Product Name: Low-Flow System

Date: 2020-03-06 12:10:11

Project Information:

Operator Name Veronica Fay
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder pump
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 84.3 ft

Pump placement from TOC 79 ft

Well Information:

Well ID GWC-18
Well diameter 2 in
Well Total Depth 80.3 ft
Screen Length 10 ft
Depth to Water 65.95 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5662666 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:51:42	6239.65	9.88	7.02	211.28	5.75	65.93	7.96	64.50
Last 5	11:55:42	6479.63	10.02	7.02	210.88	5.18	65.93	7.96	65.84
Last 5	11:59:42	6719.61	10.02	7.01	210.00	4.74	65.93	7.95	67.29
Last 5	12:03:42	6959.60	9.97	7.01	209.07	3.94	65.93	7.92	68.89
Last 5	12:07:42	7199.59	9.94	7.01	208.92	3.76	65.93	7.96	70.94
Variance 0			0.00	-0.00	-0.88			-0.01	1.45
Variance 1			-0.05	-0.00	-0.93			-0.03	1.60
Variance 2			-0.03	-0.00	-0.14			0.03	2.05

Notes

Prepurged 3L
Well performed well. No drawdown

Grab Samples

GWC-18
Metals
GWC-18
TDS

GWC-18
Inorganics



Product Name: Low-Flow System

Date: 2020-03-05 15:33:28

Project Information:

Operator Name Veronica Fay
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated pump
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 144 ft

Pump placement from TOC 135.1 ft

Well Information:

Well ID GWC-18R
Well diameter 2 in
Well Total Depth 140.1 ft
Screen Length 10 ft
Depth to Water 66.81 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.127733 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	15:13:59	3599.80	8.41	7.78	268.97	5.23	66.63	7.93	50.45
Last 5	15:17:59	3839.79	8.41	7.78	268.94	5.09	66.61	7.95	50.65
Last 5	15:21:59	4079.77	8.43	7.77	268.79	3.81	66.61	7.93	50.82
Last 5	15:25:59	4319.76	8.46	7.77	268.98	3.79	66.60	7.95	50.80
Last 5	15:29:59	4559.75	8.51	7.77	269.28	3.50	66.60	7.94	50.74
Variance 0			0.02	-0.00	-0.15			-0.02	0.18
Variance 1			0.03	0.00	0.19			0.02	-0.03
Variance 2			0.05	0.00	0.30			-0.00	-0.06

Notes

Prepurged 6.5L in attempt to lower turbidity
Well started with high turbidity. Groundwater had slight recharge

Grab Samples

GWC-18R
Metals
GWC-18R
TDS

GWC-18R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-04 16:16:00

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 150.6 ft

Pump placement from TOC 141.6 ft

Well Information:

Well ID GWC-19R
Well diameter 2 in
Well Total Depth 146.6 ft
Screen Length 10 ft
Depth to Water 70.44 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 1.157192 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 1.08 in
Total Volume Pumped 21.16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:57:42	11164.75	15.98	7.69	290.96	8.87	70.53	6.80	76.78
Last 5	16:00:42	11344.75	15.89	7.69	291.06	8.56	70.52	6.79	77.19
Last 5	16:03:42	11524.75	15.89	7.69	291.25	8.40	70.52	6.79	77.81
Last 5	16:06:42	11704.75	15.89	7.69	291.30	8.32	70.53	6.80	77.98
Last 5	16:09:42	11884.75	15.93	7.68	291.25	7.51	70.53	6.80	78.35
Variance 0			-0.00	-0.00	0.19			0.01	0.62
Variance 1			-0.00	-0.00	0.05			0.01	0.17
Variance 2			0.04	-0.00	-0.05			0.00	0.37

Notes

Prepurged 0.5 L

At 16:06, called Pete Robinson. Well had been stable with exception of turbidity for the last 3 hours. Turbidity was below 10 but above 5 NTU. At 16:10, Pete Robinson called and said to sample. Changed pump rate to 100 mL/min at time 2700 (13:36).

Grab Samples
GWC-19R
Metals
GWC-19R
TDS
GWC-19R
Inorganics

Product Name: Low-Flow System

Date: 2020-03-05 14:28:17

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 91.5 ft

Pump placement from TOC 82.5 ft

Well Information:

Well ID GWC-20R
Well diameter 2 in
Well Total Depth 87.5 ft
Screen Length 10 ft
Depth to Water 64.78 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8934032 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:11:48	1440.02	15.50	7.56	319.18	0.81	64.91	5.06	36.60
Last 5	14:14:48	1620.02	15.48	7.58	321.64	0.67	64.91	5.30	37.32
Last 5	14:17:48	1800.02	15.55	7.59	323.96	0.57	64.90	5.51	37.68
Last 5	14:20:48	1980.02	15.53	7.60	326.86	0.54	64.90	5.66	38.43
Last 5	14:23:48	2160.06	15.52	7.60	329.93	0.48	64.89	5.80	39.09
Variance 0			0.06	0.01	2.32			0.21	0.36
Variance 1			-0.02	0.01	2.90			0.15	0.76
Variance 2			-0.01	0.01	3.07			0.14	0.66

Notes

Prepurged 0.5 L
Well performed adequately

Grab Samples

GWC-20R
Metals
GWC-20R
TDS

GWC-20R
Inorganics
DUP-3
Metals
DUP-3
TDS
DUP-3
Inorganics

Product Name: Low-Flow System

Date: 2020-03-03 16:28:53

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 94.6 ft

Pump placement from TOC 85.6 ft

Well Information:

Well ID GWC-21R
Well diameter 2 in
Well Total Depth 90.6 ft
Screen Length 10 ft
Depth to Water 65.11 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.9072399 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 66.36 in
Total Volume Pumped 9.04 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:10:31	3964.70	17.10	7.08	559.48	1.38	70.34	3.72	49.73
Last 5	16:13:31	4144.70	17.10	7.09	560.65	1.22	70.41	3.92	51.04
Last 5	16:16:31	4324.69	17.10	7.09	561.90	1.13	70.49	4.10	52.05
Last 5	16:19:31	4504.70	17.05	7.10	563.63	0.98	70.55	4.27	53.40
Last 5	16:22:31	4684.70	17.01	7.10	565.42	0.89	70.64	4.41	53.98
Variance 0			0.00	0.01	1.25			0.18	1.02
Variance 1			-0.05	0.01	1.73			0.17	1.35
Variance 2			-0.04	0.00	1.79			0.14	0.58

Notes

Prepurged 1.5 L

Well took a while to stabilize DO. At time 900 (15:20), dropped pump rate to 110 mL/min. Water had small amount of debris and odor.

Grab Samples

GWC-21R
Metals
GWC-21R
TDS

GWC-21R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-03 14:05:27

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 123.6 ft

Pump placement from TOC 114.6 ft

Well Information:

Well ID GWC-22R
Well diameter 2 in
Well Total Depth 119.6 ft
Screen Length 10 ft
Depth to Water 57.26 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.036679 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 5.85 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	13:50:04	1620.02	16.70	7.11	341.89	2.59	57.30	3.61	40.40
Last 5	13:53:04	1800.02	16.67	7.12	340.06	2.37	57.31	3.81	39.58
Last 5	13:56:04	1980.02	16.65	7.14	338.94	2.45	57.30	3.94	39.45
Last 5	13:59:04	2160.02	16.70	7.15	338.69	2.07	57.30	4.03	39.23
Last 5	14:02:04	2340.02	16.76	7.15	338.68	1.94	57.30	4.05	39.56
Variance 0			-0.02	0.02	-1.11			0.13	-0.13
Variance 1			0.05	0.01	-0.25			0.09	-0.22
Variance 2			0.07	0.00	-0.02			0.02	0.33

Notes

Prepurged 1 L
Well performed adequately

Grab Samples

GWC-22R
Metals
GWC-22R
TDS

GWC-22R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-04 14:41:37

Project Information:

Operator Name Veronica Fay
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder pump
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 53 ft

Pump placement from TOC 48 ft

Well Information:

Well ID GWC-23R
Well diameter 2 in
Well Total Depth 49.60 ft
Screen Length 10 ft
Depth to Water 33.74 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.4265614 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 74.04 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:20:59	1679.92	9.69	7.25	573.60	6.53	38.09	6.13	74.33
Last 5	14:24:59	1919.90	9.74	7.25	572.81	6.10	38.55	6.22	74.62
Last 5	14:28:59	2159.89	9.70	7.25	573.01	5.59	39.00	6.34	74.54
Last 5	14:32:59	2399.88	9.72	7.26	573.09	4.81	39.43	6.39	74.56
Last 5	14:36:59	2639.86	9.79	7.26	572.73	4.27	49.91	6.44	74.50
Variance 0			-0.03	0.01	0.20			0.12	-0.08
Variance 1			0.01	0.00	0.08			0.05	0.02
Variance 2			0.07	0.00	-0.35			0.05	-0.05

Notes

Prepurged 1L

Well has drawdown issue. Tried to stabilize drawdown by pumping at 110ml/min. Groundwater level dropped below top of screen at 1438.

Performing complete evacuation.

Report Created: 2020-03-05 10:10:03
 Site: Plant Bowen **GWC-23R**
 GPS:
 Log Created: 2020-03-05 10:08:27
 Number Readings: 11
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 637617
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 588863

Created	Baro (mba)	Temp (C)	RDO (mg/l)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (µS/cm)	Sp Cond (µS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm³)	TDS (ppt)	Depth (ft)	Pressure (ft)	Air Temp (C)
3/5/2020 10:08	993.7	7.03	10.15	85.7	7.25	159.1	366.7	557.3	0.3	2727	1	0	0.04	0.015	11.1
3/5/2020 10:08	993.7	7.03	10.15	85.7	7.25	159.1	366.7	557.3	0.3	2727	1	0	0.04	0.015	11.1
3/5/2020 10:08	993.6	7.01	10.08	84.9	7.25	157.1	365.9	557.4	0.3	2733	1	0	0.03	0.014	11.1
3/5/2020 10:08	993.7	7.04	10.02	84.4	7.25	155.3	365.5	556.8	0.3	2736	1	0	0.03	0.012	11.1
3/5/2020 10:08	993.6	7.11	9.98	84.1	7.25	153.6	365.3	555.7	0.3	2737	1	0	0.01	0.003	11.1
3/5/2020 10:09	993.6	7.16	9.94	83.9	7.25	152	365.2	554.7	0.3	2738	1	0	0.01	0.004	11.2
3/5/2020 10:09	993.6	7.21	9.9	83.7	7.25	150.5	365	553.7	0.3	2739	1	0	0.04	0.016	11.2
3/5/2020 10:09	993.6	7.25	9.86	83.4	7.25	149.1	365	552.9	0.3	2740	1	0	0.03	0.012	11.2
3/5/2020 10:09	993.5	7.31	9.83	83.3	7.25	147.8	365.1	552.1	0.3	2739	1	0	0.02	0.008	11.2
3/5/2020 10:09	993.6	7.31	9.81	83.2	7.24	146.6	365.1	551.5	0.3	2739	1	0	0.03	0.015	11.2
3/5/2020 10:09	993.6	7.36	9.76	82.9	7.24	145.4	365.1	550.8	0.3	2739	1	0	0.03	0.013	11.2

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-03 12:11:21

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 44.1 ft

Pump placement from TOC 35.1 ft

Well Information:

Well ID GWC-24R
Well diameter 2 in
Well Total Depth 40.1 ft
Screen Length 10 ft
Depth to Water 18.27 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.681837 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 9.12 in
Total Volume Pumped 3.91 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	11:54:47	1081.02	16.83	7.54	285.12	0.55	19.04	3.58	39.80
Last 5	11:57:48	1261.92	16.84	7.54	284.93	0.71	19.03	3.59	40.51
Last 5	12:00:50	1443.99	16.83	7.54	285.28	0.83	19.03	3.59	40.81
Last 5	12:03:50	1623.94	16.79	7.55	285.00	0.79	19.03	3.67	41.16
Last 5	12:06:50	1803.92	16.79	7.55	285.88	0.73	19.03	3.49	41.67
Variance 0			-0.01	0.00	0.35			0.00	0.29
Variance 1			-0.04	0.00	-0.28			0.08	0.35
Variance 2			0.00	-0.00	0.88			-0.18	0.52

Notes

Prepurged 3 L
Tiny debris in water (probably ladybug)

Grab Samples

GWC-24R
Metals
GWC-24R
TDS

GWC-24R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-03 10:18:32

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 104.00 ft

Pump placement from TOC 95.0 ft

Well Information:

Well ID GWC-25R
Well diameter 2 in
Well Total Depth 100.00 ft
Screen Length 10 ft
Depth to Water 17.42 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.949196 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:02:47	180.08	15.84	7.46	319.82	0.76	17.42	5.67	46.48
Last 5	10:05:47	360.02	15.87	7.51	318.76	0.78	17.42	5.76	43.64
Last 5	10:08:47	540.02	15.86	7.54	318.82	0.59	17.42	5.85	42.38
Last 5	10:11:47	720.02	15.86	7.56	318.86	0.55	17.42	5.86	41.87
Last 5	10:14:49	902.02	15.88	7.56	319.24	0.53	17.42	5.91	41.85
Variance 0			-0.01	0.03	0.06			0.09	-1.26
Variance 1			0.00	0.02	0.04			0.01	-0.50
Variance 2			0.02	0.01	0.38			0.05	-0.03

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWC-25R
Metals
GWC-25R
TDS

GWC-25R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-02 11:22:27

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 85.8 ft

Pump placement from TOC 76.8 ft

Well Information:

Well ID GWA-36
Well diameter 2 in
Well Total Depth 81.8 ft
Screen Length 10 ft
Depth to Water 24.42 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.8679616 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0 in
Total Volume Pumped 2.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:00:54	240.17	15.35	6.69	132.66	1.91	24.42	5.57	32.15
Last 5	11:04:54	480.05	15.21	6.63	131.26	2.01	24.42	5.57	30.79
Last 5	11:08:54	720.02	15.09	6.60	131.29	1.69	24.42	5.64	30.74
Last 5	11:12:54	960.02	15.04	6.58	130.79	1.48	24.42	5.62	31.15
Last 5	11:16:54	1200.02	15.17	6.58	131.04	1.18	24.42	5.63	30.55
Variance 0			-0.13	-0.04	0.03			0.06	-0.06
Variance 1			-0.05	-0.01	-0.51			-0.02	0.42
Variance 2			0.13	-0.01	0.26			0.02	-0.61

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-36
Metals
GWA-36
TDS

GWA-36
Inorganics



Product Name: Low-Flow System

Date: 2020-03-02 11:19:09

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 89 ft

Pump placement from TOC 94 ft

Well Information:

Well ID GWA-36R
Well diameter 2 in
Well Total Depth 89.6 ft
Screen Length 10 ft
Depth to Water 24.06 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.8822446 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 3.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:00:37	240.02	15.75	7.29	303.53	6.62	24.09	5.04	58.99
Last 5	11:04:37	479.99	15.57	7.28	307.07	4.92	24.09	5.05	56.69
Last 5	11:08:37	719.98	15.57	7.26	309.66	4.13	24.09	5.05	55.60
Last 5	11:12:37	959.96	15.53	7.26	311.21	4.32	24.09	5.03	54.88
Last 5	11:16:37	1199.95	15.69	7.24	312.59	3.59	24.09	5.05	54.49
Variance 0			-0.00	-0.02	2.58			0.00	-1.09
Variance 1			-0.04	-0.00	1.56			-0.01	-0.72
Variance 2			0.16	-0.02	1.37			0.01	-0.39

Notes

Prepurged 2 liters

Grab Samples

GWA-36R
Metals

GWA-36R
TDS

GWA-36
Inorganics

Product Name: Low-Flow System

Date: 2020-03-02 14:32:05

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 111.5 ft

Pump placement from TOC 102.5 ft

Well Information:

Well ID GWA-37
Well diameter 2 in
Well Total Depth 107.5 ft
Screen Length 10 ft
Depth to Water 44.00 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.9826716 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 157.32 in
Total Volume Pumped 12.35 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:12:33	6150.49	15.36	5.52	21.42	0.19	56.51	4.20	39.04
Last 5	14:15:33	6330.49	15.24	5.52	21.43	0.19	56.65	4.19	39.31
Last 5	14:18:33	6510.49	15.30	5.52	21.52	0.15	56.81	4.16	39.60
Last 5	14:21:33	6690.49	15.27	5.54	21.59	0.14	56.95	4.14	39.04
Last 5	14:24:33	6870.49	15.41	5.53	21.63	0.11	57.11	4.14	39.80
Variance 0			0.06	0.00	0.09			-0.03	0.29
Variance 1			-0.03	0.02	0.08			-0.02	-0.56
Variance 2			0.14	-0.01	0.04			-0.00	0.76

Notes

Prepurged 1 L
Well took over two hours to stabilize head drop. Changed pumping rate to 100 mL/min at time 1800.

Grab Samples

GWA-37
Metals
GWA-37
TDS

GWA-37
Inorganics



Product Name: Low-Flow System

Date: 2020-03-02 13:22:23

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 74 ft

Pump placement from TOC 69 ft

Well Information:

Well ID GWA-38
Well diameter 2 in
Well Total Depth 69.4 ft
Screen Length 10 ft
Depth to Water 49.04 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.8152933 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 121 in
Total Volume Pumped 3.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	13:03:55	719.98	16.29	5.59	41.17	0.62	49.88	7.92	88.35
Last 5	13:07:55	959.96	16.25	5.53	41.18	0.60	49.97	7.92	88.50
Last 5	13:11:55	1199.95	16.30	5.51	40.74	0.58	50.06	7.92	88.27
Last 5	13:15:55	1439.93	16.29	5.50	40.25	0.63	50.10	7.94	87.89
Last 5	13:19:55	1679.92	16.23	5.49	39.70	0.58	50.17	7.95	88.18
Variance 0			0.05	-0.02	-0.44			0.00	-0.23
Variance 1			-0.01	-0.01	-0.49			0.01	-0.38
Variance 2			-0.06	-0.01	-0.55			0.02	0.28

Notes

Prepurged 2 liters

Grab Samples

GWA-38
Metals
GWA-38
TDS
GWA-38
Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 14:02:21

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name February 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 141 ft

Pump placement from TOC 135.07 ft

Well Information:

Well ID GWA-39RZ
Well diameter 2 in
Well Total Depth 140.07 ft
Screen Length 10 ft
Depth to Water 47.29 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.109343 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 229.92 in
Total Volume Pumped 21.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	13:42:12	11766.32	10.36	7.70	284.40	0.55	66.80	2.70	3.86
Last 5	13:46:15	12009.30	10.32	7.69	283.84	0.56	66.98	2.70	4.41
Last 5	13:50:15	12249.29	10.37	7.69	283.69	0.48	67.16	2.73	4.97
Last 5	13:54:15	12489.27	10.35	7.68	283.21	0.43	66.30	2.76	5.57
Last 5	13:58:15	12729.26	10.30	7.68	282.67	0.49	66.45	2.79	6.14
Variance 0			0.05	-0.01	-0.16			0.03	0.56
Variance 1			-0.02	-0.00	-0.48			0.03	0.61
Variance 2			-0.05	-0.00	-0.54			0.03	0.57

Notes

Pre-purged 2 liters

Grab Samples

GWA-39RZ

Metals

GWA-39RZ

TDS

GWA-39RZ

Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 15:42:44

Project Information:

Operator Name Kevin Stephenson
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 118 ft

Pump placement from TOC 112.50 ft

Well Information:

Well ID GWA-39Z
Well diameter 2 in
Well Total Depth 117.50 ft
Screen Length 10 ft
Depth to Water 50.65 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 1.006684 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 2.52 in
Total Volume Pumped 5.72 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 1000%
Last 5	15:20:58	1679.92	10.44	5.95	35.84	2.33	50.86	9.66	65.94
Last 5	15:24:58	1919.91	10.40	5.92	36.08	2.49	50.86	9.71	69.12
Last 5	15:28:58	2159.89	10.35	5.90	36.44	2.17	50.86	9.73	71.72
Last 5	15:32:59	2400.88	10.40	5.90	36.88	1.77	50.86	9.75	74.11
Last 5	15:36:59	2640.86	10.42	5.90	37.42	1.80	50.86	9.74	76.09
Variance 0			-0.04	-0.02	0.36			0.02	2.60
Variance 1			0.05	-0.00	0.44			0.02	2.39
Variance 2			0.02	-0.00	0.54			-0.02	1.97

Notes

Pre-purged 1 liter.

Grab Samples

GWA-39Z

Metals

GWA-39Z

TDS

GWA-39Z

Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 12:57:08

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 158.80 ft

Pump placement from TOC 149.80 ft

Well Information:

Well ID GWA-40
Well diameter 2 in
Well Total Depth 154.80 ft
Screen Length 10 ft
Depth to Water 56.21 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 1.193792 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 6.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:41:17	2165.52	17.93	7.46	233.68	1.10	56.25	7.08	82.56
Last 5	12:44:17	2345.52	18.08	7.46	235.08	1.12	56.25	7.09	84.68
Last 5	12:47:17	2525.52	18.00	7.47	236.27	1.15	56.25	7.11	85.91
Last 5	12:50:17	2705.52	18.08	7.49	236.51	1.13	56.25	7.19	87.64
Last 5	12:53:17	2885.52	18.26	7.50	237.83	0.99	56.25	7.15	87.67
Variance 0			-0.08	0.02	1.19			0.02	1.23
Variance 1			0.08	0.01	0.25			0.08	1.73
Variance 2			0.18	0.01	1.32			-0.04	0.03

Notes

Prepurged 0.5 L
Well performed adequately

Grab Samples

GWA-40
Metals
GWA-40
TDS

GWA-40
Inorganics



Product Name: Low-Flow System

Date: 2020-03-06 11:02:45

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 106.55 ft

Pump placement from TOC 97.55 ft

Well Information:

Well ID GWA-41
Well diameter 2 in
Well Total Depth 102.55 ft
Screen Length 10 ft
Depth to Water 44.77 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.9605778 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 1.08 in
Total Volume Pumped 2.73 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:46:44	540.02	16.00	6.81	221.22	4.99	44.86	5.37	59.05
Last 5	10:49:44	720.02	16.02	6.83	220.93	5.41	44.86	5.33	57.19
Last 5	10:52:45	900.39	16.06	6.83	219.90	4.99	44.86	5.32	57.11
Last 5	10:55:45	1080.39	16.11	6.83	219.90	4.45	44.86	5.40	58.05
Last 5	10:58:45	1260.39	16.26	6.82	220.50	4.14	44.86	5.52	58.97
Variance 0			0.04	0.00	-1.03			-0.01	-0.08
Variance 1			0.05	-0.00	-0.00			0.09	0.94
Variance 2			0.14	-0.00	0.60			0.12	0.92

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-41
Metals
GWA-41
TDS

GWA-41
Inorganics



Product Name: Low-Flow System

Date: 2020-03-09 10:57:21

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 133.80 ft

Pump placement from TOC 124.80 ft

Well Information:

Well ID GWA-41R
Well diameter 2 in
Well Total Depth 129.80 ft
Screen Length 10 ft
Depth to Water 59.13 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 1.082206 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 2.16 in
Total Volume Pumped 2.97 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:42:11	900.02	16.16	6.75	206.10	1.52	59.32	3.70	76.29
Last 5	10:45:11	1080.02	16.20	6.72	205.07	1.51	59.31	3.63	76.64
Last 5	10:48:11	1260.02	16.15	6.71	204.37	1.57	59.31	3.53	76.94
Last 5	10:51:12	1441.02	16.36	6.70	203.87	1.48	59.31	3.44	77.42
Last 5	10:54:12	1621.02	16.56	6.70	203.31	1.47	59.31	3.39	78.03
Variance 0			-0.05	-0.01	-0.70			-0.09	0.30
Variance 1			0.21	-0.01	-0.49			-0.09	0.48
Variance 2			0.20	-0.00	-0.57			-0.05	0.61

Notes

Prepurged 0.5 L
Well performed well

Grab Samples

GWA-41R
Metals
GWA-41R
TDS

GWA-41R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-06 12:20:46

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 88.4 ft

Pump placement from TOC 79.4 ft

Well Information:

Well ID GWA-42
Well diameter 2 in
Well Total Depth 84.4 ft
Screen Length 10 ft
Depth to Water 64.70 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.8795667 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 2.52 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	12:05:18	360.02	16.33	7.31	279.39	2.87	64.75	3.91	43.59
Last 5	12:08:18	540.02	16.34	7.36	280.09	3.35	64.74	3.86	42.77
Last 5	12:11:18	720.02	16.34	7.39	279.46	3.14	64.74	3.82	42.87
Last 5	12:14:18	900.02	16.34	7.40	279.33	2.80	64.74	3.81	42.61
Last 5	12:17:18	1080.02	16.28	7.42	277.80	2.47	64.73	3.81	42.77
Variance 0			-0.01	0.03	-0.63			-0.04	0.10
Variance 1			0.00	0.02	-0.14			-0.01	-0.27
Variance 2			-0.06	0.01	-1.52			-0.00	0.17

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-42
Metals
GWA-42
TDS

GWA-42
Inorganics
DUP-4
Metals
DUP-4
TDS
DUP-4
Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 14:11:57

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 96.55 ft

Pump placement from TOC 87.55 ft

Well Information:

Well ID GWA-43
Well diameter 2 in
Well Total Depth 92.55 ft
Screen Length 10 ft
Depth to Water 40.75 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.9159435 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 2.52 in
Total Volume Pumped 2.94 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	13:56:38	540.09	17.01	5.62	24.37	2.25	40.69	7.65	87.40
Last 5	13:59:38	720.05	16.93	5.56	24.04	2.20	40.69	7.65	89.20
Last 5	14:02:38	900.02	16.86	5.53	24.06	2.16	40.69	7.65	90.90
Last 5	14:05:38	1080.02	16.83	5.52	24.15	1.93	40.69	7.65	92.39
Last 5	14:08:40	1262.02	16.79	5.50	24.03	1.92	40.69	7.69	94.07
Variance 0			-0.07	-0.03	0.02			0.00	1.70
Variance 1			-0.03	-0.01	0.09			-0.00	1.49
Variance 2			-0.04	-0.02	-0.12			0.03	1.68

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-43
Metals
GWA-43
TDS

GWA-43
Inorganics



Product Name: Low-Flow System

Date: 2020-03-09 15:37:11

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 116.82 ft

Pump placement from TOC 107.82 ft

Well Information:

Well ID GWA-43R
Well diameter 2 in
Well Total Depth 112.82 ft
Screen Length 10 ft
Depth to Water 41.10 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 1.006417 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.6 in
Total Volume Pumped 6.84 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	15:22:00	2701.02	16.65	7.72	261.23	3.19	41.14	6.23	107.17
Last 5	15:25:00	2881.02	16.52	7.73	261.97	3.31	41.15	6.23	107.75
Last 5	15:28:00	3061.02	16.47	7.72	261.70	3.58	41.15	6.35	109.03
Last 5	15:31:00	3241.02	16.49	7.72	261.64	3.45	41.15	6.35	109.62
Last 5	15:34:00	3421.49	16.51	7.73	261.12	3.30	41.15	6.29	110.22
Variance 0			-0.05	-0.01	-0.27			0.12	1.28
Variance 1			0.02	0.00	-0.06			-0.00	0.59
Variance 2			0.02	0.01	-0.52			-0.06	0.60

Notes

Prepurged 0.5 L
Well performed adequately

Grab Samples

GWA-43R
Metals
GWA-43R
TDS

GWA-43R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-10 14:45:32

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 88.8 ft

Pump placement from TOC 83.8 ft

Well Information:

Well ID GWC-44
Well diameter 2 in
Well Total Depth 88.8 ft
Screen Length 10 ft
Depth to Water 40.09 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8813521 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 6.12 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:27:13	479.99	17.54	4.50	145.90	0.99	40.46	3.49	142.30
Last 5	14:31:13	719.98	17.54	4.46	145.47	0.44	40.51	3.52	150.13
Last 5	14:35:13	959.96	17.49	4.45	144.96	0.44	40.53	3.51	154.89
Last 5	14:39:13	1199.95	17.46	4.44	144.89	0.20	40.56	3.53	157.84
Last 5	14:43:13	1439.93	17.46	4.44	144.93	0.12	40.60	3.52	159.24
Variance 0			-0.05	-0.01	-0.50			-0.00	4.76
Variance 1			-0.03	-0.01	-0.07			0.02	2.95
Variance 2			0.01	-0.01	0.04			-0.01	1.39

Notes

Prepurged 2L

Grab Samples

GWC-44
Metals
GWC-44
TDS
GWC-44
Inorganics

Product Name: Low-Flow System

Date: 2020-03-10 14:03:47

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 71.43 ft

Pump placement from TOC 62.43 ft

Well Information:

Well ID GWC-45
Well diameter 2 in
Well Total Depth 67.43 ft
Screen Length 10 ft
Depth to Water 32.27 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8038223 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 34.32 in
Total Volume Pumped 3.61 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:47:08	1440.80	18.08	4.99	23.50	0.89	34.60	5.95	59.91
Last 5	13:50:08	1620.80	17.83	4.98	23.70	0.91	34.70	5.96	60.71
Last 5	13:53:08	1800.80	17.72	4.99	23.55	1.08	34.95	5.97	61.39
Last 5	13:56:09	1981.80	17.70	4.99	23.74	1.07	35.03	5.95	62.61
Last 5	13:59:15	2167.80	17.66	4.98	23.48	1.00	35.13	5.94	64.36
Variance 0			-0.11	0.00	-0.16			0.01	0.68
Variance 1			-0.02	0.00	0.19			-0.02	1.23
Variance 2			-0.04	-0.01	-0.25			-0.01	1.74

Notes

Prepurged 1 L

Grab Samples

GWC-45
Metals
GWC-45
TDS
GWC-45
Inorganics

Product Name: Low-Flow System

Date: 2020-03-10 15:04:23

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 132.10 ft

Pump placement from TOC 123.10 ft

Well Information:

Well ID GWC-45R
Well diameter 2 in
Well Total Depth 128.10 ft
Screen Length 10 ft
Depth to Water 41.97 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 1.074618 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 2.94 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:48:35	540.02	17.48	7.00	365.25	0.40	42.05	4.05	88.66
Last 5	14:51:35	720.02	17.53	7.02	365.93	0.38	42.05	4.17	91.90
Last 5	14:54:35	900.02	17.59	7.03	365.92	0.40	42.05	4.18	94.28
Last 5	14:57:35	1080.02	17.83	7.05	366.10	0.40	42.05	4.18	96.29
Last 5	15:00:35	1260.03	17.83	7.05	365.36	0.40	42.05	4.21	98.70
Variance 0			0.06	0.01	-0.01			0.02	2.38
Variance 1			0.24	0.01	0.18			0.00	2.01
Variance 2			-0.00	0.01	-0.74			0.02	2.41

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWC-45R
Metals
GWC-45R
TDS

GWC-45R
Inorganics
DUP-2
Metals
DUP-2
TDS
DUP-2
Inorganics

Product Name: Low-Flow System

Date: 2020-03-10 13:37:58

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 58.8 ft

Pump placement from TOC 53.8 ft

Well Information:

Well ID GWC-46R
Well diameter 2 in
Well Total Depth 58.8 ft
Screen Length 10 ft
Depth to Water 29.20 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.7474492 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 11.28 in
Total Volume Pumped 2.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:19:14	479.99	16.71	7.51	455.53	0.30	30.01	6.99	46.07
Last 5	13:23:14	719.98	16.74	7.48	456.88	1.00	30.08	7.02	44.48
Last 5	13:27:14	959.96	16.77	7.47	457.57	0.16	30.11	7.04	43.06
Last 5	13:31:14	1199.95	16.87	7.45	458.35	0.18	30.13	7.07	41.81
Last 5	13:35:14	1439.93	17.45	7.44	458.85	0.13	30.14	7.06	41.00
Variance 0			0.03	-0.02	0.69			0.01	-1.43
Variance 1			0.10	-0.01	0.78			0.03	-1.24
Variance 2			0.58	-0.01	0.50			-0.00	-0.81

Notes

Prepurged 1L

Grab Samples

GWC-46R

Metals

GWC-46R

TDS

GWC-46R

Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 15:35:43

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 67.33 ft

Pump placement from TOC 62.33 ft

Well Information:

Well ID GWC-47
Well diameter 2 in
Well Total Depth 67.33 ft
Screen Length 10 ft
Depth to Water 30.67 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.7855223 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	15:17:03	719.98	17.85	7.03	217.20	4.34	30.68	3.18	58.27
Last 5	15:21:03	959.96	17.81	7.10	217.25	3.54	30.68	3.19	55.42
Last 5	15:25:03	1199.95	17.78	7.12	216.25	3.73	30.68	3.20	53.99
Last 5	15:29:03	1439.94	17.72	7.16	215.56	3.32	30.68	3.21	51.76
Last 5	15:33:03	1679.92	17.72	7.19	214.61	3.47	30.68	3.23	50.27
Variance 0			-0.03	0.03	-0.99			0.00	-1.43
Variance 1			-0.06	0.04	-0.69			0.01	-2.24
Variance 2			-0.00	0.02	-0.95			0.02	-1.48

Notes

Prepurged 2L

Grab Samples

GWC-47
Metals
GWC-47
TDS
GWC-47
Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 16:26:52

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 84.4 ft

Pump placement from TOC 79.4 ft

Well Information:

Well ID GWC-47R
Well diameter 2 in
Well Total Depth 84.4 ft
Screen Length 10 ft
Depth to Water 30.66 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.8617129 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 29.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	16:08:31	479.99	17.81	7.44	317.17	0.62	33.14	2.42	37.76
Last 5	16:12:31	719.98	18.28	7.47	317.86	0.18	33.22	2.29	37.83
Last 5	16:16:31	959.96	18.48	7.49	313.95	0.80	33.14	2.22	38.44
Last 5	16:20:31	1199.95	18.26	7.51	313.61	0.64	33.12	2.12	38.26
Last 5	16:24:31	1439.93	18.08	7.51	312.30	0.70	33.12	1.90	38.54
Variance 0			0.20	0.02	-3.90			-0.07	0.61
Variance 1			-0.21	0.01	-0.34			-0.10	-0.18
Variance 2			-0.19	0.00	-1.31			-0.22	0.28

Notes

Prepurged 2L

Grab Samples

GWC-47R
Metals

GWC-47R
TDS

GWC-47R
Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 14:20:49

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 58.0 ft

Pump placement from TOC 53.0 ft

Well Information:

Well ID GWC-48
Well diameter 2 in
Well Total Depth 58.0 ft
Screen Length 10 ft
Depth to Water 27.21 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.68 in
Total Volume Pumped 7.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:01:56	2159.89	17.72	5.22	52.00	0.42	27.35	3.37	101.13
Last 5	14:05:56	2399.88	17.63	5.20	50.30	0.53	27.35	3.49	103.90
Last 5	14:09:56	2639.86	17.59	5.20	50.15	0.61	27.30	3.59	105.79
Last 5	14:13:56	2879.85	17.53	5.19	48.03	0.48	27.35	3.73	107.41
Last 5	14:17:56	3119.84	17.53	5.18	48.28	0.61	27.35	3.81	109.42
Variance 0			-0.05	-0.00	-0.15			0.10	1.89
Variance 1			-0.05	-0.01	-2.11			0.13	1.62
Variance 2			0.00	-0.01	0.25			0.08	2.02

Notes

Prepurged 2L

Grab Samples

GWC-48
Metals
GWC-48
TDS
GWC-48
Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 11:13:31

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 134.3 ft

Pump placement from TOC 129.3 ft

Well Information:

Well ID GWC-49R
Well diameter 2 in
Well Total Depth 134.3 ft
Screen Length 10 ft
Depth to Water 46.23 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 1.084438 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 1.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:01:04	240.01	17.05	7.14	224.37	0.80	46.26	0.67	47.88
Last 5	11:05:04	479.99	17.17	8.66	162.16	1.22	46.26	0.84	55.35
Last 5	11:09:04	719.98	17.19	10.17	153.56	0.38	46.26	0.90	55.23
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.11	1.52	-62.21			0.17	7.47
Variance 2			0.02	1.51	-8.60			0.06	-0.13

Notes

Prepurged 2L
pH rose to above 10. Going to recalibrate troll and restart low flow.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-09 12:55:59

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 134.3 ft

Pump placement from TOC 129.3 ft

Well Information:

Well ID GWC-49R
Well diameter 2 in
Well Total Depth 134.3 ft
Screen Length 10 ft
Depth to Water 42.23 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 1.084438 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 1.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:36:45	240.01	18.36	10.57	204.18	1.22	46.26	1.65	72.76
Last 5	12:40:45	479.99	19.04	10.65	203.73	1.66	46.26	1.28	65.82
Last 5	12:44:45	719.98	19.15	10.73	205.78	1.88	46.26	1.14	60.14
Last 5	12:48:45	959.96	19.14	10.76	206.45	1.27	46.26	1.19	56.28
Last 5									
Variance 0			0.68	0.09	-0.44			-0.37	-6.94
Variance 1			0.11	0.08	2.05			-0.14	-5.68
Variance 2			-0.00	0.03	0.67			0.05	-3.86

Notes

Prepurged 1L
pH over 10.5. Called Pete Robinson, he is checking on this well. Stopped low flow, Pete asked to redevelop well. Will grab equipment tonight and redevelop on 3/10/20

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-10 12:08:41

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Geotech Reclaimer
Tubing Type LDPE
Tubing Diameter .375 in
Tubing Length 134.4 ft

Pump placement from TOC 129.4 ft

Well Information:

Well ID GWC-49R
Well diameter 2 in
Well Total Depth 134.4 ft
Screen Length 10 ft
Depth to Water 46.27 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 3.403986 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.6 in
Total Volume Pumped 61 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 1000%
Stabilization									
Last 5	11:51:27	3119.83	16.11	8.03	269.85	8.94	46.33	4.79	31.31
Last 5	11:55:27	3359.82	16.11	7.99	273.94	6.79	46.33	4.74	30.56
Last 5	11:59:27	3599.81	16.20	7.96	277.06	4.90	46.33	4.64	29.88
Last 5	12:03:27	3839.79	16.20	7.92	280.01	3.22	46.33	4.54	28.80
Last 5	12:07:27	4079.78	16.29	7.92	280.23	3.59	46.33	4.52	28.26
Variance 0			0.09	-0.04	3.12			-0.10	-0.68
Variance 1			0.00	-0.03	2.94			-0.10	-1.08
Variance 2			0.08	-0.01	0.23			-0.02	-0.53

Notes

Well Development
Well is developed

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-11 15:43:34

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 134.4 ft

Pump placement from TOC 129.4 ft

Well Information:

Well ID GWC-49R
Well diameter 2 in
Well Total Depth 134.4 ft
Screen Length 10 ft
Depth to Water 46.34 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 1.084884 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.24 in
Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	15:24:30	1679.92	17.59	8.31	221.47	1.20	46.36	6.43	90.25
Last 5	15:28:30	1919.90	17.58	8.28	221.49	1.25	46.36	6.42	90.12
Last 5	15:32:30	2159.89	17.78	8.25	220.41	1.07	46.36	6.42	89.71
Last 5	15:36:30	2399.88	17.78	8.21	220.55	1.11	46.36	6.41	90.14
Last 5	15:40:30	2639.86	17.81	8.19	220.79	0.68	46.36	6.41	90.12
Variance 0			0.20	-0.03	-1.09			-0.00	-0.42
Variance 1			0.00	-0.03	0.15			-0.01	0.43
Variance 2			0.02	-0.02	0.23			0.00	-0.01

Notes

Prepurged 1L

Grab Samples

GWC-49R

Metals

GWC-49R

TDS

GWC-49R

Inorganics

Product Name: Low-Flow System

Date: 2020-03-09 10:21:19

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 94.55 ft

Pump placement from TOC 89.55 ft

Well Information:

Well ID GWC-49Z
Well diameter 2 in
Well Total Depth 94.55 ft
Screen Length 10 ft
Depth to Water 45.53 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.9070166 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 10.92 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	09:57:04	240.03	15.15	5.71	25.00	1.62	46.08	6.52	44.36
Last 5	10:01:04	479.99	15.58	5.67	24.73	1.72	46.16	6.43	44.59
Last 5	10:05:04	719.98	15.70	5.65	24.80	1.69	46.23	6.43	47.31
Last 5	10:09:04	959.96	15.80	5.64	24.64	1.55	46.29	6.47	48.94
Last 5	10:17:03	1439.93	16.02	5.60	23.76	1.63	46.44	6.68	53.75
Variance 0			0.12	-0.02	0.06			0.01	2.73
Variance 1			0.09	-0.01	-0.16			0.04	1.63
Variance 2			0.22	-0.03	-0.88			0.21	4.81

Notes

Prepurged 2L

Grab Samples

GWC-49Z

Metals

GWC-49Z

TDS

GWC-49Z

Inorganics

Product Name: Low-Flow System

Date: 2020-03-11 13:36:58

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 96.7 ft

Pump placement from TOC 91.7 ft

Well Information:

Well ID GWA-50
Well diameter 2 in
Well Total Depth 96.7 ft
Screen Length 10 ft
Depth to Water 47.99 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.916613 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 149.16 in
Total Volume Pumped 16.01 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	13:17:43	6719.62	16.76	5.55	17.65	0.58	60.28	7.06	146.67
Last 5	13:21:43	6959.60	16.74	5.55	17.76	0.61	60.49	7.02	147.28
Last 5	13:25:43	7199.59	16.91	5.58	17.82	0.77	60.43	6.94	146.77
Last 5	13:29:43	7439.57	16.92	5.57	17.95	0.61	60.42	6.90	147.53
Last 5	13:33:43	7679.56	17.00	5.57	18.02	0.53	60.42	6.88	148.43
Variance 0			0.17	0.03	0.06			-0.08	-0.51
Variance 1			0.01	-0.01	0.12			-0.04	0.76
Variance 2			0.09	-0.00	0.07			-0.02	0.90

Notes

Prepurged 1L

Grab Samples

GWA-50
Metals
GWA-50
TDS
GWA-50
Inorganics

Product Name: Low-Flow System

Date: 2020-03-11 14:51:10

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 149.53 ft

Pump placement from TOC 140.53 ft

Well Information:

Well ID GWA-50R
Well diameter 2 in
Well Total Depth 145.53 ft
Screen Length 10 ft
Depth to Water 63.78 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 1.152416 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.84 in
Total Volume Pumped 4.48 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	14:31:49	960.02	16.56	5.49	17.76	0.27	63.85	10.00	128.45
Last 5	14:35:49	1200.02	16.56	5.43	17.64	0.22	63.85	10.02	128.71
Last 5	14:39:49	1440.02	16.50	5.40	17.68	0.20	63.85	10.33	129.12
Last 5	14:43:49	1680.02	16.47	5.39	17.76	0.25	63.85	10.27	129.30
Last 5	14:47:49	1920.02	16.47	5.40	17.83	0.17	63.85	10.25	128.72
Variance 0			-0.06	-0.02	0.03			0.31	0.40
Variance 1			-0.03	-0.01	0.08			-0.06	0.18
Variance 2			-0.00	0.01	0.08			-0.02	-0.59

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-50R
Metals
GWA-50R
TDS

GWA-50R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-02 16:27:57

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 99 ft

Pump placement from TOC 94 ft

Well Information:

Well ID GWA-51RZ
Well diameter 2 in
Well Total Depth 94.2 ft
Screen Length 10 ft
Depth to Water 49.06 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.9268789 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 362.4 in
Total Volume Pumped 29 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	16:05:42	4079.78	16.38	7.46	373.95	0.75	77.10	5.05	12.14
Last 5	16:13:42	4559.74	16.33	7.46	373.74	0.47	80.36	5.06	13.30
Last 5	16:17:42	4799.73	16.32	7.47	373.53	0.77	82.05	5.05	13.90
Last 5	16:21:42	5039.72	16.32	7.47	373.69	0.62	83.38	5.00	14.38
Last 5	16:25:42	5279.70	16.33	7.48	373.43	0.51	84.73	4.94	15.01
Variance 0			-0.01	0.01	-0.21			-0.00	0.60
Variance 1			-0.00	0.00	0.17			-0.06	0.48
Variance 2			0.01	0.01	-0.26			-0.06	0.63

Notes

Prepurged 2 liters
Complete evacuation. Will sample on 3/3/20

Grab Samples

Report Created: 2020-03-03 10:08:06
 Site: Plant Bowen GWA-51RZ
 GPS:
 Log Created: 2020-03-03 10:06:31
 Number Readings: 11
 Battery Type: SmarTROLLâ„¢ Battery Pack
 Battery SN: 609178
 Device Type: SmarTROLLâ„¢ MP
 Device SN: 642533

Created	Baro (mba)	Temp (C)	RDO (mg/l)	RDO Sat (%)	pH (pH)	ORP (mV)	Act Cond (µS/cm)	Sp Cond (µS/cm)	Salinity (psu)	Resist (Ohm-cm)	Density (g/cm³)	TDS (ppt)	Depth (ft)	Pressure (ft)	Air Temp (C)
3/3/2020 10:06	987.4	16.47	7.65	80.5	7.73	120.4	470.8	562.3	0.3	2124	0.999	0	-0.4	-0.174	17.8
3/3/2020 10:06	987.4	16.47	7.65	80.5	7.73	115.5	470.8	562.3	0.3	2124	0.999	0	-0.4	-0.174	17.8
3/3/2020 10:06	987.4	16.41	7.59	79.8	7.73	113.4	445	531.9	0.3	2247	0.999	0	-0.42	-0.183	17.8
3/3/2020 10:06	987.4	16.37	7.53	79	7.73	116.6	461.5	552.4	0.3	2167	0.999	0	-0.41	-0.179	17.8
3/3/2020 10:07	987.4	16.31	7.49	78.6	7.72	113.4	447.9	536.7	0.3	2233	0.999	0	-0.46	-0.2	17.8
3/3/2020 10:07	987.4	16.29	7.49	78.5	7.7	109.5	406.8	487.9	0.2	2458	0.999	0	-0.43	-0.188	17.8
3/3/2020 10:07	987.4	16.25	7.45	78	7.7	107.1	427.4	513.1	0.2	2340	0.999	0	-0.44	-0.189	17.8
3/3/2020 10:07	987.4	16.21	7.42	77.7	7.71	101.8	419	503.3	0.2	2387	0.999	0	-0.44	-0.189	17.9
3/3/2020 10:07	987.4	16.21	7.41	77.5	7.7	99.4	393.5	473	0.2	2541	0.999	0	-0.45	-0.194	17.9
3/3/2020 10:07	987.4	16.21	7.4	77.4	7.71	100.2	394.6	474.3	0.2	2534	0.999	0	-0.43	-0.185	17.9
3/3/2020 10:08	987.5	16.21	7.35	76.9	7.71	97.4	387	465.1	0.2	2584	0.999	0	-0.42	-0.18	17.9

Product Name: Low-Flow System

Date: 2020-03-02 16:28:15

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Dedicated
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 88.0 ft

Pump placement from TOC 79.0 ft

Well Information:

Well ID GWA-52
Well diameter 2 in
Well Total Depth 84.0 ft
Screen Length 10 ft
Depth to Water 49.99 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.8777813 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0 in
Total Volume Pumped 3.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	16:12:12	1081.02	16.12	7.34	287.38	0.39	49.99	6.09	55.03
Last 5	16:15:13	1262.02	16.13	7.37	288.63	0.49	49.98	6.00	54.71
Last 5	16:18:13	1442.02	16.12	7.40	289.74	0.54	49.98	5.94	55.25
Last 5	16:21:13	1622.02	16.15	7.42	290.90	0.48	49.99	5.86	55.57
Last 5	16:24:13	1802.02	16.08	7.44	292.02	0.43	49.98	5.81	56.16
Variance 0			-0.01	0.03	1.11			-0.06	0.54
Variance 1			0.03	0.02	1.16			-0.08	0.32
Variance 2			-0.07	0.02	1.12			-0.05	0.59

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-52
Metals
GWA-52
TDS

GWA-52
Inorganics
DUP-1
Metals
DUP-1
TDS
DUP-1
Inorganics

Product Name: Low-Flow System

Date: 2020-03-04 11:13:49

Project Information:

Operator Name William Laaker
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 125.9 ft

Pump placement from TOC 115.9 ft

Well Information:

Well ID GWA-53
Well diameter 2 in
Well Total Depth 120.9 ft
Screen Length 10 ft
Depth to Water 51.09 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.751945 L
Calculated Sample Rate 180 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 7.14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Stabilization									
Last 5	10:58:25	2340.02	16.22	7.62	266.86	5.04	51.12	7.84	45.76
Last 5	11:01:26	2520.90	16.21	7.63	267.11	4.58	51.12	7.97	45.99
Last 5	11:04:26	2700.90	16.24	7.63	266.96	4.43	51.12	7.94	46.15
Last 5	11:07:26	2880.90	16.20	7.63	266.76	4.44	51.12	7.89	46.68
Last 5	11:10:26	3060.90	16.20	7.63	266.91	4.17	51.12	7.92	47.37
Variance 0			0.03	0.00	-0.16			-0.02	0.16
Variance 1			-0.03	0.00	-0.20			-0.05	0.52
Variance 2			-0.00	-0.00	0.16			0.02	0.70

Notes

Prepurged 1 L
Well performed well

Grab Samples

GWA-53
Metals
GWA-53
TDS

GWA-53
Inorganics



Product Name: Low-Flow System

Date: 2020-03-04 12:11:26

Project Information:

Operator Name Veronica Fay
Company Name Resolute
Project Name March 2020 Landfill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 588863
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder pump
Tubing Type LDPE
Tubing Diameter 0.17 in
Tubing Length 172.8 ft

Pump placement from TOC 163.8 ft

Well Information:

Well ID GWA-53R
Well diameter 2 in
Well Total Depth 168.6 ft
Screen Length 10 ft
Depth to Water 45.2 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9612795 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 25.8 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	11:49:34	1199.95	10.21	7.75	278.77	1.50	47.21	15.04	77.85
Last 5	11:53:34	1439.95	10.24	7.75	278.78	1.37	47.30	15.75	78.02
Last 5	11:57:34	1679.92	10.26	7.75	279.12	1.59	47.30	16.69	78.63
Last 5	12:01:34	1919.91	10.27	7.75	278.49	1.26	47.35	16.50	80.83
Last 5	12:05:34	2159.89	10.35	7.72	277.94	1.23	47.35	15.86	80.37
Variance 0			0.02	-0.00	0.34			0.93	0.61
Variance 1			0.01	0.00	-0.62			-0.18	2.21
Variance 2			0.08	-0.03	-0.55			-0.65	-0.47

Notes

Prepurged 8.75L

Well has organic film and tiny organic bubbles in groundwater. Dead bees/wasps in stick up. Possible organic impact from dead insects

Grab Samples

GWA-53R
Metals
GWA-53R
TDS

GWA-53R
Inorganics



Product Name: Low-Flow System

Date: 2020-03-03 13:20:43

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 81 ft

Pump placement from TOC 76 ft

Well Information:

Well ID GWA-54
Well diameter 2 in
Well Total Depth 76.1 ft
Screen Length 10 ft
Depth to Water 44.32 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.8465373 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	13:02:55	1439.93	18.53	7.50	221.67	1.86	44.33	4.22	14.07
Last 5	13:06:55	1679.92	18.43	7.52	223.30	1.28	44.33	4.11	13.18
Last 5	13:10:55	1919.91	18.26	7.56	224.54	2.12	44.33	4.04	12.38
Last 5	13:14:55	2159.89	18.16	7.59	224.82	0.95	44.33	4.03	12.77
Last 5	13:18:55	2399.87	18.08	7.59	230.14	1.10	44.33	4.03	13.60
Variance 0			-0.17	0.04	1.24			-0.06	-0.80
Variance 1			-0.10	0.02	0.28			-0.01	0.39
Variance 2			-0.08	0.01	5.32			-0.00	0.83

Notes

Prepurged 2L

Grab Samples

GWA-54
Metals
GWA-54
TDS
GWA-54
Inorganics

Product Name: Low-Flow System

Date: 2020-03-03 15:11:05

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Field Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 65 ft

Pump placement from TOC 60 ft

Well Information:

Well ID GWA-55
Well diameter 2 in
Well Total Depth 65.2 ft
Screen Length 10 ft
Depth to Water 36.52 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.7751225 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 4.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	14:52:51	240.01	17.46	7.08	365.24	1.13	36.53	4.60	22.28
Last 5	14:56:51	479.99	17.42	7.04	360.17	0.82	36.53	4.62	24.17
Last 5	15:00:51	719.98	17.41	7.01	355.55	0.41	36.53	4.62	25.73
Last 5	15:04:51	959.96	17.39	6.98	350.81	0.63	36.53	4.65	27.07
Last 5	15:08:51	1199.94	17.39	6.95	345.73	0.55	36.53	4.69	28.73
Variance 0			-0.01	-0.03	-4.61			-0.00	1.56
Variance 1			-0.03	-0.03	-4.74			0.03	1.34
Variance 2			0.01	-0.03	-5.08			0.04	1.66

Notes

Prepurged 2L

Grab Samples

GWA-55
Metals
GWA-55
TDS
GWA-55
Inorganics

Product Name: Low-Flow System

Date: 2020-03-04 10:46:20

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Fill Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 105 ft

Pump placement from TOC 100 ft

Well Information:

Well ID GWA-55R
Well diameter 2 in
Well Total Depth 105.7 ft
Screen Length 10 ft
Depth to Water 37.50 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.9536594 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.24 in
Total Volume Pumped 3.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	10:27:56	719.98	16.12	7.29	357.86	2.31	36.53	5.34	46.36
Last 5	10:31:56	959.96	16.18	7.27	358.10	1.81	36.52	5.51	44.53
Last 5	10:35:56	1199.95	16.25	7.27	357.88	1.00	36.52	5.59	43.94
Last 5	10:39:56	1439.95	16.26	7.27	357.73	1.11	36.52	5.64	43.45
Last 5	10:43:56	1679.92	16.27	7.27	357.66	0.80	36.52	5.67	43.51
Variance 0			0.07	-0.00	-0.22			0.08	-0.58
Variance 1			0.01	-0.00	-0.16			0.06	-0.50
Variance 2			0.01	-0.00	-0.07			0.03	0.06

Notes

Prepurged 2L

Grab Samples

GWA-55R
Metals

GWA-55R
TDS

GWA-55R
Inorganics

DUP030420
Duplicate



Product Name: Low-Flow System

Date: 2020-03-04 13:05:42

Project Information:

Operator Name Joe Booth
Company Name Resolute
Project Name March 2020 Land Field Event
Site Name Plant Bowen
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type dedicated
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 85 ft

Pump placement from TOC 80 ft

Well Information:

Well ID GWA-56
Well diameter 62 in
Well Total Depth 85.9 ft
Screen Length 10 ft
Depth to Water 32.07 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.864391 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 3.72 in
Total Volume Pumped 4.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1000%	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 1000%
Last 5	12:47:15	1439.94	16.21	7.97	574.53	1.15	32.38	1.02	52.65
Last 5	12:51:15	1679.92	16.23	7.96	571.44	1.23	32.38	1.00	51.14
Last 5	12:55:15	1919.90	16.29	7.96	568.31	0.81	32.38	1.01	49.92
Last 5	12:59:15	2159.89	16.29	7.95	563.99	0.76	32.38	1.04	49.31
Last 5	13:03:15	2399.88	16.25	7.95	562.89	0.65	32.38	1.07	48.93
Variance 0			0.06	0.00	-3.13			0.01	-1.22
Variance 1			-0.00	-0.01	-4.32			0.03	-0.62
Variance 2			-0.04	-0.01	-1.10			0.03	-0.37

Notes

Prepurged 2L

Grab Samples

GWA-56
Metals
GWA-56
TDS
GWA-56
Inorganics

WELL INSPECTIONS

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID G0001
 Date, field conditions 2/20/20

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

7 Corrective actions as needed, by date

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant B
 Permit Number _____
 Well ID GWA-2
 Date, field conditions 2/20/02

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GWA-22
 Date, field conditions 2/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Phish Pond
 Permit Number _____
 Well ID Catch-3
 Date, field conditions 2/20/00

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Room
 Permit Number _____
 Well ID GWH-4
 Date, field conditions 1/23/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plank Road
 Permit Number _____
 Well ID GW-4R
 Date, field conditions 2/20/05

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW-102
 Date, field conditions 1/10/10

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

 Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GWA-50
 Date, field conditions 2/20/02

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GWH-508
 Date, field conditions 2/20/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Phish River
 Permit Number _____
 Well ID GW-5
 Date, field conditions 2/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Pink Bluffs
 Permit Number _____
 Well ID GW-16
 Date, field conditions 2/27/04

		yes	no	n/a
1 Location/identification:				
a	Is the well visible and accessible?	<u>X</u>	_____	_____
b	Is the well properly identified with the correct well ID?	<u>X</u>	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	<u>X</u>	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u>X</u>	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<u>X</u>	_____	_____
b	Is the casing free of degradation or deterioration?	<u>X</u>	_____	_____
c	Does the casing have a functioning weep hole?	<u>X</u>	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<u>X</u>	_____	_____
e	Is the well locked and is the lock in good condition?	<u>X</u>	_____	_____
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<u>X</u>	_____	_____
b	Is the well pad sloped away from the protective casing?	<u>X</u>	_____	_____
c	Is the well pad in complete contact with the protective casing?	<u>X</u>	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u>X</u>	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	<u>X</u>	_____	_____
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<u>X</u>	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<u>X</u>	_____	_____
c	Is the well properly vented for equilibration of air pressure?	<u>X</u>	_____	_____
d	Is the survey point clearly marked on the inner casing?	<u>X</u>	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	<u>X</u>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u>X</u>	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<u>X</u>	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<u>X</u>	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	<u>X</u>	<u>2/27/04</u>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<u>X</u>	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plank Road
 Permit Number _____
 Well ID GW-672
 Date, field conditions 2/2/07

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Phosphate Recovery
 Permit Number _____
 Well ID GW-12
 Date, field conditions 1/15/04

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW-03
 Date, field conditions 2/20/02

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

Signature and Seal of PE/PQ responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Research
 Permit Number _____
 Well ID GW-002
 Date, field conditions 2/20/10

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID CW-13
 Date, field conditions 2/2/09

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

7 Corrective actions as needed, by date:
Dist. circumstances and the Pad.

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Road
 Permit Number _____
 Well ID CW-10
 Date, field conditions 2/28/08

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GWS-102
 Date, field conditions 2/20/08

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Ground
 Permit Number _____
 Well ID GW0011
 Date, field conditions 2/22/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant B
 Permit Number _____
 Well ID AP-100-112
 Date, field conditions 2/20/07

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant B
 Permit Number _____
 Well ID GW-012
 Date, field conditions 2/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW-13
 Date, field conditions 2/24/10

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GWC-122
 Date, field conditions 2/20/10

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW-1022
 Date, field conditions 2/20/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant, Brown, Middle East
 Permit Number: _____
 Well ID: 1001-14
 Date, field conditions: 2/28/2014 sunny to cloudy, cloudy, high wind 15-20

	yes	no	nr
1 Location/Identification			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
2 Casing/Casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
3 Surface/Pad			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
4 Integrity/Sealing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
f	_____	_____	_____
5 Pumping/ Groundwater Well/Drift			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	_____	_____	_____
7 Corrective actions as needed, by date:			

Signature and Seal of person responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name

Union Washburn Landfill

Permit Number

Well ID

Date, field conditions

12/2/93

	yes	no	up	
1 Location/ID/Designation				
a	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
c	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in drainage ditch or path)			
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be accessed?			
b	Is the casing free of suspension or deterioration?			
c	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with good gravel/sand?			
e	Is the well locked and is the lock in good condition?			
3 Wellhead and				
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad stepped away from the protective casing?			
c	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
e	Is the pad surface clean (not covered with sediment or debris)?			
4 Interior casing				
a	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as barbed wire)?			
c	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
e	Is the height of the well consistent with the original well log?			
f	Is the casing stable? (or does the annular space easily become touched or can it be taken apart by hand due to lack of gravel or use of slip couplings in construction)			
5 Sanitizing, Seawater, Wells Only				
a	Does well recharge adequately when purged?			
b	If dedicated sanitizing equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
c	Does the well require redevelopment (low flow, turbidity)?			
6 Based on your professional judgement, is the well construction/operation measures to: 1) achieve the objectives of the Groundwater Monitoring Program AND 2) comply with the applicable regulatory requirements?				
7 Corrective actions as required, by date				

Signature and Seal of NEPCO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Growth Landfill Landfill Landfill
 Permit Number: 10001
 Well ID: 10001
 Date, field conditions: 11/15/11 dry partially cloudy 10:00 AM

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

Signature and Seal of RWQO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: 20000 Beach, Lehigh, Lehigh Permit Number: _____
 Well ID: 1101 _____
 Date: 12/12/00 Inspector: John J. [unclear] Height of Well: _____

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

Signature and Seal of PEPCO representative for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant, Coast - Long Hill, Calif.
 Permit Number: 93001
 Well ID: 23312
 Date, field conditions: 2/23/2007

		yes	no	na
1 Location/Identification				
a	Is the well visible and accessible?	_____	_____	_____
b	Is the well properly identified with the correct well ID?	_____	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_____	_____	_____
2 Protective Casing				
A	Is the protective casing free from apparent damage and able to be secured?	_____	_____	_____
b	Is the casing free of degradation or deterioration?	_____	_____	_____
c	Does the casing have a functioning weep hole?	_____	_____	_____
d	Is the annular space between casings free of debris and water, or fluid with poor groundwater?	_____	_____	_____
e	Is the well capped and is the lock in good condition?	_____	_____	_____
3 Pad/Seal and				
a	Is the well pad in good condition (not cracked or broken)?	_____	_____	_____
b	Is the well pad sloped away from the protective casing?	_____	_____	_____
c	Is the well pad in complete contact with the protective casing?	_____	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (no undermining by animals, animal burrows, etc) does not flow when stepped on?	_____	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	_____	_____	_____
4 Internal casing				
a	Does the cap prevent entry of surface material into the well?	_____	_____	_____
b	Is the casing free of leaks or seeps, or any obstructions from foreign objects (such as debris)?	_____	_____	_____
c	Is the well properly vented for equilibration of air pressure?	_____	_____	_____
d	Is the survey point clearly marked on the inner casing?	_____	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	_____
f	Is the casing stable? (or does the protective casing when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?)	_____	_____	_____
5 Sampling, Groundwater Vials Only				
a	Does well discharge adequately when purged?	_____	_____	_____
b	If automated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	_____
c	Does the well require redevelopment (flow line, purge)?	_____	_____	_____
6 Based on your professional judgment, is the well construction/operation appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		_____	_____	_____
7 Corrective actions, if needed, by date.				

Signature and Date of HSPD responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: PLANT GROWERS LIMITED LAND

Parent Identifier: _____

Well ID: W1

Date, field conditions: 2/2/20 dry no no no

1 Location/Identification

- a Is the well visible and accessible? yes no
- b Is the well properly identified with the correct well ID? yes no
- c Is the well in a high traffic area and does the well require protection from traffic? yes no
- d Is the drainage around the well acceptable? (no standing water, no leachate trapped in obvious drainage flow paths) yes no

2 Casing/Ceramic

- a Is the protective casing free from apparent damage and able to be accessed? yes no
- b Is the casing free of degradation or deterioration? yes no
- c Does the casing have a functioning weep hole? yes no
- d Is the annular space between couplings filled with grout and water, or filled with gas grout/sealant? yes no
- e Is the well locked and is the lock in good condition? yes no

3 Well pad

- a Is the well pad in good condition (not cracked or broken)? yes no
- b Is the well pad shifted away from the protective casing? yes no
- c Is the well pad in complete contact with the protective casing? yes no
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) yes no
- e Is the well surface clean (not covered with sediment or debris)? yes no

4 Internal Casing

- a Does the cap prevent entry of foreign material into the well? yes no
- b Is the casing free of holes or leaks, or any obstructions from foreign objects (such as debris)? yes no
- c Is the well properly vented for equilibration of air pressure? yes no
- d Is the survey point clearly marked on the inner casing? yes no
- e Is the depth of the well consistent with the original well log? yes no
- f Is the casing stable? (it does the pad moves easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) yes no

5 Sampling Groundwater Vials/Seals

- a Does well recharge adequately when purged? yes no
- b If dedicated sampling equipment installed, is it in good condition and specific to the approved groundwater plan for the facility? yes no
- c Does the well require maintenance (low flow, backflow)? yes no

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

yes no

7 Corrective actions as needed, by date

Signature and Date of PEP/PO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: WATER TREATMENT AND STORAGE FACILITY
 Parcel Number: 1234567890
 Well ID: GW-001
 Date, Well condition: 1/15/2024, good

	yes	no	na
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>		
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>		
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2 Protective Casings			
a Is the protective casing free from apparent damage and well to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning wrap hole?	<input checked="" type="checkbox"/>		
d Is the annular space between casings free of debris and water, or filled with non-voiding sand?	<input checked="" type="checkbox"/>		
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>		
3 Wellhead			
a Is the well head in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well head raised away from the protective casing?	<input checked="" type="checkbox"/>		
c Is the well head in complete contact with the protective casing?	<input checked="" type="checkbox"/>		
d Is the well head in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does one see (visual entry of foreign material into the well?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or kinks, or any obstructions from foreign objects (such as before)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>		
d Is the survey point clearly marked on the inner casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the well move visibly when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling, Groundwater Wells Only			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the well require redevelopment (low flow, surging)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well's construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>		
7 Corrective actions as needed, by date			

Signature and Seal of PE/PS responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: White House Landfill Well ...
 Permit Number: 100A-20 ..
 Well ID: 112/05 ...
 Date, field conditions: 11/2/05 ...

- | | yes | no | no |
|--|---|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the control well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in reverse drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea-gravel/stone? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 Wellhead and | | | |
| a | Is the well head in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well head sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well seal in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well seal in complete contact with the ground surface and stable? (not compromised by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 Inner Casing | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign material (such as ballers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration with pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (it does the end move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 Annular Space/Groundwater Wells Only | | | |
| a | Does well seepage adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and are they in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbidity)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Corrective Actions as needed, by date | | | |
| | | | |

Signature and Title of PE/PLI responsible for integration

.....

Groundwater Monitoring Well Integrity Form

Site Name: Boon Research Metall Found
 Permit Number: _____
 Well ID: 117A-1132
 Date, field conditions: 2/28/20 very good visibility, high H₂O

		yes	no	na
1 Location/ID/Porting				
a	Is the well visible and accessible?	_____	_____	_____
b	Is the well properly identified with the correct well ID?	_____	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in stream drainage flow path)	_____	_____	_____
2 Protective Casing				
a	Is the protective casing free from equipment damage and able to be secured?	_____	_____	_____
b	Is the casing free of degradation or deterioration?	_____	_____	_____
c	Does the casing have a functioning weep hole?	_____	_____	_____
d	Is the annular space between casing clear of debris and water, or filled with non-proved sand?	_____	_____	_____
e	Is the well locked and is the lock in good condition?	_____	_____	_____
3 Wellhead and				
a	Is the well head in good condition (not cracked or leaking)?	_____	_____	_____
b	Is the well head placed away from the protective casing?	_____	_____	_____
c	Is the well pad in complete contact with the protective casing?	_____	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	_____	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	_____	_____	_____
4 Integrit^y casing				
a	Does the casing prevent entry of foreign material into the well?	_____	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	_____	_____	_____
c	Is the well properly vented for equalization of air pressure?	_____	_____	_____
d	Is the survey point clearly marked on the inner casing?	_____	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	_____
f	Is the casing stable? (or does the pad move easily when braced or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	_____	_____	_____
5 Sample Groundwater Vials Only.				
a	Does well recover or equalize when purged?	_____	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	_____
c	Does the well sample redevelopment (new line, turbid)?	_____	_____	_____
6 Used my (use professional judgement, is the well construction / system appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		_____	_____	_____
7 Corrective actions as needed, by date:				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Signature and Seal of PE/PC responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Growth, Washburn, East
 Permit Number:
 Well ID: GW-10
 Date field completed: March 26, 2013

	yes	no	NA
1 Location/Identification			
a	Is the well visible and accessible?	_____	_____
b	Is the well properly identified with the correct well ID?	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____
d	Is the drainage around the well acceptable? (no standing water, not a well located in obvious drainage flow path)	_____	_____
2 Protective casing			
a	Is the protective casing free from apparent damage and able to be accessed?	_____	_____
b	Is the casing free of degradation or deterioration?	_____	_____
c	Have the casing have a functioning wrap top?	_____	_____
d	Is the annular space between casing/inner of cable and water, or filled with pack gravel/sand?	_____	_____
e	Is the well locked and is the lock in good condition?	_____	_____
3 Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	_____	_____
b	Is the well pad slanted away from the protective casing?	_____	_____
c	Is the well pad in complete contact with the protective casing?	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	_____	_____
4 Internal casing			
a	Does the cap prevent entry of foreign material into the well?	_____	_____
b	Is the casing free of kinks or bands, or any obstructions from foreign objects (such as debris)?	_____	_____
c	Is the well properly vented for equilibrium of air pressure?	_____	_____
d	Is the access point clearly marked on the inner casing?	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____
f	Is the casing stable? (or does the pad move easily when touched) or can it be taken apart by hand due to lack of gravel or use of slip couplings in construction?	_____	_____
5 Sampling Groundwater Wells Only			
a	Does well recharge adequately when purged?	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) address the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	_____	_____	_____
7 Corrective actions as needed, by date.			

Signature and Seal of HWMO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Alford Beach Coastal Resort
 Permit Number: _____
 Well ID: 10111-233
 Date, field conditions: 2/28/02 sunny, 100% humidity, 100% light

		yes	no	na
1 Location/ID/Reason				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casing clear of debris and water, or filled with pea-gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Well Pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Interior Casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of leaks or bonds, or any obstructions from foreign objects (such as ballers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pipe move easily when touched) or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 General Groundwater Well Only				
a	Does well recharge adequately when pumped?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is dedicated sampling equipment installed, well in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, surble)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective Actions as needed, by date				

Signature and Title of PEPC responsible for inspection: _____

Groundwater Monitoring Well Integrity Form

Site Name: Flow Back - Landfill Leach
 Form Number: _____
 Well ID: GW-101
 Date, field conditions: 1/15/08 sunny 40-70°F, light breeze, light SW

		yes	no	NA
1 Location/Identification				
a	Is the well visible and accessible?	_____	_____	_____
b	Is the well properly identified with the correct well ID?	_____	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____	_____
d	Is the drainage around the well acceptable? (no standing water, and is well located in obvious drainage flow path)	_____	_____	_____
2 Protective Casings				
a	Is the protective casing free from apparent damage and able to be recovered?	_____	_____	_____
b	Is the casing free of degradation or deterioration?	_____	_____	_____
c	Does the casing have a functioning weep hole?	_____	_____	_____
d	Is the annular space between casing and well bore and water, or filled with fine gravel/sand?	_____	_____	_____
e	Is the well locked and is the lock in good condition?	_____	_____	_____
3 Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	_____	_____	_____
b	Is the well pad shifted away from the protective casing?	_____	_____	_____
c	Is the well pad in complete contact with the protective casing?	_____	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, etc) does not move when stepped on?	_____	_____	_____
e	Is the pad surface clean (not covered with sediment or sludge)?	_____	_____	_____
4 Wellhead/Casing				
a	Does the cap prevent entry of foreign material into the well?	_____	_____	_____
b	Is the casing free of leaks or leaks, or any obstructions from foreign objects (such as ballers)?	_____	_____	_____
c	Is the well properly vented for equalization of air pressure?	_____	_____	_____
d	Is the weep hole clearly marked on the inner casing?	_____	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	_____
f	Is the casing stable? (or does the pad move freely when turned or can it be taken apart by hand due to lack of gravel or use of illite couplings in construction)	_____	_____	_____
5 Sampling Groundwater Wells Only				
a	Does well recharge adequately when purged?	_____	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	_____
c	Does the well require maintenance (low flow, turbid)?	_____	_____	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		_____	_____	_____

7 Corrective actions as needed, by date.

Signature and Title of MDEPC representative for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plum Brook Landfill East
 Permit Number: _____
 Well ID: 110014
 Date, Time, Location: 2/28/14, 10:00 AM, 110014, 110014

	yes	no	na
1 Location/Identification			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
2 Protective Casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
3 Wellhead			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
4 Internal casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
f	_____	_____	_____
5 Sampling, Groundwater Vials Only			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
6 Based on your professional judgement, is the well construction / type / etc appropriate to (1) achieve the objectives of the Groundwater Monitoring Program and (2) comply with the applicable regulatory requirements?			
	_____	_____	_____
7 Corrective actions as needed, by date:			

Signature and Seal of PRPA responsible for inspection:

Groundwater Monitoring Well Integrity Form

Site Name: Blount County, Industrial Park
 Permit Number: 2007000001
 Well ID: 2007000001
 Date, field conditions: 03/08/08

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	yes		
b	Is the well properly identified with the correct well ID?	yes		
c	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	yes		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	yes		
b	Is the casing free of degradation or deterioration?	yes		
c	Does the casing have a functioning weep hole?			
d	Is the annular space between casing free of debris and water, or filled with grout/curtain?	yes		
e	Is the well locked and is the lock in good condition?	yes		
3 Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	yes		
b	Is the well pad slightly away from the protective casing?	yes		
c	Is the well pad in complete contact with the protective casing?	yes		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	yes		
e	Is the pad surface clean (not covered with sediment or sludge)?	yes		
4 Integrity Casing				
a	Does the cap prevent entry of foreign material into the well?	yes		
b	Is the casing free of leaks or holes, or any other signs from foreign objects (such as ballers)?	yes		
c	Is the well properly vented for equalization of air pressure?	yes		
d	Is the survey point clearly marked on the inner casing?	yes		
e	Is the depth of the well consistent with the original well log?	yes		
f	Is the casing stable? (or does the casing easily wash through or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	yes		
5 Monitor Groundwater With Care				
a	Does well recharge adequately when pumped?	yes		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	yes		
c	Does the well require maintenance (low flow, tubing)?	yes		
6 Based on your professional judgement, is the well construction / installation appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		yes		
7 Corrective Actions as needed, by date				

Signature and Title of PE/PC (responsible for inspection)

Groundwater Monitoring Well Integrity Form

Site Name: 14000, 15000, 16000, 17000, 18000, 19000, 20000, 21000, 22000, 23000, 24000, 25000, 26000, 27000, 28000, 29000, 30000, 31000, 32000, 33000, 34000, 35000, 36000, 37000, 38000, 39000, 40000, 41000, 42000, 43000, 44000, 45000, 46000, 47000, 48000, 49000, 50000, 51000, 52000, 53000, 54000, 55000, 56000, 57000, 58000, 59000, 60000, 61000, 62000, 63000, 64000, 65000, 66000, 67000, 68000, 69000, 70000, 71000, 72000, 73000, 74000, 75000, 76000, 77000, 78000, 79000, 80000, 81000, 82000, 83000, 84000, 85000, 86000, 87000, 88000, 89000, 90000, 91000, 92000, 93000, 94000, 95000, 96000, 97000, 98000, 99000, 100000
 Permit Number: _____
 Well ID: _____
 Date, field conditions: 11/11/2011, sunny, 65-70 degrees, 10-15 mph, 10-15% humidity

Yes No NA

1 Location/Identification

- a Is the well visible and accessible? Yes No NA
- b Is the well properly identified with the correct well ID? Yes No NA
- c Is the well in a high traffic area and does the well require protection from traffic? Yes No NA
- d Is the drainage around the well acceptable? (no standing water, one or two puddles in obvious drainage flow paths) Yes No NA

2 Protective Casing

- a Is the protective casing free from apparent damage and able to be surveyed? Yes No NA
- b Is the casing free of degradation or deterioration? Yes No NA
- c Does the casing have a functioning wear hole? Yes No NA
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Yes No NA
- e Is the well cased and is the lock in good condition? Yes No NA

3 Surface pad

- a Is the well pad in good condition (not cracked or broken)? Yes No NA
- b Is the well pad sloped away from the protective casing? Yes No NA
- c Is the well pad in complete contact with the protective casing? Yes No NA
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) Yes No NA
- e Is the pad surface clean (not covered with sediment or debris)? Yes No NA

4 Internal Casing

- a Does the cap prevent entry of surface material into the well? Yes No NA
- b Is the casing free of kinks or dents, or any obstructions that foreign objects (such as rags) can? Yes No NA
- c Is the well properly vented for equilibrium of air pressure? Yes No NA
- d Is the survey point clearly marked on the inner casing? Yes No NA
- e Is the depth of the well consistent with the original well log? Yes No NA
- f Is the casing stable? (or does the PVC move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Yes No NA

5 Sampling: Groundwater Wells Only

- a Does well recharge adequately when purged? Yes No NA
- b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Yes No NA
- c Does the well require test equipment (low flow, turbid)? Yes No NA

6 Based on your professional judgement, is the well construction / location appropriate to 1) address the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? Yes No NA

7 Corrective actions as needed, by date

Signature and Date of HSPAQ response to inspection

Groundwater Monitoring Well Integrity Form

Site Name: Chesapeake Bay, 1000' Well - East
 Parcel Number: _____
 Well ID: 1000-1000
 Date, Time, Conditions: 2/28/2013 10:00 AM, 1000' Well, 1000' Well, 1000' Well

yes no NA

1 Location/Identification

- a Is the well stable and accessible? _____
- b Is the well properly identified with the correct well ID? _____
- c Is the well on a high (flood) area and does the well require protection from traffic? _____
- d Is the drainage around the well acceptable? (no standing water, no le well located in obvious drainage flow path) _____

2 Casing/Seal

- a Is the protective casing free from apparent damage and able to be entered? _____
- b Is the casing free of degradation or deterioration? _____
- c Does the casing have a functioning weep hole? _____
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? _____
- e Is the well locked and is the lock in good condition? _____

3 Surface pad

- a Is the well pad in good condition (not cracked or broken)? _____
- b Is the well pad sloped away from the protective casing? _____
- c Is the well pad in complete contact with the protective casing? _____
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) _____
- e Is the pad surface clean (not covered with sediment or debris)? _____

4 Internal Casing

- a Does the cap prevent entry of foreign material into the well? _____
- b Is the casing free of kinks or kinks, or any obstructions from foreign objects (such as nails)? _____
- c Is the well properly vented for equilibration of air pressure? _____
- d Is the survey point clearly marked on the inner casing? _____
- e Is the depth of the well consistent with the original well log? _____
- f Is the casing stable? (or does the PVC move easily when tugged or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) _____

5 Sampling Groundwater With Casing

- a Does well recharge adequately when purged? _____
- b Is dedicated sampling equipment installed, and in good condition and specified in the approved groundwater plan for the facility? _____
- c Does the well require redevelopment (low flow, flush)? _____

6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions, as needed, by date:

Signature and Date of MWMO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: West Valley Landfill
Well Number: 1001
Well ID: 1001
Date, field conditions: 7/27/11 sunny to partially cloudy, 70°/50°

	yes	no	n/a
1 Location/Installation			
a Is the well clearly and accessible?			
b Is the well properly identified with the correct well ID?			
c Is the well in a high traffic area and does the well require protection from traffic?			
d Is the drainage around the well acceptable? (no standing water, see if well located in obvious drainage flow path)			
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be surveyed?			
b Is the casing free of degradation or deterioration?			
c Does the casing have a functioning wrap hole?			
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
e Is the well locked and is the lock in good condition?			
3 Surface Seal			
a Is the well pad in good condition (not cracked or broken)?			
b Is the well pad sloped away from the protective casing?			
c Is the well pad in complete contact with the protective casing?			
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
e Is the pad surface clean (not covered with sediment or debris)?			
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?			
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as casing)?			
c Is the well properly vented for equilibration of air pressure?			
d Is the survey point clearly marked on the inner casing?			
e Is the depth of the well consistent with the original well log?			
f Is the casing stable? (or does the PVC move readily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 General Groundwater Well Data			
a Does well recharge adequately when purged?			
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
c Does the well require reimbursement (low flow, surges)?			
6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Corrective actions, if needed, by date			

Signature and Seal of H&W responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Port Neero, Leishall Land
 Form Number: _____
 Well ID: 12002
 Date field completed: 2/28/02

	Y/N	Y	N
1 Location/Identification			
a	Is the well stable and accessible?		
b	Is the well properly identified with the correct well ID?		
c	Is the well in a safe frame area and does the well require protection from traffic?		
d	Is the drainage around the well acceptable? (no standing water, not a well located in obvious drainage flow path)		
2 Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?		
b	Is the casing free of degradation or deterioration?		
c	Does the casing have a typlifting weep hole?		
d	Is the annular space between casing clear of debris and water, or filled with non-gravel?		
e	Is the well locked and is the lock in good condition?		
3 Wellhead			
a	Is the well pad in good condition (not cracked or broken)?		
b	Is the well pad spaced away from the protective casing?		
c	Is the well pad in complete contact with the protective casing?		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		
e	Is the pad surface clean (not covered with sediment or debris)?		
4 Internal Casing			
a	Does the cap prevent entry of foreign material into the well?		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as debris)?		
c	Is the well properly vented for equilibration of air pressure?		
d	Is the survey point clearly marked on the inner casing?		
e	Is the depth of the well consistent with the original well log?		
f	Is the casing stable? (or does the cap move easily when touched or can it be taken apart by hand due to lack of grout or use of any sealants in construction)		
5 Sampling, Groundwater Withdrawal			
a	Does well recharge adequately when plugged?		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		
c	Does the well require maintenance (line flow, surge)?		
6 Overall (use your professional judgment, is the well condition / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Corrective actions as needed, by date.			

Signature and Seal of PIVOC responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Meadowbrook Landfill, Level 1
 Permit Number: 2202242
 Well ID: 2202242
 Date, field conditions: 2/21/2024 2202242 2202242 2202242 2202242

year site rate

1 Location/Identification

- a Is the well visible and accessible? _____
- b Is the well properly identified with the correct well ID? _____
- c Is the well in a high traffic area and does the well require protection from traffic? _____
- d Is the drainage around the well acceptable? (no standing water, no seeps located at obvious drainage discharge?) _____

2 Protective Casings

- a Is the protective casing free from apparent damage and able to be secured? _____
- b Is the casing free of degradation or deterioration? _____
- c Does the casing have a functioning weep hole? _____
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/agg? _____
- e Is the well sealed and is the seal in good condition? _____

3 Wellhead

- a Is the well cap in good condition (not cracked or broken)? _____
- b Is the well cap wiped away from the protective casing? _____
- c Is the well cap in complete contact with the protective casing? _____
- d Is the well cap in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) _____
- e Is the cap surface clean (not covered with soil/mud, or debris)? _____

4 Internal Casing

- a Does the cap prevent entry of foreign objects into the well? _____
- b Is the casing free of holes or damage, or any structures from foreign objects (such as rats)? _____
- c Is the well properly vented for equilibration or air pressure? _____
- d Is the weep hole clearly marked on the outer casing? _____
- e Is the depth of the well consistent with the original well log? _____
- f Is the casing stable? (or does the eye mark ability often diminish or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) _____

5 Sampling Groundwater Wells Only

- a Does well equipment adequately when sampled? _____
- b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? _____
- c Does the well require redevelopment (low flow, turbid)? _____

6 Based on your professional judgement, is the well construction / function appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions if needed, by date:

Signature and Seal of PRMCI representative for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant 200001 Location: 100001
 Permit Number: 100001
 Well ID: 100001
 Date, Time, Coordinates: 1/15/10 10:00 AM 100001 100001

	YTP	100	100
1 Location/Identification			
a	Is the well visible and accessible?	_____	_____
b	Is the well properly identified with the correct well ID?	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____
d	Is the discharge around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_____	_____
2 Protective Casings			
a	Is the protective casing free from apparent damage and able to be surveyed?	_____	_____
b	Is the casing free of degradation or deterioration?	_____	_____
c	Does the casing have a finishing wrap inside?	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with non-permeable?	_____	_____
e	Is the well locked and is the lock in good condition?	_____	_____
3 Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	_____	_____
b	Is the well pad sloped away from the protective casing?	_____	_____
c	Is the well pad in complete contact with the protective casing?	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	_____	_____
4 Internal Casings			
a	Have the caps prevented entry of foreign material into the well?	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as nails)?	_____	_____
c	Is the well properly vented for equilibration of air pressure?	_____	_____
d	Is the survey points clearly marked on the inner casing?	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____
f	Is the casing stable? (or does the protective casing when touched or hit it be taken apart by hand due to lack of grout or use of ally couplings in construction)	_____	_____
5 Sampling: Groundwater Wells Only			
a	Does well recharge adequately when plugged?	_____	_____
b	Is dedicated sampling equipment installed, is it in good condition and approved in the approved groundwater plan for the facility?	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objective of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	_____	_____	_____

7 Corrective actions as needed, by date:

Signature and Seal of PI/EC responsible for inspection:

Groundwater Monitoring Well Integrity Form

Site Name:
 Permit Number:
 Well ID:
 Date Field conditions:

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

7 Corrective actions are needed, by date:

Signature and Seal of PEPC responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Hazardous Waste Land
 Permit Number: _____
 Well ID: GW-101
 Date, Field Conditions: 1/15/2003 sunny, reasonably stable, light drizzle

year: 2003 mo: 15 day: 15

1 Location/Identification

- a Is the well visible and accessible? Y
- b Is the well properly identified with the correct well ID? Y
- c Is the well in a high traffic area and does the well require protection from traffic? Y
- d Is the drainage around the well adequate? (no standing water, nor is well located in obvious drainage flow path) Y

2 Casing/Cement

- a Is the protective casing free from apparent damage and able to be surveyed? Y
- b Is the casing free of degradation or deterioration? Y
- c Does the casing have a functioning weep hole? Y
- d Is the annular space between casings clear of debris and water, or filled with grout/flowback? Y
- e Is the well locked and is the lock in good condition? Y

3 Surface seal

- a Is the well pad in good condition (not cracked or broken)? Y
- b Is the well pad sealed away from the protective casing? Y
- c Is the well pad in complete contact with the protective casing? Y
- d Is the well pad in complete contact with the ground surface and stable? (not undermined) by erosion, animal burrows, and does not move when stepped on) Y
- e Is the pad surface clean (not covered with sediment or debris)? Y

4 Internal casing

- a Does the cap prevent entry of foreign material into the well? Y
- b Is the casing free of kinks or bends, or any obstructions from foreign objects (rocks or debris)? Y
- c Is the well properly vented for equilibration of air pressure? Y
- d Is the survey point clearly marked on the inner casing? Y
- e Is the depth of the well consistent with the original well log? Y
- f Is the casing stable? (or does the PVC move readily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) Y

5 Spurious: Groundwater Wells Only

- a Does well recharge adequately when plugged? Y
- b If dedicated sampling equipment installed, is it in good condition and operated in the approved groundwater plan for the facility? Y
- c Does the well require redevelopment (see flow, turbidity)? Y

6 Based on your professional judgement, is the well construction/location appropriate to (1) achieve the objectives of the Groundwater Monitoring Program and (2) comply with the applicable regulatory requirements? Y

7 Corrective actions as needed, by date:

Signature and Seal of P/PEH responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant, U.S. Gov. Univ. of Calif., ...
 Permit Number: ...
 Well ID: ...
 Date, rain conditions: 7/22/92 ...

	yes	no	na
1 Location/Identification			
a Is the well visible and accessible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, and is well located to observe drainage flow path?)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Casing/Drill Pipe			
a Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of deformation or deterioration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning wear liner?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with clean gravel/sand?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well cased and in the rock in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, wheel burrows, and does not move when stepped on)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or burrs, or any obstructions from foreign objects (such as balling)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the outer casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pad move freely when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling Equipment Wells Only			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and equipped to the equivalent groundwater (use for the facility)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the well require redevelopment (low flow, long)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date.			

Signature and Seal of EPA/DC responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Platt Wood Industrial Park
 Permit Number 11111111111111111111
 Well ID 210
 Date, field conditions 12/2/10

		yes	no	NA
1	Location/Iden/Access			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, not in well in order to obvious drainage flow path)			
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be sectioned?			
b	Is the casing free of degradation or deterioration?			
c	Does the casing have a functioning wrap hole?			
d	Is the annular space between casing sleeve of debris and water, or filled with pea gravel/sand?			
e	Is the well locked and is the lock in good condition?			
3	Surface and			
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
c	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and secure? (not undermined by erosion, animal burrows, and does not move when stepped on)			
e	Is the pad surface clean (not covered with sediment or debris)?			
4	Hydraulic seals			
a	Does the seal prevent entry of foreign material into the well?			
b	Is the casing free of kinks or kinks, or any obstructions from foreign objects (such as rags)?			
c	Is the well properly vented for equilibrium of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
e	Is the depth of the well consistent with the original well log?			
f	Is the casing secure? (or does the casing move easily when disturbed or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5	Monitoring Groundwater Wells Only			
a	Does well recharge adequately when purged?			
b	If equipped sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
c	Does the well require redevelopment (flow line, turbid)?			
6	Based on your professional judgment, is the well construction/operation appropriate to 1) address the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		
7	Corrective actions as needed, by date.			

Signature and Seal of H2O responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Maple Avenue Industrial Court
 Permit Number: _____
 Well ID: 2137
 Date, field conditions: 11/15/06 Sunny, 58-61 degrees, 10-15 mph WNW

	yes	no	no
1 Location/Construction			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
2 Protective Casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
3 Surface Pad			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
4 Casing Seal			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
f	_____	_____	_____
5 Summary: Groundwater Wells Only			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
6 Based on your professional judgement, is the well construction / location appropriate to (1) achieve the objectives of the Groundwater Monitoring Program and (2) comply with the applicable regulatory requirements?			
	_____	_____	_____
7 Corrective actions as needed, by date:			
_____	_____	_____	_____
_____	_____	_____	_____

Signature and Title of MDEQ representative for inspection: _____

Groundwater Monitoring Well Integrity Form

Site Name: Alaska Dept of Transportation
 Permit Number: 10001
 Well ID: 10001
 Date, field conditions: 10/15/10

	yes	no	na
1 Location/identification			
a	is the well visible and accessible?		
b	is the well properly identified with the correct well ID?		
c	is the well in a high traffic area and does the well require protection from traffic?		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		
2 Protective casing			
a	is the protective casing free from upward damage and able to be secured?		
b	is the casing free of degradation or deterioration?		
c	does the casing have a minimum weep hole?		
d	is the annular space between casing outer of casing and water, or filled with pea gravel/sand?		
e	is the well locked and is the lock in good condition?		
3 Surface seal			
a	is the well pad in good condition (not cracked or broken)?		
b	is the well pad sloped away from the protective casing?		
c	is the well pad in complete contact with the protective casing?		
d	is the well (pad) in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and noise etc) (move when stepped on)?		
e	is the pad surface clean (not covered with sediment or debris)?		
4 Inner casing			
a	does the cap prevent entry of foreign material into the well?		
b	is the casing free of holes or trends, or any obstructions from foreign objects (such as debris)?		
c	is the well properly vented for equilibration of air pressure?		
d	is the survey point clearly marked on the inner casing?		
e	is the depth of the well consistent with the original well log?		
f	is the casing stable? (or does the pipe move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)?		
5 Sump and Groundwater Wells etc.			
a	Does well recharge adequately when purged?		
b	if equipped sump and equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		
c	Does the well require intervention (low flow, surging)?		
6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			

7 Corrective actions as needed, by date

Signature and Date of HEMP responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Borden
 Permit Number _____
 Well ID GW-312
 Date, field conditions 2/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW04-3822
 Date, field conditions 2/22/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID G-145
 Date, field conditions 7/20/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Paul Brown
 Permit Number _____
 Well ID GW-41
 Date, field conditions 2/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Peak Broad
 Permit Number _____
 Well ID GW-102
 Date, field conditions 1/2/2004

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Frank Bowers
 Permit Number _____
 Well ID GW-12
 Date, field conditions 7/27/20

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID GW-13
 Date, field conditions 2/20/05

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

7 Corrective actions as needed, by date:

Corrective Action Pending

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Rock Beach
 Permit Number _____
 Well ID GWA-432
 Date, field conditions 2/2/00

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Rock Beach
 Permit Number _____
 Well ID Rock Beach GW-104
 Date, field conditions 2/20/10

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

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Review

Site Name: West Branch Industrial Park
 Permit Number: 210133
 Well ID: 135
 Date, field conditions: 3/28/07 10:00 AM, cloudy, 100% cloud cover

		Yes	no	na
1 Location/Identification				
a	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	<u>Yes</u>		
c	Is the well in a high traffic area and does the well require protection from damage?	<u>Yes</u>		
d	Is the drainage around the well acceptable? (no standing water, and is well located in obvious drainage flow path)	<u>Yes</u>		
2 Protective Casings				
a	Is the protective casing free from equipment damage and able to be retrieved?	<u>Yes</u>		
b	Is the casing free of degradation or deterioration?	<u>Yes</u>		
c	Does the casing have a functioning weep hole?	<u>Yes</u>		
d	Is the annular space between casing clear of debris and water, or filled with pea gravel/sand?	<u>Yes</u>		
e	Is the well sealed and is the log in good condition?	<u>Yes</u>		
3 Surface cap				
a	Is the well cap in good condition (not cracked or broken)?	<u>Yes</u>		
b	Is the well cap sloped away from the protective casing?	<u>Yes</u>		
c	Is the well cap in complete contact with the protective casing?	<u>Yes</u>		
d	Is the well cap in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, etc) does not move when stepped on?	<u>Yes</u>		
e	Is the well surface clean (not covered with sediment or debris)?	<u>Yes</u>		
4 Internal Casing				
a	Does the cap prevent entry of foreign material into the well?	<u>Yes</u>		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as rocks)?	<u>Yes</u>		
c	Is the well properly vented for equilibration of air pressure?	<u>Yes</u>		
d	Is the survey point clearly marked on the inner casing?	<u>Yes</u>		
e	Is the depth of the well consistent with the original well log?	<u>Yes</u>		
f	Is the casing stable? (or does the well move visibly when touched or can it be taken apart by hand) due to lack of grout or use of slip couplings in construction?	<u>Yes</u>		
5 Sampling Groundwater With Care				
a	Does well recharge adequately when pumped?	<u>Yes</u>		
b	If dedicated sampling equipment installed, is it in good condition and specific to the approved groundwater parameters for the facility?	<u>Yes</u>		
c	Does the well require recirculation (low flow, surging)?	<u>Yes</u>		
6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<u>Yes</u>		
7 Corrective actions as needed, by date.				

Signature and Seal of PE/PA responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: USAMC, Brooke Army Medical Center
 Permit Number: _____
 Well ID: 10011-1011
 Date, field conditions: 7/23/09 cloudy to variable cloudy, 80-90F, 60

	Y/N	NO	Y/N
1 Location/Access			
a	Is the well visible and accessible?		
b	Is the well properly identified with the correct well ID?		
c	Is the well in a high traffic area and does the well require protection from traffic?		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		
2 Protective Casings			
a	Is the protective casing free from equipment damage and able to be secured?		
b	Is the casing free of degradation or deterioration?		
c	Does the casing have a functioning weep hole?		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		
e	Is the well cased and is the log in good continuity?		
3 Surface Seal			
a	Is the well end in good condition (not cracked or broken)?		
b	Is the well end kept away from the protective casing?		
c	Is the well pad in complete contact with the protective casing?		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		
e	Is the pad drainage clean (not covered with sediment or debris)?		
4 Internal Casing			
a	Does the log prevent entry of foreign material into the well?		
b	Is the casing free of kinked bands, or any obstructions from foreign objects (such as ballers)?		
c	Is the well properly vented for equilibration of air pressure?		
d	Is the survey point clearly marked on the inner casing?		
e	Is the depth of the well consistent with the internal well log?		
f	Is the casing stable? (or does the log move easily when structure of log is taken apart by hand due to lack of grout or use of slip couplings in construction)		
5 Groundwater Well Utility:			
a	Does WAT exchange adequately when purged?		
b	If dedicated sampling equipment installed, is it in good condition and operated in the approved groundwater plan for the facility?		
c	Does the well require redevelopment (flow flow, surging)?		
6 Based on your professional judgement, is the well construction/condition appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Corrective actions are needed, by date:			

Signature and Seal of HSPD responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: YORK BUSINESS LAND CO. (SOCI)
 Permit Number: _____
 Well ID: GW-01
 Date, Site Conditions: 12/15/21 Sunny to partially cloudy, temp 45°

	yes	no	NA
1 Location/Installation			
a	Is the well visible and accessible?		
b	Is the well properly identified with the correct well ID?		
c	Is the well in a high traffic area and does the well require protection from traffic?		
d	Is the drainage around the well acceptable? (no standing water, and the well located in obvious drainage flow path)		
2 Protective Casing			
a	Is the protective casing free from apparent damage and able to be accessed?		
b	Is the casing free of degradation or deterioration?		
c	Does the casing have a functioning wrap here?		
d	Is the annular space between casings clear of debris and water, or filled with grout (sealant)?		
e	Is the well locked and is the lock in good condition?		
3 Wellhead			
a	Is the well head in good condition (not cracked or broken)?		
b	Is the well head slanted away from the protective casing?		
c	Is the well head in complete contact with the protective casing?		
d	Is the well head in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		
e	Is the head surface clean (not covered with sediment or debris)?		
4 Internal Casing			
a	Does the cap prevent entry of foreign material into the well?		
b	Is the casing free of cracks or bonds, or any obstructions from foreign objects (e.g.) or ballers)?		
c	Is the well properly vented for equalization of air pressure?		
d	Is the venting point clearly marked on the inner casing?		
e	Is the depth of the well consistent with the original well log?		
f	Is the casing stable? (or does the well move visibly when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		
5 Specifics: Groundwater Wells Only			
a	Does well recharge adequately when pumped?		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		
c	Does the well require redevelopment (surge flow, surges)?		
6 Based on your professional judgement, is the well construction/location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Corrective actions as needed, by date:			

Signature and Stamp of PEPCO representative for inspection

Groundwater Monitoring Well Integrity Form

Site Name: West Sussex Council, Lewes
 Form Number: GW-INT-1
 Well ID: GW101
 Date, field conditions: 22/01/2015 clear, dry, sunny, 10°C, wind 4-5

		YES	NO	NA
1 Location/Identification				
a	Is the well visible and unobscured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from impact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, no leakage around or through drainage, no seepage)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be accessed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface seal				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by vehicles, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or kinks, or any obstructions from foreign objects (such as rags)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the weep hole clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the PVC change easily when touched or hit if the taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Overall Groundwater Well Log				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment is used, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require remedial work (e.g. liner, turbid)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction/location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and title of PE/PA responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: 21001 Keweenaw Island Wildlife Refuge
 Permit Number: _____
 Well ID: 21001-01
 Date field completed: 11/15/2011

		yes	no	NA
1 Location/Identification				
a	Is the well visible and accessible?	___	___	___
b	Is the well properly identified with the correct well ID?	___	___	___
c	Is the well in a high traffic area and does the well require protection from traffic?	___	___	___
d	Is the drainage around the well acceptable? (no standing water, not in well located in obvious drainage flow path)	___	___	___
2 Protective Casings				
a	Is the protective casing free from apparent damage and able to be accessed?	___	___	___
b	Is the casing free of discoloration or deterioration?	___	___	___
c	Does the casing have a functioning weep hole?	___	___	___
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	___	___	___
e	Is the well cased and is the rock in good condition?	___	___	___
3 Wellhead and				
a	Is the well head in good condition (not cracked or broken)?	___	___	___
b	Is the well head fitted away from the protective casing?	___	___	___
c	Is the well head in complete contact with the protective casing?	___	___	___
d	Is the well head in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	___	___	___
e	Is the head surface clean (not covered with sediment or debris)?	___	___	___
4 Interior Casing				
a	Does the cap prevent entry of foreign material into the well?	___	___	___
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	___	___	___
c	Is the well properly vented for equilibration of air pressure?	___	___	___
d	Is the survey point clearly marked on the inner casing?	___	___	___
e	Is the depth of the well consistent with one original well log?	___	___	___
f	Is the casing stable? (or does the eye move visibly when touched or can it be taken apart by hand due to lack of grout or use of air couplings in construction)	___	___	___
5 Sampling: Groundwater Wells Only				
a	Does well operate adequately when purged?	___	___	___
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	___	___	___
c	Does the well permit redevelopment (low flow, turbid)?	___	___	___
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		___	___	___
7 Corrective actions as required, by date				
		___	___	___

Signature and Seal of PCEP/PCF responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Evans Wood Industrial Plant
 Permit Number: 13036
 Well ID: 13036-001
 Date, time conditions: 1/27/00 10:00 AM

		yes	no	no
1 Location/Identification				
a	Is the well stable and accessible?			
b	Is the well properly identified with the correct well ID?			
c	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be accessed?			
b	Is the casing free of degradation or deterioration?			
c	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pre-grout/grout?			
e	Is the well locked and is the lock in good condition?			
3 Surface seal				
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
c	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by weevils, animal burrows, soil slumps and ruts when stepped on)			
e	Is the pad surface clean (not covered with sediment or debris)?			
4 Interior casing				
a	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bumps, or any obstructions to the foreign objects (such as raptors)?			
c	Is the well properly vented for equilibration of air pressure?			
d	Is the safety pin/cap clearly marked on the inner casing?			
e	Is the repair of the well consistent with the original well log?			
f	Is the casing stable? (or does the pad move easily when locked or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 Sampling Groundwater Vials Only				
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
c	Does the well require maintenance (low flow, turbid)?			
6 Based on your professional judgment, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
7 Corrective actions as needed, by date:				

Signature and Date of M/E/P/G responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant 2000 Landfill EQM
 Point Number: _____
 Well ID: 1001-1002
 Date, field conditions: 2/22/06 during the quarterly check, weather 62°

	Yes	No	NA
1 Location/Identification			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
2 Protective Casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
3 Wellhead			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
4 Interior casing			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
d	_____	_____	_____
e	_____	_____	_____
f	_____	_____	_____
5 Casing Groundwater Vlogs Only:			
a	_____	_____	_____
b	_____	_____	_____
c	_____	_____	_____
6 Based on your professional judgment, is the well construction/location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	_____	_____	_____
7 Corrective actions as needed, by date			
_____	_____	_____	_____
_____	_____	_____	_____

Signature and Date of MFMQ responsible for inspection

APPENDIX B
HISTORICAL GROUNDWATER MONITORING RESULTS
AND STATISTICAL RESULTS

GROUNDWATER STATS CONSULTING



August 26, 2020

Southern Company Services
Attn: Ms. Lauren Petty
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Bowen Landfill Cells 1 & 2 - Bedrock and Overburden Wells
March 2020 Event - Statistical Analysis

Dear Ms. Petty,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the March 2020 sample event for Georgia Power Company's Plant Bowen Landfill Cells 1 & 2. The analysis complies with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D, the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the USEPA Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's CCR Appendix III parameters, in addition to 16 parameters in accordance with the Georgia EPD's Solid Waste Permit. The monitoring well network, as provided by Southern Company Services, consists of the following:

Bedrock Wells:

- **Upgradient wells:** GWA-1, GWA-2, GWA-2R, GWA-4RZ, GWA-50R
- **Downgradient wells:** GWC-10R, GWC-11R, GWC-13R_13RZ, GWC-15R, GWC-6RZ, GWC-8RR

Overburden Wells:

- **Upgradient wells:** GWA-3, GWA-50
- **Downgradient wells:** GWC-10, GWC-11, GWC-12, GWC-13, GWC-14_14Z, GWC-15_15Z, GWC-5, GWC-6, GWC-7Z, GWC-8Z, GWC-9

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The following constituents are evaluated:

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. Due to varying detection limits for cobalt, the reporting limit of 0.01 mg/L was substituted to be consistent with previous analyses; and a reported nondetect value of <0.1 mg/L was flagged as an outlier for selenium in well GWC-13 to maintain historical nondetect values of <0.01 mg/L. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Constituents:

Bedrock Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all 16 parameters)
- # Constituents: 16
- # Downgradient wells: 6

Overburden Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-3 resample plan (all 16 parameters)
- # Constituents: 16
- # Downgradient wells: 11

CCR Appendix III Constituents:

Bedrock & Overburden Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (calcium, sulfate, TDS)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, chloride, fluoride, pH)
- # Constituents: 7
- # Downgradient wells: 17

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

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

- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Screening Summary Georgia EPD Constituents – Conducted in August 2019

Outlier and Trend Testing – Bedrock & Overburden Wells

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. The results of those findings were submitted with the screening report and a summary of the flagged values follows this letter.

For Bedrock and Overburden wells, the Tukey box plot method identified several outliers. When the most recent values were identified as outliers, values were not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers. Due to

changing reporting limits for many constituents, when the nondetects were replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) required flagging as outliers because they were much higher than current reporting limits.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported nondetects. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections. The results of those findings were submitted with the screening report.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. A summary of the trend analyses follows this letter.

Several statistically significant decreasing trends were noted. No statistically significant increasing trends were identified except for barium in 3 bedrock wells and in 1 overburden well. The magnitudes of the majority of these trends were low relative to the average

concentrations and, therefore, required no adjustments to the records. For the following Bedrock well/constituent pairs, however, adjustments were required for statistically significant decreasing trending data in order to minimize the variance within each well and utilize more recent data that do not contain trends and that are representative of present-day groundwater quality conditions: chromium in well GWC-11R; and copper and nickel in upgradient well GWA-50R.

Note that, due to more recent higher measurements that are elevated above those observed in the upgradient well data, it is recommended that the trend test be used in lieu of prediction limits for barium at well GWC-13R_13RZ. If research shows that these concentrations are representative of natural spatial variation rather than resulting from the unit, intrawell prediction limits may be used to statistically analyze future compliance observations. A summary of the background data ranges used for these special cases follows this letter.

Determination of Spatial Variation – Bedrock & Overburden

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. A summary of the findings was submitted with the screening report.

For Bedrock wells, the ANOVA identified variation among upgradient well data for: antimony, arsenic, barium, chromium, lead, nickel, selenium and silver. No variation was identified for beryllium, cadmium, cobalt, copper, mercury, thallium, vanadium and zinc.

For Overburden wells, the ANOVA identified variation among upgradient well data for: barium, cobalt, copper, nickel, silver and zinc. The ANOVA did not identify variation for cadmium, chromium, lead, mercury and vanadium. The ANOVA could not test the following constituents because the data had no variation among the upgradient wells: arsenic, thallium, beryllium and selenium.

Where variation is not identified, this suggests that interwell analysis would be the most appropriate statistical method for these constituents. However, because this is a lined landfill with pre-waste data showing that metals occur naturally in low level detections, and no records required any adjustments due to trending data, intrawell methods are recommended as the primary statistical method for all detected well/constituent pairs.

Background Update CCR Appendix III Constituents – Conducted in March 2020

Prior to updating background data, Tukey's outlier test and visual screening were used to evaluate data through September 2019. Tukey's test was used for all wells for the intrawell parameters and for only the upgradient wells for the interwell parameters. The results of this test were submitted with the screening report. High values for fluoride were noted through visual screening and those values were flagged. Although Tukey's test noted several potential outliers in downgradient wells for intrawell parameters, these values were not flagged as they appeared to be representative of natural variation. As mentioned above, any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of all flagged values follows this report.

For constituents requiring intrawell prediction limits (calcium, sulfate and TDS), the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through August 2017 to the new compliance samples at each well through September 2019. If the medians of the two groups are not significantly different at the 99% confidence level, background data are typically updated to include the newer compliance data. Statistically significant differences were found between the two groups for the well/constituent pairs for calcium in upgradient well GWA-3, and sulfate in upgradient well GWA-3 and downgradient wells GWC-15R, GWC-5, and GWC-8Z.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. The following cases with statistically significant Mann-Whitney results were updated because the newer data had a lower median or the newer data were similar in concentration to portions of the historical data: calcium in well GWA-3 and sulfate in wells GWA-3, GWC-5, and GWC-8Z.

Although sulfate in well GWC-15R showed an increase in median concentrations, the magnitude of the increase is minimal relative to other wells for sulfate, and was therefore, updated with newer data. The results of this test were submitted with the screening report.

Evaluation of Georgia EPD Constituents – March 2020

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed concentrations upgradient for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan for Bedrock wells and a 1-of-3 resample plan for Overburden wells, were constructed using all available data, except for the cases mentioned above, within each well with detections through September 2018 (Figures D and E, respectively). Future compliance data will be compared to these intrawell background limits during each subsequent semi-annual sampling event. As previously discussed, no statistical analyses were included for well/constituent pairs with 100% nondetects.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. The 1-of-3 plan allows collection of up to two samples. When all resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. No statistical exceedances were noted in any of the Bedrock or Overburden downgradient wells; therefore, no resampling is required. Statistical exceedances were noted for barium in upgradient Bedrock wells GWA-2R and GWA-4RZ. When exceedances are noted upgradient of the facility, it may be an indication that groundwater quality is beginning to change naturally. Summaries of the Georgia EPD prediction limits follow this report.

While there were no prediction limit exceedances in any of the downgradient wells, should they occur in the future, data will be further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. Based on the recommendation of previous screenings, a Sen's Slope/Mann-Kendall trend test was used in lieu of prediction limits for barium in well GWC-13R_13RZ and noted a statistically significant increasing trend. A summary of the trend test results follows this letter (Figure F).

Evaluation of Appendix III Parameters – March 2020

For calcium, sulfate, and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through September 2019 (Figure G). The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for calcium in downgradient wells GWC-5 and GWC-6, and sulfate in well GWC-14_14Z.

For boron, chloride, fluoride, and pH, interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure H). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for chloride in wells GWC-10R, GWC-13, GWC-13R_13RZ, and GWC-14_14Z; the upper limit for pH in wells GWC-15_15Z and GWC-8RR; and the lower limit for pH in well GWC-9. Summaries of both intrawell and interwell prediction limits follow this report.

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents (Figure I). A statistically significant increasing trend was noted for chloride in downgradient well GWC-14_14Z. Statistically significant decreasing trends were noted for calcium, pH, and sulfate in upgradient well GWA-3, and sulfate in upgradient well GWA-1. A summary of the trend test results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Bowen Landfill Cells 1 & 2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

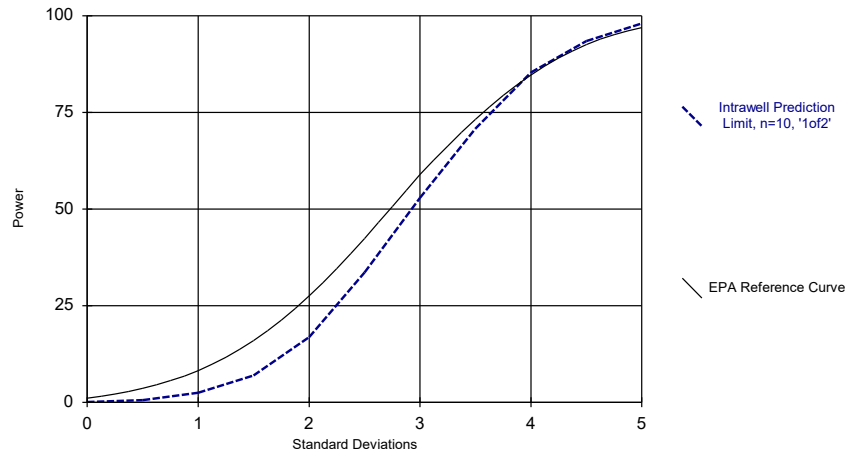


Andrew T. Collins
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

Bedrock Wells Power Curve

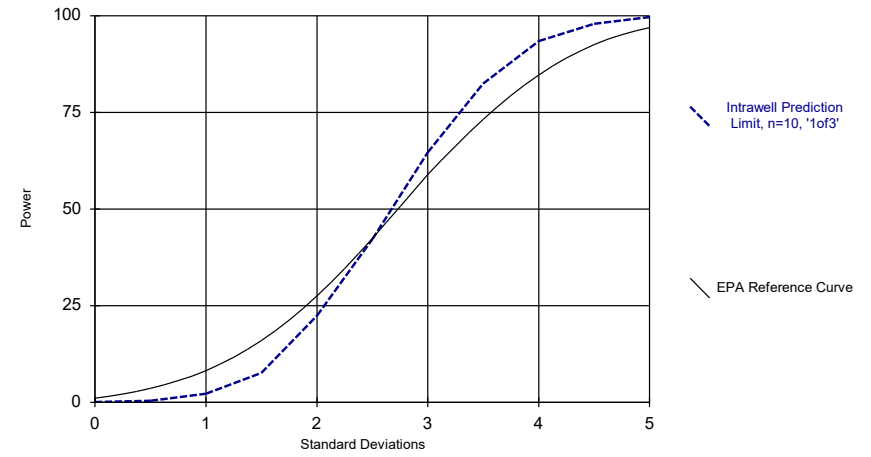


Kappa = 2.945, based on 6 compliance wells and 16 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/14/2020 3:04 PM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Overburden Wells Power Curve

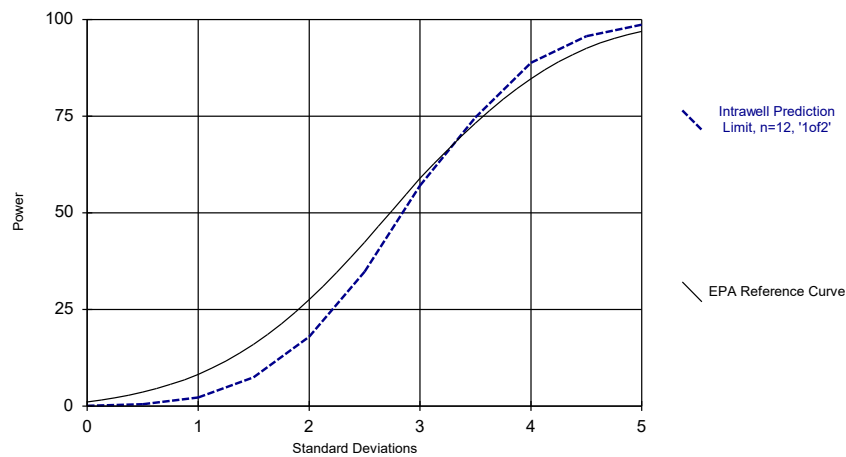


Kappa = 2.329, based on 11 compliance wells and 16 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/14/2020 3:05 PM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Appendix III Intrawell Power Curve

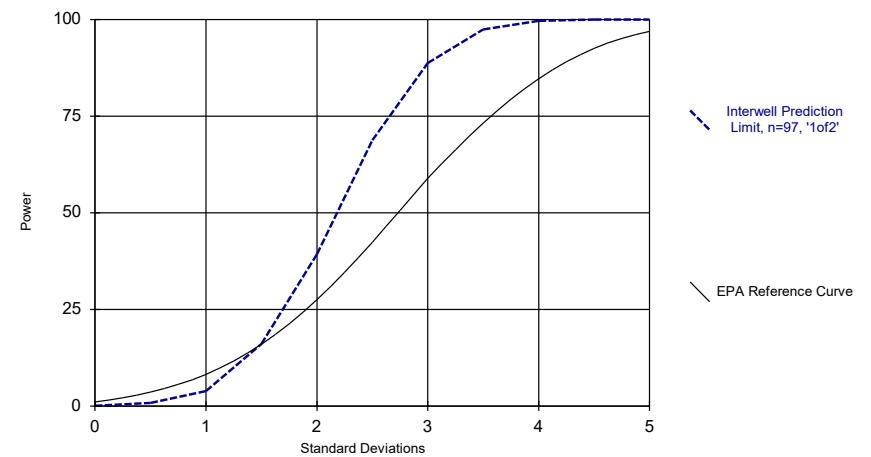


Kappa = 2.824, based on 17 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/14/2020 3:06 PM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Appendix III Interwell Power Curve



Kappa = 2.094, based on 17 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/14/2020 3:07 PM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

100% Nondetect Well-Constituent Pairs Overburden Wells

Date: 4/14/2020 10:41 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Antimony (mg/L)

GWC-10, GWC-12, GWC-13, GWC-8Z

Arsenic (mg/L)

GWA-3, GWA-50

Beryllium (mg/L)

GWA-3, GWA-50, GWC-11, GWC-12, GWC-15_15Z, GWC-7Z

Boron (mg/L)

GWC-12

Cadmium (mg/L)

GWA-3, GWC-10, GWC-11, GWC-13, GWC-15_15Z, GWC-9

Chromium (mg/L)

GWC-7Z

Cobalt (mg/L)

GWA-50

Fluoride (mg/L)

GWA-3

Lead (mg/L)

GWA-3, GWC-10, GWC-12, GWC-15_15Z, GWC-5

Mercury (mg/L)

GWA-3, GWC-10, GWC-14_14Z, GWC-7Z, GWC-8Z, GWC-9

Selenium (mg/L)

GWA-3, GWA-50, GWC-10, GWC-11, GWC-12, GWC-14_14Z, GWC-15_15Z, GWC-6, GWC-7Z, GWC-8Z

Silver (mg/L)

GWA-3, GWC-10, GWC-11, GWC-13, GWC-14_14Z, GWC-15_15Z, GWC-5, GWC-6, GWC-7Z, GWC-8Z, GWC-9

Thallium (mg/L)

GWA-3, GWA-50, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14_14Z, GWC-5, GWC-7Z, GWC-9

Vanadium (mg/L)

GWA-50, GWC-7Z

Zinc (mg/L)

GWC-7Z

100% Nondetect Well-Constituent Pairs Bedrock Wells

Date: 4/14/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Antimony (mg/L)

GWA-2, GWA-50R

Arsenic (mg/L)

GWA-2, GWA-50R, GWC-10R, GWC-6RZ

Beryllium (mg/L)

GWA-2, GWA-2R, GWA-4RZ, GWC-10R, GWC-11R, GWC-13R_13RZ, GWC-15R

Cadmium (mg/L)

GWA-2, GWA-2R, GWA-4RZ, GWA-50R, GWC-13R_13RZ, GWC-6RZ, GWC-8RR

Chromium (mg/L)

GWA-4RZ

Cobalt (mg/L)

GWA-2R, GWC-10R, GWC-6RZ

Copper (mg/L)

GWC-6RZ

Lead (mg/L)

GWA-2R, GWC-10R, GWC-11R

Mercury (mg/L)

GWA-1, GWA-2R, GWA-4RZ, GWA-50R, GWC-10R, GWC-11R, GWC-6RZ

Nickel (mg/L)

GWA-4RZ, GWC-6RZ

Selenium (mg/L)

GWA-1, GWA-2R, GWA-4RZ, GWA-50R, GWC-10R, GWC-11R, GWC-6RZ, GWC-8RR

Silver (mg/L)

GWA-1, GWA-2, GWA-2R, GWA-4RZ, GWC-10R, GWC-11R, GWC-15R, GWC-6RZ, GWC-8RR

Thallium (mg/L)

GWA-1, GWA-2, GWA-4RZ, GWA-50R, GWC-15R, GWC-6RZ, GWC-8RR

Vanadium (mg/L)

GWA-4RZ, GWC-10R, GWC-15R, GWC-6RZ

Zinc (mg/L)

GWA-4RZ

Date Ranges

Date: 4/7/2020 8:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Chromium (mg/L)

GWC-11R background:4/13/2011-9/18/2018

Copper (mg/L)

GWA-50R background:4/22/2014-9/18/2018

Nickel (mg/L)

GWA-50R background:4/22/2014-9/18/2018

Bedrock Wells Intrawell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

<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>Bg. Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-2R	0.02539	n/a	3/11/2020	0.027	Yes	30	0.2153	0.03537	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/12/2020	0.053	Yes	11	0.02799	0.002333	0	None	0.0005486	Param Intra 1 of 2

Bedrock Wells Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-1	0.0097	n/a	3/11/2020	0.00079	No	30	n/a	n/a	50	n/a	0.002008	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-2R	0.0081	n/a	3/11/2020	0.002	No	30	n/a	n/a	56.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4RZ	0.003	n/a	3/12/2020	0.0017	No	11	n/a	n/a	63.64	n/a	0.01276	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10R	0.003	n/a	3/12/2020	0.003ND	No	31	n/a	n/a	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/12/2020	0.001	No	30	n/a	n/a	83.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13R_13RZ	0.00447	n/a	3/17/2020	0.0009	No	26	n/a	n/a	61.54	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-15R	0.0106	n/a	3/13/2020	0.00056	No	32	n/a	n/a	53.13	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6RZ	0.003	n/a	3/12/2020	0.0011	No	14	n/a	n/a	85.71	n/a	0.008612	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8RR	0.003	n/a	3/12/2020	0.00043	No	20	n/a	n/a	85	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-1	0.005	n/a	3/11/2020	0.00088	No	32	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2R	0.0056	n/a	3/11/2020	0.00044	No	32	n/a	n/a	78.13	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4RZ	0.002431	n/a	3/12/2020	0.0033	No	11	0.0969	0.01324	27.27	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Arsenic (mg/L)	GWC-11R	0.0077	n/a	3/12/2020	0.0012	No	32	n/a	n/a	50	n/a	0.001803	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-13R_13RZ	0.0066	n/a	3/17/2020	0.00067	No	30	n/a	n/a	66.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15R	0.005	n/a	3/13/2020	0.00047	No	32	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-8RR	0.005	n/a	3/12/2020	0.00039	No	20	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.04054	n/a	3/11/2020	0.016	No	31	0.1451	0.02538	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2	0.04842	n/a	3/11/2020	0.035	No	30	0.02121	0.01224	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2R	0.02539	n/a	3/11/2020	0.027	Yes	30	0.2153	0.03537	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/12/2020	0.053	Yes	11	0.02799	0.002333	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-50R	0.02185	n/a	3/11/2020	0.0095	No	23	0.01499	0.002959	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-10R	0.03543	n/a	3/12/2020	0.028	No	32	0.02388	0.005231	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-11R	0.02192	n/a	3/12/2020	0.021	No	32	0.01259	0.004227	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-15R	0.03156	n/a	3/13/2020	0.02	No	31	0.0244	0.003233	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-6RZ	0.01917	n/a	3/12/2020	0.0072	No	15	0.009456	0.003803	6.667	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-8RR	0.024	n/a	3/12/2020	0.014	No	20	n/a	n/a	0	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-1	0.003	n/a	3/11/2020	0.003ND	No	14	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-50R	0.003	n/a	3/11/2020	0.003ND	No	14	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-6RZ	0.003	n/a	3/12/2020	0.000093	No	15	n/a	n/a	80	n/a	0.007533	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-8RR	0.003	n/a	3/12/2020	0.003ND	No	14	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-1	0.001	n/a	3/11/2020	0.001ND	No	32	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10R	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-11R	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-15R	0.001	n/a	3/13/2020	0.001ND	No	31	n/a	n/a	87.1	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.038	n/a	3/11/2020	0.0012	No	30	n/a	n/a	70	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.0025	No	29	n/a	n/a	65.52	n/a	0.002172	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2R	0.012	n/a	3/11/2020	0.0042	No	31	n/a	n/a	83.87	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	61.54	n/a	0.002667	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.01ND	No	30	n/a	n/a	80	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11R	0.02073	n/a	3/12/2020	0.0042	No	21	0.009791	0.004649	4.762	None	0.0005486	Param Intra 1 of 2
Chromium (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.002	No	31	n/a	n/a	74.19	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15R	0.014	n/a	3/13/2020	0.0011	No	31	n/a	n/a	64.52	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6RZ	0.01	n/a	3/12/2020	0.0028	No	15	n/a	n/a	33.33	n/a	0.007533	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.0031	No	19	n/a	n/a	68.42	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/11/2020	0.00037	No	32	n/a	n/a	87.5	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.013	n/a	3/11/2020	0.01ND	No	32	n/a	n/a	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4RZ	0.02221	n/a	3/12/2020	0.013	No	11	0.0078	0.005078	9.091	None	0.0005486	Param Intra 1 of 2
Cobalt (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	76.92	n/a	0.002667	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	31	n/a	n/a	93.55	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	20	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-1	0.025	n/a	3/11/2020	0.025ND	No	27	n/a	n/a	55.56	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	3/11/2020	0.0002	No	27	n/a	n/a	70.37	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2R	0.025	n/a	3/11/2020	0.0011	No	27	n/a	n/a	66.67	n/a	0.002502	NP Intra (NDs) 1 of 2

Bedrock Wells Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Copper (mg/L)	GWA-4RZ	0.025	n/a	3/12/2020	0.0002	No	4	n/a	n/a	75	n/a	0.06138	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-50R	0.01777	n/a	3/11/2020	0.0035	No	10	0.005944	0.004014	0	None	0.0005486	Param Intra 1 of 2
Copper (mg/L)	GWC-10R	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	81.48	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-11R	0.025	n/a	3/12/2020	0.00032	No	27	n/a	n/a	74.07	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-13R_13RZ	0.025	n/a	3/17/2020	0.00045	No	26	n/a	n/a	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-15R	0.025	n/a	3/13/2020	0.00029	No	27	n/a	n/a	70.37	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8RR	0.025	n/a	3/12/2020	0.025ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-1	0.005	n/a	3/11/2020	0.005ND	No	32	n/a	n/a	81.25	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.005	n/a	3/11/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-4RZ	0.005	n/a	3/12/2020	0.005ND	No	11	n/a	n/a	90.91	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-50R	0.005	n/a	3/11/2020	0.005ND	No	26	n/a	n/a	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13R_13RZ	0.005	n/a	3/17/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15R	0.005	n/a	3/13/2020	0.00037	No	32	n/a	n/a	81.25	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6RZ	0.005	n/a	3/12/2020	0.00007	No	15	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8RR	0.005	n/a	3/12/2020	0.000056	No	20	n/a	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0005	n/a	3/11/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-13R_13RZ	0.0005	n/a	3/17/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-15R	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-8RR	0.0005	n/a	3/12/2020	0.0005ND	No	20	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.024	n/a	3/11/2020	0.00068	No	26	n/a	n/a	73.08	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.02	n/a	3/11/2020	0.0014	No	25	n/a	n/a	68	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2R	0.01	n/a	3/11/2020	0.002	No	26	n/a	n/a	84.62	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-50R	0.01209	n/a	3/11/2020	0.001	No	10	0.05305	0.01932	10	None	0.0005486	Param Intra 1 of 2
Nickel (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.00043	No	26	n/a	n/a	88.46	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	92.59	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.00082	No	25	n/a	n/a	80	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.00072	No	24	n/a	n/a	75	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.0021	No	32	n/a	n/a	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	32	n/a	n/a	87.5	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-50R	0.004299	n/a	3/11/2020	0.0013	No	21	0.002202	0.0008907	38.1	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Silver (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	26	n/a	n/a	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2R	0.001	n/a	3/11/2020	0.001ND	No	13	n/a	n/a	92.31	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-10R	0.001	n/a	3/12/2020	0.000054	No	12	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-11R	0.001	n/a	3/12/2020	0.001ND	No	12	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-13R_13RZ	0.001	n/a	3/17/2020	0.001ND	No	12	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-1	0.01	n/a	3/11/2020	0.01ND	No	27	n/a	n/a	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2R	0.01	n/a	3/11/2020	0.00084	No	27	n/a	n/a	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	21	n/a	n/a	66.67	n/a	0.003999	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	26	n/a	n/a	46.15	n/a	0.002667	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-13R_13RZ	0.011	n/a	3/17/2020	0.01ND	No	24	n/a	n/a	62.5	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-1	0.01366	n/a	3/11/2020	0.0035	No	24	0.005745	0.003444	29.17	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2	0.0199	n/a	3/11/2020	0.0028	No	25	0.06488	0.03341	48	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2R	0.01285	n/a	3/11/2020	0.0038	No	26	0.000044540	0.00005316	46.15	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-50R	0.02139	n/a	3/11/2020	0.0033	No	17	0.008728	0.005133	23.53	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.0027	No	27	n/a	n/a	40.74	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-11R	0.017	n/a	3/12/2020	0.0053	No	26	n/a	n/a	50	n/a	0.002667	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13R_13RZ	0.01057	n/a	3/17/2020	0.0057	No	23	0.06716	0.0154	30.43	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-15R	0.01063	n/a	3/13/2020	0.0057	No	25	0.004906	0.002508	20	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-6RZ	0.01081	n/a	3/12/2020	0.0032	No	10	0.05354	0.01713	40	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-8RR	0.01242	n/a	3/12/2020	0.002	No	15	0.004691	0.003024	46.67	Kaplan-Meier	0.0005486	Param Intra 1 of 2

Overburden Wells Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-3	0.0068	n/a	3/11/2020	0.0045	No	32	n/a	n/a	68.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-50	0.003	n/a	3/11/2020	0.0005	No	26	n/a	n/a	92.31	n/a	0.0002803	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.003	n/a	3/12/2020	0.0013	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-14_14Z	0.005	n/a	3/13/2020	0.00053	No	32	n/a	n/a	87.5	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-15_15Z	0.0053	n/a	3/13/2020	0.003ND	No	31	n/a	n/a	83.87	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.003	n/a	3/16/2020	0.00031	No	31	n/a	n/a	96.77	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.0035	n/a	3/12/2020	0.00052	No	32	n/a	n/a	93.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-7Z	0.003	n/a	3/12/2020	0.00066	No	11	n/a	n/a	90.91	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-9	0.003	n/a	3/12/2020	0.003ND	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-10	0.0079	n/a	3/12/2020	0.005ND	No	31	n/a	n/a	90.32	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/12/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.012	n/a	3/12/2020	0.0053	No	31	n/a	n/a	29.03	n/a	0.0001701	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-13	0.0096	n/a	3/13/2020	0.00096	No	32	n/a	n/a	78.13	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14_14Z	0.0079	n/a	3/13/2020	0.005ND	No	31	n/a	n/a	87.1	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-15_15Z	0.0077	n/a	3/13/2020	0.00052	No	32	n/a	n/a	75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.005	n/a	3/16/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.005	n/a	3/12/2020	0.00055	No	31	n/a	n/a	93.55	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7Z	0.003663	n/a	3/12/2020	0.00044	No	11	0.002522	0.0005101	18.18	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Arsenic (mg/L)	GWC-8Z	0.005	n/a	3/16/2020	0.005ND	No	15	n/a	n/a	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0086	n/a	3/12/2020	0.005ND	No	31	n/a	n/a	93.55	n/a	0.0001701	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-3	0.007921	n/a	3/11/2020	0.0041	No	23	0.005815	0.001177	4.348	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWA-50	0.01571	n/a	3/11/2020	0.0077	No	25	0.009848	0.003336	4	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-10	0.02966	n/a	3/12/2020	0.026	No	29	-4.024	0.2943	0	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-11	0.036	n/a	3/12/2020	0.0086	No	31	n/a	n/a	3.226	n/a	0.0001701	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-12	0.07	n/a	3/12/2020	0.023	No	28	n/a	n/a	0	n/a	0.0002317	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-13	0.04922	n/a	3/13/2020	0.023	No	30	0.02845	0.01216	0	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-14_14Z	0.03815	n/a	3/13/2020	0.017	No	21	0.2446	0.05056	9.524	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-15_15Z	0.01987	n/a	3/13/2020	0.014	No	31	0.0106	0.00545	3.226	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-5	0.02443	n/a	3/16/2020	0.024	No	31	0.01764	0.003992	0	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.02458	n/a	3/12/2020	0.0075	No	29	0.1134	0.02526	3.448	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-7Z	0.03969	n/a	3/12/2020	0.022	No	11	0.0267	0.005812	0	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-8Z	0.05253	n/a	3/16/2020	0.027	No	15	0.1761	0.02662	0	None	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-9	0.04876	n/a	3/12/2020	0.044	No	28	0.03862	0.005872	0	None	0.0002993	Param Intra 1 of 3
Beryllium (mg/L)	GWC-10	0.003	n/a	3/12/2020	0.00017	No	14	n/a	n/a	71.43	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-13	0.003	n/a	3/13/2020	0.00008	No	14	n/a	n/a	57.14	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14_14Z	0.003	n/a	3/13/2020	0.00016	No	14	n/a	n/a	78.57	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-5	0.003	n/a	3/16/2020	0.00048	No	14	n/a	n/a	14.29	n/a	0.0016	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-6	0.003	n/a	3/12/2020	0.003ND	No	14	n/a	n/a	78.57	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8Z	0.003	n/a	3/16/2020	0.003ND	No	15	n/a	n/a	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.003	n/a	3/12/2020	0.00022	No	14	n/a	n/a	35.71	n/a	0.0016	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-50	0.001	n/a	3/11/2020	0.001ND	No	26	n/a	n/a	96.15	n/a	0.0002803	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-12	0.001	n/a	3/12/2020	0.00089	No	32	n/a	n/a	68.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14_14Z	0.001	n/a	3/13/2020	0.001ND	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-5	0.001	n/a	3/16/2020	0.001ND	No	31	n/a	n/a	80.65	n/a	0.0001701	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-6	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	93.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-7Z	0.001	n/a	3/12/2020	0.001ND	No	11	n/a	n/a	90.91	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8Z	0.001	n/a	3/16/2020	0.001ND	No	15	n/a	n/a	86.67	n/a	0.001313	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3	0.027	n/a	3/11/2020	0.00095	No	29	n/a	n/a	86.21	n/a	0.0002074	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.0011	No	26	n/a	n/a	88.46	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.042	n/a	3/12/2020	0.00047	No	32	n/a	n/a	46.88	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-11	0.025	n/a	3/12/2020	0.00084	No	32	n/a	n/a	28.13	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.039	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	71.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.02017	n/a	3/13/2020	0.0054	No	32	-4.769	0.511	0	None	0.0002993	Param Intra 1 of 3
Chromium (mg/L)	GWC-14_14Z	0.01856	n/a	3/13/2020	0.00093	No	31	0.07182	0.03787	25.81	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Chromium (mg/L)	GWC-15_15Z	0.027	n/a	3/13/2020	0.0012	No	26	n/a	n/a	57.69	n/a	0.0002803	NP Intra (NDs) 1 of 3

Overburden Wells Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq	N	Bq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Chromium (mg/L)	GWC-5	0.032	n/a	3/16/2020	0.00078	No	32	n/a	n/a	53.13	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.027	n/a	3/12/2020	0.0034	No	31	n/a	n/a	32.26	n/a	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.0015	No	14	n/a	n/a	42.86	n/a	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-9	0.018	n/a	3/12/2020	0.00045	No	30	n/a	n/a	80	n/a	n/a	n/a	0.0001831	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3	0.01	n/a	3/11/2020	0.00041	No	32	n/a	n/a	37.5	n/a	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-10	0.013	n/a	3/12/2020	0.0017	No	32	n/a	n/a	65.63	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-11	0.016	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	78.13	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.0031	No	31	n/a	n/a	9.677	n/a	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-13	0.011	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-14_14Z	0.011	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	78.13	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-15_15Z	0.01	n/a	3/13/2020	0.01ND	No	31	n/a	n/a	93.55	n/a	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.00031	No	32	n/a	n/a	53.13	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-6	0.01	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-7Z	0.001751	n/a	3/12/2020	0.00031	No	10	0.02867	0.005656	0	None	0	None	0.0002993	Param Intra 1 of 3
Cobalt (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.01ND	No	15	n/a	n/a	80	n/a	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.00044	No	31	n/a	n/a	70.97	n/a	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-3	0.0509	n/a	3/11/2020	0.027	No	27	0.03618	0.008473	0	None	0	None	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWA-50	0.01497	n/a	3/11/2020	0.0026	No	21	0.1825	0.03515	19.05	Kaplan-Meier	0	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-10	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	74.07	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-11	0.025	n/a	3/12/2020	0.00023	No	27	n/a	n/a	85.19	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-12	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	70.37	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-13	0.025	n/a	3/13/2020	0.00033	No	27	n/a	n/a	85.19	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14_14Z	0.025	n/a	3/13/2020	0.025ND	No	27	n/a	n/a	66.67	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15_15Z	0.025	n/a	3/13/2020	0.0002	No	26	n/a	n/a	69.23	n/a	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-5	0.05566	n/a	3/16/2020	0.012	No	26	0.02693	0.01643	0	None	0	None	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-6	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	59.26	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-7Z	0.025	n/a	3/12/2020	0.00021	No	5	n/a	n/a	60	n/a	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8Z	0.025	n/a	3/16/2020	0.00024	No	10	n/a	n/a	70	n/a	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.025	n/a	3/12/2020	0.00031	No	27	n/a	n/a	66.67	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-50	0.005	n/a	3/11/2020	0.005ND	No	26	n/a	n/a	92.31	n/a	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-11	0.005	n/a	3/12/2020	0.000052	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-13	0.005	n/a	3/13/2020	0.00013	No	32	n/a	n/a	84.38	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-14_14Z	0.005	n/a	3/13/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-6	0.005	n/a	3/12/2020	0.0001	No	32	n/a	n/a	93.75	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-7Z	0.005	n/a	3/12/2020	0.000082	No	11	n/a	n/a	45.45	n/a	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-8Z	0.005	n/a	3/16/2020	0.00016	No	15	n/a	n/a	46.67	n/a	n/a	n/a	0.001313	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-9	0.005	n/a	3/12/2020	0.00016	No	32	n/a	n/a	78.13	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-50	0.0005	n/a	3/11/2020	0.0005ND	No	26	n/a	n/a	96.15	n/a	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-11	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	93.75	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-12	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	93.75	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-13	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15_15Z	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-5	0.0005	n/a	3/16/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-6	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-3	0.05803	n/a	3/11/2020	0.012	No	25	-3.684	0.4762	0	None	0	None	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.00084	No	21	n/a	n/a	47.62	n/a	n/a	n/a	0.000511	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-10	0.032	n/a	3/12/2020	0.0015	No	27	n/a	n/a	51.85	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-11	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	85.19	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-12	0.029	n/a	3/12/2020	0.0022	No	27	n/a	n/a	48.15	n/a	n/a	n/a	0.000256	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-13	0.015	n/a	3/13/2020	0.01ND	No	27	n/a	n/a	74.07	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-14_14Z	0.011	n/a	3/13/2020	0.00078	No	27	n/a	n/a	62.96	n/a	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15_15Z	0.019	n/a	3/13/2020	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-5	0.04631	n/a	3/16/2020	0.015	No	27	0.02419	0.01273	0	None	0	None	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.022	n/a	3/12/2020	0.01ND	No	26	n/a	n/a	46.15	n/a	n/a	n/a	0.0002803	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-7Z	0.001363	n/a	3/12/2020	0.00078	No	5	0.001133	0.00004714	40	Kaplan-Meier	0	Kaplan-Meier	0.0002993	Param Intra 1 of 3

Overburden Wells Intrawell Prediction Limits Summary Table - All Results Page 6

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Nickel (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.0006	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-9	0.014	n/a	3/12/2020	0.0011	No	25	n/a	n/a	40	n/a	n/a	0.0003046	NP Intra (normality) 1 of 3
Selenium (mg/L)	GWC-13	0.0074	n/a	3/13/2020	0.0019	No	32	n/a	n/a	62.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.00039	No	21	n/a	n/a	80.95	n/a	n/a	0.000511	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-15_15Z	0.001	n/a	3/13/2020	0.001ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	3/12/2020	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8Z	0.001	n/a	3/16/2020	0.001ND	No	12	n/a	n/a	83.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-3	0.01	n/a	3/11/2020	0.01ND	No	27	n/a	n/a	92.59	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-10	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-11	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	74.07	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-13	0.01	n/a	3/13/2020	0.002	No	26	n/a	n/a	53.85	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14_14Z	0.012	n/a	3/13/2020	0.01ND	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-15_15Z	0.0165	n/a	3/13/2020	0.00095	No	26	0.006028	0.005988	34.62	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Vanadium (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-6	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.01ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	81.48	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-3	0.1185	n/a	3/11/2020	0.031	No	27	-2.766	0.3644	3.704	None	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWA-50	0.007874	n/a	3/11/2020	0.0025	No	20	0.004272	0.001962	25	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-10	0.03989	n/a	3/12/2020	0.0024	No	27	-5.18	1.127	29.63	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-11	0.015	n/a	3/12/2020	0.0038	No	27	n/a	n/a	62.96	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-12	0.05749	n/a	3/12/2020	0.015	No	27	-4.541	0.9693	14.81	None	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-13	0.01707	n/a	3/13/2020	0.0043	No	23	0.008189	0.004965	26.09	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-14_14Z	0.015	n/a	3/13/2020	0.0028	No	22	n/a	n/a	27.27	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-15_15Z	0.01298	n/a	3/13/2020	0.0026	No	23	0.1578	0.04314	43.48	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-5	0.1443	n/a	3/16/2020	0.047	No	27	0.07538	0.03964	3.704	None	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-6	0.01677	n/a	3/12/2020	0.0042	No	22	0.08853	0.0227	36.36	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-8Z	0.00618	n/a	3/16/2020	0.0073	No	10	0.1413	0.01813	50	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-9	0.01646	n/a	3/12/2020	0.0045	No	23	0.08051	0.0267	17.39	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3

Trend Tests Summary Table - Bedrock Wells - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:14 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.001069	-314	-158	Yes	34	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-4RZ (bg)	0.00552	58	44	Yes	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006697	-139	-106	Yes	26	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-13R_13RZ	0.006513	314	151	Yes	33	0	n/a	n/a	0.02	NP

Trend Tests Summary Table - Bedrock Wells - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:14 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.001069	-314	-158	Yes	34	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-2 (bg)	0.0005249	56	151	No	33	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-2R (bg)	0.0001336	31	151	No	33	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-4RZ (bg)	0.00552	58	44	Yes	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006697	-139	-106	Yes	26	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-13R_13RZ	0.006513	314	151	Yes	33	0	n/a	n/a	0.02	NP

Appendix III Intrawell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Calcium (mg/L)	GWC-5	8.151	n/a	3/16/2020	12.1	Yes	13	1.854	0.3624	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-6	16.11	n/a	3/12/2020	16.2	Yes	12	13.73	0.8433	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-14_14Z	8.012	n/a	3/13/2020	11.1	Yes	12	3.192	1.707	0	None	0.0004426	Param Intra 1 of 2	

Appendix III Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Calcium (mg/L)	GWA-1	35.77	n/a	3/11/2020	31.8	No	13	30.12	2.045	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2	76.67	n/a	3/11/2020	66.6	No	13	21.87	19.84	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2R	68.55	n/a	3/11/2020	46.8	No	13	4.874	1.233	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-3	2.13	n/a	3/11/2020	1	No	13	1.301	0.3004	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-4RZ	57.67	n/a	3/12/2020	54.2	No	13	48.45	3.34	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50	4.676	n/a	3/11/2020	1.6	No	13	2.38	0.8311	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50R	14.16	n/a	3/11/2020	1.2	No	13	5.032	3.306	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	46.26	n/a	3/12/2020	18.6	No	13	976.2	421.5	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10R	48.64	n/a	3/12/2020	43.2	No	13	40.21	3.054	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11	30.68	n/a	3/12/2020	8	No	13	17.71	4.696	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11R	36.51	n/a	3/12/2020	32.5	No	13	25.31	4.056	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-12	9.786	n/a	3/12/2020	8.1	No	13	8.042	0.6313	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13	77.34	n/a	3/13/2020	33	No	13	48.64	10.39	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13R_13RZ	66.28	n/a	3/17/2020	44.9	No	13	43.21	8.352	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-14_14Z	46.16	n/a	3/13/2020	17	No	13	23.01	8.383	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-15_15Z	30.61	n/a	3/13/2020	24.2	No	13	12616	5821	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-15R	62.5	n/a	3/13/2020	41	No	13	n/a	n/a	0	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWC-5	8.151	n/a	3/16/2020	12.1	Yes	13	1.854	0.3624	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	16.11	n/a	3/12/2020	16.2	Yes	12	13.73	0.8433	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6RZ	15.76	n/a	3/12/2020	9.3	No	12	11.35	1.561	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-7Z	27.62	n/a	3/12/2020	26.4	No	13	23.25	1.58	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8RR	25.71	n/a	3/12/2020	21.8	No	13	22.17	1.281	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8Z	27.75	n/a	3/16/2020	19.4	No	12	21.09	2.357	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	33.72	n/a	3/12/2020	1.8	No	13	10.16	8.529	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-1	2.705	n/a	3/11/2020	0.94	No	13	1.707	0.3615	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2	171.3	n/a	3/11/2020	131	No	13	45.47	45.57	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2R	103.2	n/a	3/11/2020	34.3	No	13	1.076	1.289	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-3	1.359	n/a	3/11/2020	0.5ND	No	13	0.7044	0.2369	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-4RZ	29.81	n/a	3/12/2020	20.8	No	14	21.19	3.193	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50	1.082	n/a	3/11/2020	0.5ND	No	13	0.692	0.1413	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50R	1.77	n/a	3/11/2020	0.85	No	13	1.035	0.2659	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10	2.331	n/a	3/12/2020	1.3	No	13	1.414	0.332	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10R	2.202	n/a	3/12/2020	0.99	No	13	1.539	0.2398	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11	3.864	n/a	3/12/2020	1.8	No	13	2.667	0.4333	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11R	4.815	n/a	3/12/2020	1.5	No	13	2.798	0.7303	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-12	0.8022	n/a	3/12/2020	0.5ND	No	13	0.6222	0.09903	23.08	Kaplan-Meier	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13	205.7	n/a	3/13/2020	16.9	No	13	84.47	43.88	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13R_13RZ	108.2	n/a	3/17/2020	72.1	No	13	53.11	19.95	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-14_14Z	8.012	n/a	3/13/2020	11.1	Yes	12	3.192	1.707	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15_15Z	14.01	n/a	3/13/2020	1.1	No	13	4.438	3.464	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15R	14.72	n/a	3/13/2020	8.8	No	13	9.142	2.02	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-5	2.23	n/a	3/16/2020	1.1	No	13	1.506	0.2621	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6	4.05	n/a	3/12/2020	2.1	No	13	2.394	0.5998	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6RZ	3.575	n/a	3/12/2020	1.4	No	13	2.112	0.5298	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-7Z	2.373	n/a	3/12/2020	1.7	No	13	0.8731	0.5429	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8RR	2.043	n/a	3/12/2020	1.8	No	13	1.043	0.3621	7.692	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8Z	4.386	n/a	3/16/2020	0.66	No	13	2.324	0.7467	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-9	4.885	n/a	3/12/2020	1.1	No	13	2.372	0.9101	7.692	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-1	192.9	n/a	3/11/2020	172	No	13	151.7	14.9	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2	370	n/a	3/11/2020	309	No	13	122.7	89.51	7.692	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2R	250.2	n/a	3/11/2020	170	No	13	120	47.12	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-3	58.82	n/a	3/11/2020	24	No	13	26.41	11.74	38.46	Kaplan-Meier	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-4RZ	444.4	n/a	3/12/2020	247	No	13	262.5	65.86	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50	50.58	n/a	3/11/2020	17	No	13	23.65	9.751	30.77	Kaplan-Meier	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50R	107.3	n/a	3/11/2020	24	No	13	37	25.45	23.08	Kaplan-Meier	0.0004426	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

<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</u>	<u>N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/l)	GWC-10	203.4	n/a	3/12/2020	63	No	13	133.3	25.39	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-10R	224.9	n/a	3/12/2020	81	No	13	161	23.15	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-11	157.3	n/a	3/12/2020	96	No	13	95.08	22.54	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-11R	178.8	n/a	3/12/2020	125	No	13	128	18.4	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-12	114	n/a	3/12/2020	64	No	13	4.084	0.2771	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-13	424.3	n/a	3/13/2020	143	No	13	239.6	66.87	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-13R_13RZ	380.1	n/a	3/17/2020	256	No	13	67659	27810	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-14_14Z	287.4	n/a	3/13/2020	59	No	13	123.6	59.29	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-15_15Z	233.3	n/a	3/13/2020	76	No	13	125.5	39.04	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-15R	247.9	n/a	3/13/2020	169	No	13	166.2	29.56	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-5	124	n/a	3/16/2020	20	No	13	43.54	29.12	15.38	Kaplan-Meier	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-6	169.5	n/a	3/12/2020	42	No	13	9.238	1.368	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-6RZ	163.6	n/a	3/12/2020	22	No	13	82	29.54	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-7Z	174.7	n/a	3/12/2020	86	No	13	125.7	17.74	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-8RR	132.3	n/a	3/12/2020	84	No	13	108.6	8.559	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-8Z	178.6	n/a	3/16/2020	76	No	13	121.7	20.62	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWC-9	187.9	n/a	3/12/2020	16	No	13	64.54	44.65	0	None	0.0004426	Param Intra 1 of 2	

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

<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>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-10R	2.988	n/a	3/12/2020	3	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13	2.988	n/a	3/13/2020	3.3	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13R_13RZ	2.988	n/a	3/17/2020	7.7	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-14_14Z	2.988	n/a	3/13/2020	4.2	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
pH (pH units)	GWC-15_15Z	7.65	5.07	3/13/2020	7.68	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	7.65	5.07	3/12/2020	8.02	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	7.65	5.07	3/12/2020	4.82	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-10	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-10R	0.04	n/a	3/12/2020	0.005	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11R	0.04	n/a	3/12/2020	0.0058	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.04	n/a	3/13/2020	0.014	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13R_13RZ	0.04	n/a	3/17/2020	0.017	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-14_14Z	0.04	n/a	3/13/2020	0.0081	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15_15Z	0.04	n/a	3/13/2020	0.0054	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15R	0.04	n/a	3/13/2020	0.0064	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.04	n/a	3/16/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6	0.04	n/a	3/12/2020	0.0061	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6RZ	0.04	n/a	3/12/2020	0.0052	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-7Z	0.04	n/a	3/12/2020	0.0057	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8RR	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8Z	0.04	n/a	3/16/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.04	n/a	3/12/2020	0.0058	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Chloride (mg/L)	GWC-10	2.988	n/a	3/12/2020	2.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-10R	2.988	n/a	3/12/2020	3	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-11	2.988	n/a	3/12/2020	1	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-11R	2.988	n/a	3/12/2020	1.5	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-12	2.988	n/a	3/12/2020	0.84	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13	2.988	n/a	3/13/2020	3.3	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13R_13RZ	2.988	n/a	3/17/2020	7.7	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-14_14Z	2.988	n/a	3/13/2020	4.2	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-15_15Z	2.988	n/a	3/13/2020	0.7	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-15R	2.988	n/a	3/13/2020	1.6	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-5	2.988	n/a	3/16/2020	0.67	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-6	2.988	n/a	3/12/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-6RZ	2.988	n/a	3/12/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-7Z	2.988	n/a	3/12/2020	0.72	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-8RR	2.988	n/a	3/12/2020	0.93	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-8Z	2.988	n/a	3/16/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-9	2.988	n/a	3/12/2020	1.9	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Fluoride (mg/L)	GWC-10	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-10R	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11R	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-12	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13R_13RZ	0.3	n/a	3/17/2020	0.11	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-14_14Z	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15_15Z	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15R	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.3	n/a	3/16/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6RZ	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-7Z	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8RR	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8Z	0.3	n/a	3/16/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-9	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
pH (pH units)	GWC-10	7.65	5.07	3/12/2020	6.43	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-10R	7.65	5.07	3/12/2020	7.49	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11	7.65	5.07	3/12/2020	6.3	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11R	7.65	5.07	3/12/2020	7.6	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
pH (pH units)	GWC-12	7.65	5.07	3/12/2020	6.17	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13	7.65	5.07	3/13/2020	7.25	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13R_13RZ	7.65	5.07	3/17/2020	7.62	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-14_14Z	7.65	5.07	3/13/2020	6.16	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15_15Z	7.65	5.07	3/13/2020	7.68	Yes	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15R	7.65	5.07	3/13/2020	7.56	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-5	7.65	5.07	3/16/2020	6.88	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6	7.65	5.07	3/12/2020	7.4	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6RZ	7.65	5.07	3/12/2020	6.88	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-7Z	7.65	5.07	3/12/2020	7.53	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	7.65	5.07	3/12/2020	8.02	Yes	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8Z	7.65	5.07	3/16/2020	7.01	No	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	7.65	5.07	3/12/2020	4.82	Yes	99	n/a	n/a	0	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2

Trend Tests Summary Table - Prediction Limit Exceedances - Appendix III Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/6/2020, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-1 (bg)	0.61	19	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2 (bg)	-5.033	-15	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2R (bg)	4.179	41	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-3 (bg)	-0.1591	-54	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-4RZ (bg)	0.5153	5	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-50 (bg)	-0.04086	-4	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-50R (bg)	-0.8474	-29	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-10	-3.359	-18	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-5	-0.2792	-25	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-6	0.3688	20	39	No	13	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-1 (bg)	-0.07256	-27	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2 (bg)	-0.3486	-39	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2R (bg)	0.002755	3	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-3 (bg)	-0.03156	-34	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-4RZ (bg)	0	2	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-50 (bg)	-0.05741	-26	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-50R (bg)	-0.05729	-34	-44	No	14	14.29	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-10R	-0.03027	-10	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-13	0	-1	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-13R_13RZ	1.019	39	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-14_14Z	0.4506	47	44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-1 (bg)	-0.02607	-31	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-2 (bg)	-0.233	-37	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-2R (bg)	-0.09597	-44	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-3 (bg)	-0.1413	-69	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-4RZ (bg)	-0.03583	-11	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-50 (bg)	-0.08734	-34	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-50R (bg)	-0.1618	-35	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-15_15Z	-0.1063	-41	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-8RR	-0.04345	-25	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-9	-0.2898	-32	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-1 (bg)	-0.3058	-72	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-2 (bg)	-8.636	-13	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-2R (bg)	0.8303	33	44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-3 (bg)	-0.1575	-52	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-4RZ (bg)	1.685	23	48	No	15	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-50 (bg)	-0.08022	-40	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-50R (bg)	-0.09287	-36	-44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWC-14_14Z	1.298	31	39	No	13	0	n/a	n/a	0.02	NP

Excluded Data - Bedrock Wells

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:08 AM

GWC-13R_13RZ Zinc (mg/L)
GWC-15R Zinc (mg/L)

8/21/2007	
8/23/2007	
10/24/2007	
11/17/2007	0.023 (O)
11/18/2007	
1/15/2008	
1/30/2008	
1/31/2008	
3/6/2008	
3/11/2008	
12/2/2008	0.021 (O)
12/4/2008	
12/12/2008	0.097 (O)
4/23/2009	
4/29/2009	0.068 (O)
10/6/2009	
10/7/2009	
10/21/2009	
4/27/2010	
4/28/2010	0.048 (O)
5/3/2010	
4/27/2011	
4/3/2012	
4/2/2013	
10/8/2013	
10/16/2013	
4/1/2014	
10/1/2014	
3/30/2015	
3/31/2015	
4/1/2015	
10/11/2015	
10/13/2015	
10/14/2015	
3/29/2016	
3/30/2016	
4/5/2016	
9/28/2016	
3/16/2018	

Excluded Data - Overburden Wells

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:10 AM

	GWC-6 Zinc (mg/L)	GWC-9 Zinc (mg/L)
8/22/2007	0.04 (o)	
8/23/2007		
8/24/2007		
11/2/2007		
11/17/2007		
11/18/2007		
11/20/2007	0.03 (o)	
1/15/2008		0.075 (o)
1/16/2008		
1/23/2008	0.048 (o)	
1/31/2008		
3/5/2008		
3/6/2008		0.051 (o)
3/10/2008		
3/11/2008		
5/13/2008		
5/14/2008		
12/2/2008		
12/5/2008		
12/12/2008		0.077 (o)
12/13/2008		
12/14/2008		
4/15/2009		
4/16/2009		0.064 (o)
4/28/2009		
4/29/2009		
10/8/2009		
10/9/2009	0.055 (o)	
10/20/2009		
10/21/2009		
4/27/2010		
5/4/2010	0.045 (o)	
5/2/2012		
4/15/2013		
10/22/2013		
4/21/2014		
9/30/2014		
4/3/2015		
10/7/2015		
3/22/2016		
3/28/2016		
3/30/2016		
4/5/2016		
5/31/2016		
8/9/2016		
3/23/2019		

Excluded Data - Appendix III

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:11 AM

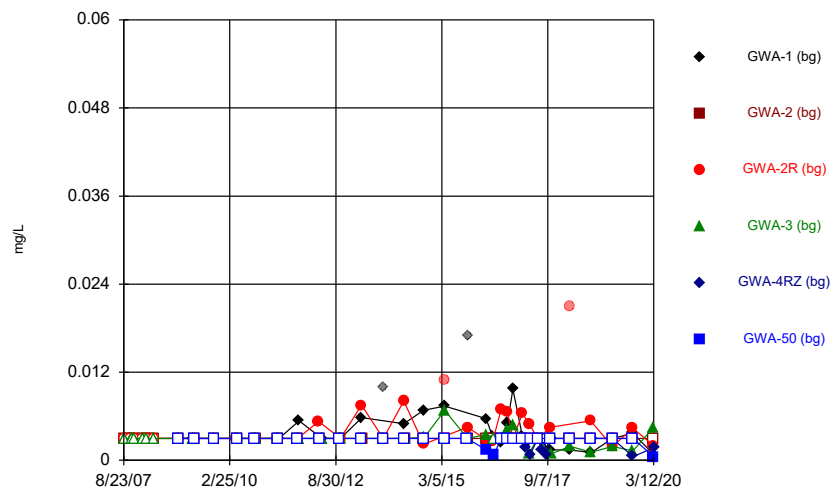
GWA-2 Fluoride (mg/L)

3/19/2018

1.1 (o)

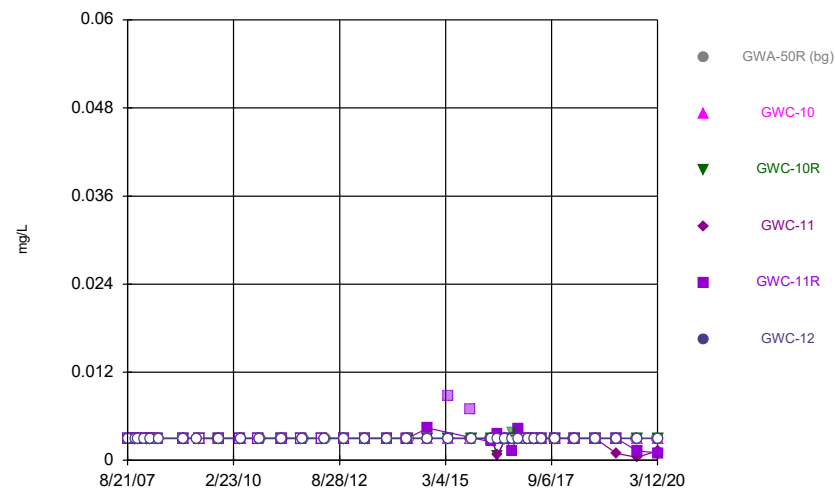
FIGURE A.

Time Series



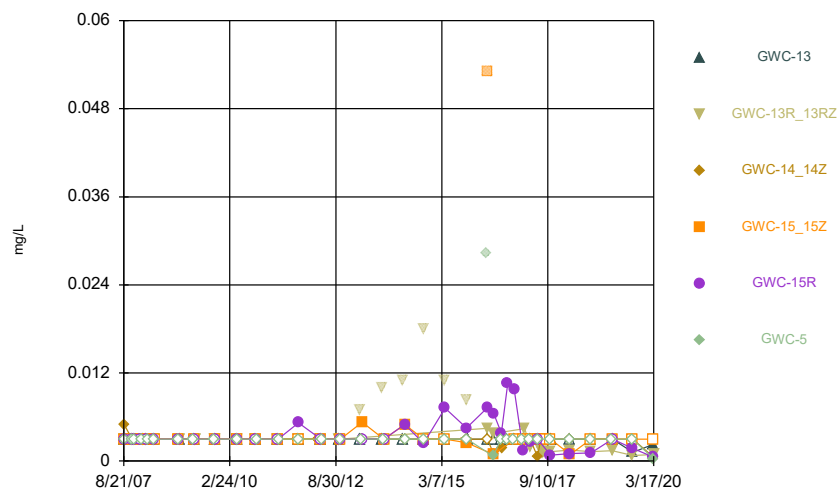
Constituent: Antimony Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



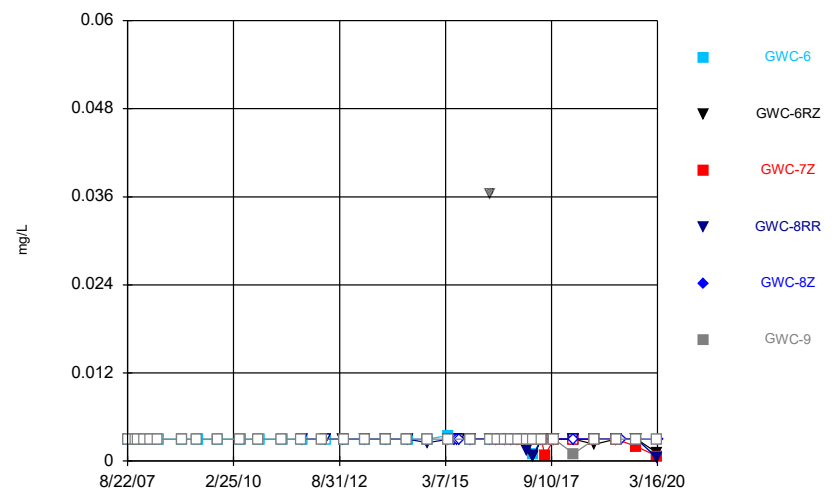
Constituent: Antimony Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Antimony Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Antimony Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.003	<0.003	<0.003	<0.003		
10/23/2007	<0.003					
10/24/2007		<0.003	<0.003			
11/2/2007				<0.003		
11/18/2007	<0.003	<0.003	<0.003	<0.003		
1/30/2008	<0.003					
1/31/2008		<0.003	<0.003	<0.003		
3/10/2008	<0.003		<0.003			
3/11/2008		<0.003		<0.003		
5/6/2008		<0.003				
5/13/2008	<0.003		<0.003			
5/14/2008				<0.003		
12/4/2008		<0.003	<0.003			
12/5/2008	<0.003			<0.003		
12/12/2008						<0.003
4/15/2009	<0.003			<0.003		
4/21/2009		<0.003	<0.003			
4/23/2009						<0.003
10/6/2009						<0.003
10/7/2009	<0.003	<0.003				
10/8/2009			<0.003	<0.003		
4/21/2010			<0.003			
4/26/2010		<0.003				
4/27/2010						<0.003
4/28/2010				<0.003		
5/3/2010	<0.003					
9/28/2010			<0.003			
9/30/2010						<0.003
10/4/2010		<0.003				
10/6/2010				<0.003		
10/12/2010	<0.003					
4/12/2011			<0.003			
4/13/2011		<0.003				
4/14/2011						<0.003
4/21/2011				<0.003		
4/27/2011	<0.003					
10/4/2011			<0.003			
10/5/2011		<0.003				<0.003
10/13/2011				<0.003		
10/17/2011	0.0054					
4/3/2012			0.0053			
4/11/2012		<0.003				<0.003
5/1/2012				<0.003		
5/2/2012	<0.003					
10/2/2012						<0.003
10/8/2012	<0.003					
10/9/2012		<0.003	<0.003	<0.003		
4/9/2013						<0.003
4/11/2013			0.0075	<0.003		
4/12/2013	0.0058					
4/15/2013		<0.003				
10/15/2013		<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	0.01 (o)		<0.003	<0.003		
4/10/2014			0.0081			<0.003
4/11/2014	0.005 (J)					
4/22/2014		<0.003				
4/23/2014				<0.003		
9/30/2014	0.0068	<0.003	0.0022 (J)			
10/1/2014						<0.003
10/4/2014				0.0031 (J)		
3/30/2015	0.0074	<0.003	0.011 (o)			<0.003
3/31/2015				0.0068		
10/11/2015						<0.003
10/12/2015				<0.003		
10/13/2015	0.017 (o)	<0.003	0.0045 (J)			
3/22/2016	0.00567					
3/23/2016		<0.003	0.00281 (J)	0.0035		
3/28/2016						0.00139 (J)
5/19/2016	0.00319		0.00264 (J)			
5/20/2016		<0.003				
5/23/2016				<0.003		0.000677 (J)
7/29/2016	0.0025 (J)	<0.003	0.0069	0.0029 (J)		
8/1/2016						<0.003
9/22/2016			0.0066	0.0041		
9/23/2016	0.0051	<0.003				
9/26/2016						<0.003
11/9/2016	0.0097 (J)	<0.003				
11/10/2016			<0.003	0.0048 (J)		<0.003
1/30/2017	0.0032					<0.003
1/31/2017		<0.003	0.0064	<0.003		
2/22/2017					0.0018 (J)	
3/30/2017	0.0028 (J)	<0.003		0.001 (J)		
4/3/2017			0.0049			
4/7/2017					0.0008 (J)	<0.003
6/9/2017	<0.003		<0.003			
6/12/2017		<0.003		<0.003		<0.003
6/14/2017					<0.003	
7/12/2017					0.0015 (J)	
7/20/2017					<0.003	
7/28/2017					<0.003	
8/9/2017					<0.003	
8/24/2017					0.0007 (J)	
10/2/2017	0.0014 (J)	<0.003	0.0045			<0.003
10/3/2017					<0.003	
10/4/2017				0.0009 (J)		
3/16/2018	0.0014 (J)		0.021 (o)			<0.003
3/19/2018		<0.003		0.0019 (J)		
3/21/2018					<0.003	
9/14/2018		<0.003	0.0054			
9/17/2018	0.00105 (JD)			0.0011 (J)		<0.003
9/18/2018					<0.003	
3/19/2019			0.0019 (J)			<0.003
3/20/2019	<0.003	<0.003		0.0019 (J)		
3/21/2019					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	0.0037	<0.003 (D)			0.00052 (J)	
9/13/2019			0.0044	0.0013 (J)		<0.003
3/11/2020	0.00079 (J)	<0.003	0.002 (J)	0.0045		0.0005 (J)
3/12/2020					0.0017 (J)	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2007		<0.003	<0.003	<0.003	<0.003	<0.003
11/18/2007				<0.003	<0.003	
11/19/2007						<0.003
11/20/2007		<0.003	<0.003			
1/16/2008						<0.003
1/30/2008		<0.003	<0.003	<0.003	<0.003	
3/5/2008				<0.003		<0.003
3/6/2008		<0.003	<0.003		<0.003	
5/7/2008				<0.003	<0.003	
5/8/2008			<0.003			
5/12/2008		<0.003				
5/13/2008						<0.003
12/12/2008	<0.003					
12/13/2008		<0.003				<0.003
12/14/2008			<0.003	<0.003	<0.003	
4/16/2009						<0.003
4/23/2009	<0.003					
4/29/2009		<0.003	<0.003	<0.003	<0.003	
10/6/2009	<0.003					
10/20/2009		<0.003				
10/21/2009			<0.003			<0.003
10/22/2009				<0.003	<0.003	
4/21/2010			<0.003	<0.003	<0.003	
4/26/2010		<0.003				
4/27/2010						<0.003
5/3/2010	<0.003					
9/28/2010			<0.003	<0.003		
9/29/2010		<0.003			<0.003	
10/5/2010						<0.003
10/11/2010	<0.003					
4/12/2011			<0.003	<0.003		
4/13/2011		<0.003			<0.003	
4/19/2011						<0.003
4/27/2011	<0.003					
10/4/2011			<0.003	<0.003	<0.003	
10/5/2011		<0.003				
10/12/2011						<0.003
10/19/2011	<0.003					
4/3/2012			<0.003	<0.003		
4/4/2012		<0.003			<0.003	
4/24/2012						<0.003
5/1/2012	<0.003					
10/2/2012	<0.003					<0.003
10/3/2012		<0.003		<0.003	<0.003	
10/8/2012			<0.003			
4/2/2013						<0.003
4/3/2013		<0.003	<0.003	<0.003	<0.003	
4/10/2013	<0.003					
10/9/2013				<0.003	<0.003	<0.003
10/15/2013		<0.003	<0.003			
10/16/2013	<0.003					

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.003
4/2/2014				<0.003	<0.003	
4/9/2014		<0.003	<0.003			
4/22/2014	<0.003					
10/1/2014	<0.003					
10/2/2014		<0.003	<0.003	<0.003	0.0044 (J)	<0.003
3/30/2015	<0.003					
4/1/2015				<0.003	0.0087 (o)	<0.003
4/2/2015		<0.003	<0.003			
10/10/2015		<0.003				
10/11/2015	<0.003			<0.003	0.007 (o)	
10/12/2015			<0.003			
10/14/2015						<0.003
3/28/2016	<0.003					
3/31/2016		<0.003	<0.003			
4/4/2016				<0.003	0.00252 (J)	<0.003
5/25/2016	<0.003					
5/26/2016		<0.003	0.000659 (J)	0.000722 (J)	0.00351	
5/27/2016						<0.003
8/1/2016	<0.003					
8/3/2016			<0.003	<0.003		<0.003
8/4/2016					<0.003	
8/5/2016		<0.003				
9/26/2016	<0.003					
9/28/2016		<0.003	0.0037 (o)	<0.003	0.0012 (J)	
9/30/2016						<0.003
11/11/2016	<0.003					
11/22/2016		<0.003	<0.003	<0.003	0.0042	<0.003
1/30/2017	<0.003					
2/7/2017		<0.003	<0.003			
2/8/2017				<0.003	<0.003	
2/13/2017						<0.003
4/3/2017	<0.003					
4/10/2017		<0.003	<0.003	<0.003	<0.003	
4/11/2017						<0.003
6/12/2017	<0.003					
6/14/2017		<0.003	<0.003			<0.003
6/15/2017				<0.003	<0.003	
10/2/2017	<0.003					
10/4/2017		<0.003	<0.003	<0.003	<0.003	<0.003
3/16/2018	<0.003					
3/20/2018		<0.003				
3/21/2018			<0.003	<0.003		
3/22/2018					<0.003	<0.003
9/18/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2019	<0.003					
3/22/2019		<0.003	<0.003			
3/23/2019				0.00094 (J)	<0.003	<0.003
9/12/2019	<0.003					
9/17/2019		<0.003	<0.003	0.00041 (J)	0.0013 (J)	<0.003 (D)
3/11/2020	<0.003					
3/12/2020		<0.003	<0.003	0.0013 (J)	0.001 (J)	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.003	<0.003				
8/23/2007					<0.003	<0.003
8/24/2007			0.005	<0.003		
10/25/2007						<0.003
11/1/2007	<0.003	<0.003				
11/2/2007			<0.003	<0.003	<0.003	
11/17/2007			<0.003		<0.003	
11/18/2007				<0.003		
11/19/2007	<0.003	<0.003				<0.003
1/15/2008			<0.003	<0.003	<0.003	
1/23/2008						<0.003
1/31/2008	<0.003	<0.003				
3/5/2008	<0.003	<0.003	<0.003			
3/6/2008					<0.003	
3/10/2008				<0.003		
3/11/2008						<0.003
5/7/2008		<0.003	<0.003		<0.003	
5/12/2008	<0.003					<0.003
5/13/2008				<0.003		
12/2/2008			<0.003	<0.003	<0.003	
12/11/2008						<0.003
12/12/2008		<0.003				
12/13/2008	<0.003					
4/15/2009						<0.003
4/16/2009			<0.003			
4/28/2009	<0.003			<0.003	<0.003	
4/29/2009		<0.003				
10/9/2009						<0.003
10/19/2009					<0.003	
10/20/2009			<0.003	<0.003		
10/21/2009	<0.003	<0.003				
4/20/2010			<0.003			
4/27/2010				<0.003	<0.003	
4/28/2010	<0.003	<0.003				
5/4/2010						<0.003
9/29/2010			<0.003			
10/4/2010					<0.003	
10/5/2010	<0.003			<0.003		
10/6/2010		<0.003				
10/12/2010						<0.003
4/12/2011			<0.003			
4/18/2011					<0.003	
4/19/2011	<0.003			<0.003		
4/20/2011		<0.003				
4/28/2011						<0.003
10/4/2011			<0.003			
10/12/2011		<0.003		<0.003	0.0052	
10/18/2011	<0.003					
10/19/2011						<0.003
4/4/2012			<0.003			
4/23/2012					<0.003	
4/25/2012	<0.003	<0.003		<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Date	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.003
10/2/2012	<0.003	<0.003				
10/9/2012						<0.003
10/10/2012			<0.003	<0.003	<0.003	
4/2/2013	<0.003	0.007 (o)				
4/11/2013						<0.003
4/15/2013			<0.003		<0.003	
4/16/2013				0.0053		
10/8/2013	<0.003	0.01 (o)				
10/16/2013						<0.003
10/22/2013			<0.003	<0.003	<0.003	
4/1/2014	<0.003	0.011 (o)				
4/21/2014			<0.003	0.005 (J)	0.005 (J)	
4/23/2014						<0.003
9/30/2014			<0.003	<0.003	0.0024 (J)	
10/1/2014	<0.003	0.018 (o)				
10/3/2014						<0.003
3/31/2015		0.011 (o)				<0.003
4/1/2015	<0.003					
4/3/2015			<0.003	<0.003	0.0072	
10/6/2015				0.0025 (J)		
10/7/2015			<0.003		0.0045 (J)	
10/12/2015						<0.003
10/14/2015		0.0083 (o)				
10/15/2015	<0.003					
3/28/2016						0.0284 (o)
4/4/2016	<0.003	0.00447				
4/5/2016			<0.003	0.053 (o)	0.00727	
5/25/2016						0.000686 (J)
5/31/2016	<0.003			0.00088 (J)	0.00649	
6/1/2016		0.00377	0.000895 (J)			
8/1/2016						<0.003
8/4/2016	<0.003				0.0038	
8/9/2016			0.0017 (JD)			
9/27/2016						<0.003
9/29/2016	<0.003				0.0106	
11/11/2016						<0.003
11/23/2016				<0.003	0.0098	
11/28/2016	<0.003		<0.003			
1/31/2017						<0.003
2/9/2017	<0.003		<0.003			
2/10/2017				<0.003	0.0014 (J)	
2/22/2017		0.0044				
4/3/2017						<0.003
4/11/2017		0.0019 (J)	<0.003	<0.003		
4/12/2017	<0.003				0.0026 (J)	
6/12/2017						<0.003
6/14/2017			0.0006 (J)			
6/15/2017				<0.003	<0.003	
6/16/2017	<0.003	<0.003				
7/12/2017		0.0018 (J)	<0.003	<0.003		
7/26/2017				<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		0.0011 (J)				
8/10/2017		0.0012 (J)				
10/3/2017						<0.003
10/5/2017			<0.003			
10/6/2017		0.0013 (J)		<0.003	0.0008 (J)	
10/9/2017	<0.003					
3/19/2018						<0.003
3/21/2018	<0.003					
3/22/2018			<0.003			
3/23/2018		0.0015 (J)		0.00089 (J)	0.001 (J)	
9/17/2018						<0.003
9/19/2018	<0.003		<0.003	<0.003	0.0011 (J)	
9/20/2018		0.0013 (J)				
3/20/2019						<0.003
3/22/2019		0.0014 (J)	<0.003	<0.003		
3/23/2019	<0.003					
3/25/2019					<0.003	
9/16/2019						<0.003
9/17/2019			<0.003	<0.003	0.0017 (J)	
9/18/2019	0.0012 (J)	0.00077 (X)				
3/13/2020	0.0023 (J)		0.00053 (J)	<0.003	0.00056 (J)	
3/16/2020						0.00031 (J)
3/17/2020		0.0009 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

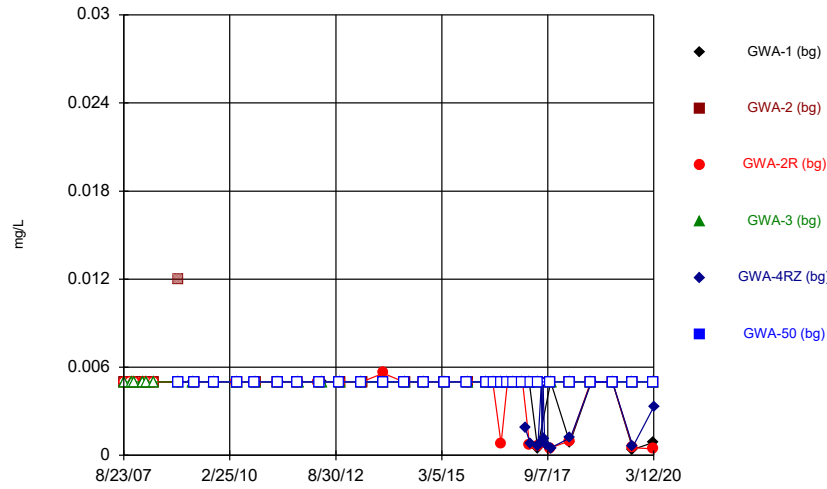
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.003					
8/23/2007						<0.003
10/25/2007	<0.003					
11/1/2007						<0.003
11/19/2007						<0.003
11/20/2007	<0.003					
1/15/2008						<0.003
1/23/2008	<0.003					
3/6/2008						<0.003
3/11/2008	<0.003					
5/13/2008						<0.003
5/14/2008	<0.003					
12/11/2008	<0.003					
12/12/2008						<0.003
4/16/2009						<0.003
4/23/2009	<0.003					
10/9/2009	<0.003					
10/13/2009						<0.003
4/21/2010						<0.003
5/4/2010	<0.003					
9/29/2010						<0.003
10/11/2010	<0.003					
4/13/2011						<0.003
4/26/2011	<0.003					
10/5/2011						<0.003
10/18/2011	<0.003			<0.003		
4/4/2012						<0.003
4/30/2012				<0.003		
5/2/2012	<0.003					
10/3/2012				<0.003		
10/8/2012	<0.003					<0.003
4/8/2013				<0.003		<0.003
4/10/2013	<0.003					
10/8/2013	<0.003					
10/9/2013				<0.003		<0.003
4/9/2014						<0.003
4/10/2014				<0.003		
4/14/2014	<0.003					
9/30/2014						<0.003
10/2/2014				0.0025 (J)		
10/3/2014	<0.003					
4/1/2015	0.0035 (J)					
4/2/2015						<0.003
4/3/2015				<0.003		
5/26/2015		<0.003			<0.003	
6/18/2015		<0.003 (D)			<0.003 (D)	
7/2/2015		<0.003			<0.003	
10/8/2015				<0.003	<0.003	
10/9/2015	<0.003	<0.003				
10/10/2015						<0.003 (D)
3/22/2016					<0.003	
3/29/2016	<0.003	0.0364 (o)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

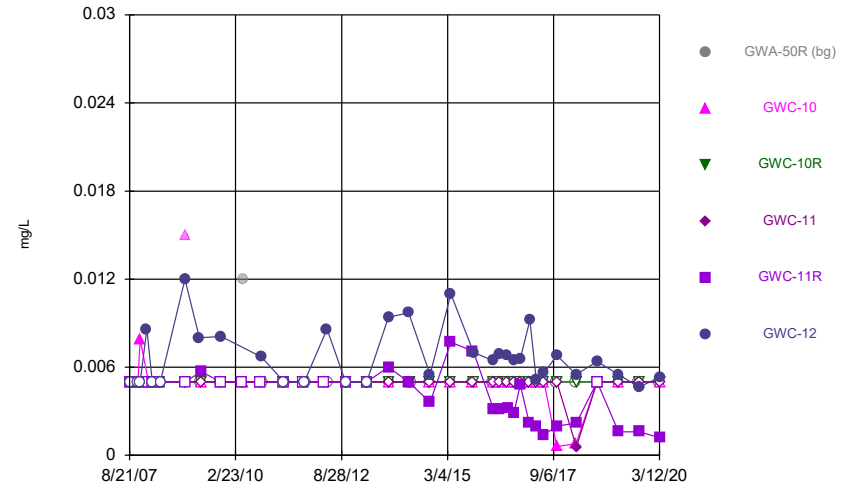
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.003		<0.003
5/24/2016	<0.003	<0.003		<0.003		
5/25/2016					<0.003	
5/26/2016						<0.003
5/31/2016			<0.003			
8/1/2016	<0.003	<0.003				
8/2/2016			<0.003	<0.003	<0.003	
8/5/2016						<0.003
9/26/2016	<0.003	<0.003			<0.003	
9/27/2016			<0.003	<0.003		
9/28/2016						<0.003
11/14/2016		<0.003				
11/18/2016	<0.003					
11/21/2016			<0.003		<0.003	<0.003
11/22/2016				<0.003		
2/1/2017	<0.003	<0.003	<0.003			
2/3/2017					<0.003	
2/6/2017				0.0015 (J)		<0.003
4/6/2017	0.001 (J)	0.0006 (J)	<0.003	0.0007 (J)		<0.003
4/7/2017					<0.003	
6/13/2017	<0.003	<0.003	<0.003		<0.003	<0.003
6/14/2017				<0.003		
7/14/2017			0.0008 (J)			
10/3/2017	<0.003	<0.003	<0.003		<0.003	<0.003
10/4/2017				<0.003		
3/19/2018	<0.003					
3/20/2018		<0.003	<0.003		<0.003	0.001 (J)
3/21/2018				<0.003		
9/17/2018	<0.003	0.0023 (J)				
9/18/2018			<0.003	<0.003	<0.003	<0.003 (D)
3/21/2019	<0.003	<0.003	<0.003			<0.003
3/27/2019				<0.003		
5/6/2019					<0.003	
9/13/2019			0.002 (J)			
9/16/2019	<0.003	<0.003		<0.003 (D)	<0.003	<0.003
3/12/2020	0.00052 (J)	0.0011 (J)	0.00066 (J)	0.00043 (J)		<0.003
3/16/2020					<0.003	

Time Series



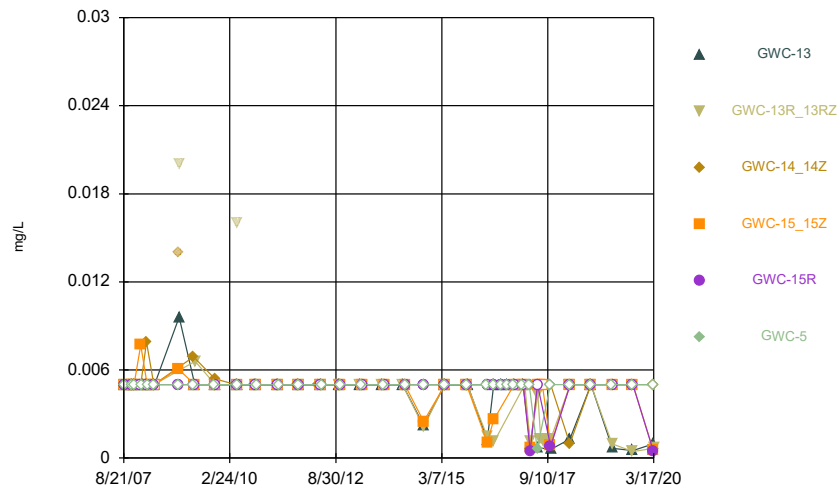
Constituent: Arsenic Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



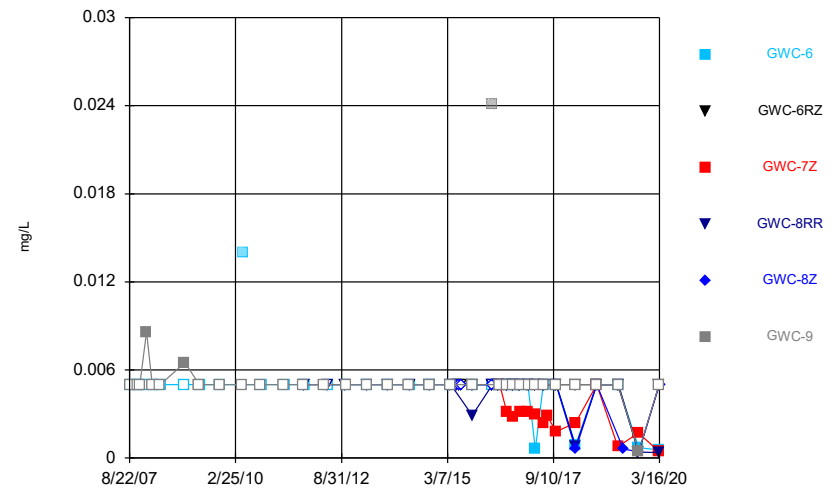
Constituent: Arsenic Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Arsenic Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Arsenic Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.005	<0.005	<0.005	<0.005		
10/23/2007	<0.005					
10/24/2007		<0.005	<0.005			
11/2/2007				<0.005		
11/18/2007	<0.005	<0.005	<0.005	<0.005		
1/30/2008	<0.005					
1/31/2008		<0.005	0.005	<0.005		
3/10/2008	<0.005		<0.005			
3/11/2008		<0.005		<0.005		
5/6/2008		<0.005				
5/13/2008	<0.005		<0.005			
5/14/2008				<0.005		
12/4/2008		0.012 (o)	<0.005			
12/5/2008	<0.005			<0.005		
12/12/2008						<0.005
4/15/2009	<0.005			<0.005		
4/21/2009		<0.005	<0.005			
4/23/2009						<0.005
10/6/2009						<0.005
10/7/2009	<0.005	<0.005				
10/8/2009			<0.005	<0.005		
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010						<0.005
4/28/2010				<0.005		
5/3/2010	<0.005					
9/28/2010			<0.005			
9/30/2010						<0.005
10/4/2010		<0.005				
10/6/2010				<0.005		
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011						<0.005
4/21/2011				<0.005		
4/27/2011	<0.005					
10/4/2011			<0.005			
10/5/2011		<0.005				<0.005
10/13/2011				<0.005		
10/17/2011	<0.005					
4/3/2012			<0.005			
4/11/2012		<0.005				<0.005
5/1/2012				<0.005		
5/2/2012	<0.005					
10/2/2012						<0.005
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005	<0.005		
4/9/2013						<0.005
4/11/2013			<0.005	<0.005		
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.005		0.0056	<0.005		
4/10/2014			<0.005			<0.005
4/11/2014	<0.005					
4/22/2014		<0.005				
4/23/2014				<0.005		
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014						<0.005
10/4/2014				<0.005		
3/30/2015	<0.005	<0.005	<0.005			<0.005
3/31/2015				<0.005		
10/11/2015						<0.005
10/12/2015				<0.005		
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005	<0.005		
3/28/2016						<0.005
5/19/2016	<0.005		<0.005			
5/20/2016		<0.005				
5/23/2016				<0.005		<0.005
7/29/2016	<0.005	<0.005	0.0008 (J)	<0.005		
8/1/2016						<0.005
9/22/2016			<0.005	<0.005		
9/23/2016	<0.005	<0.005				
9/26/2016						<0.005
11/9/2016	<0.005	<0.005				
11/10/2016			<0.005	<0.005		<0.005
1/30/2017	<0.005					<0.005
1/31/2017		<0.005	<0.005	<0.005		
2/22/2017					0.0019 (J)	
3/30/2017	<0.005	<0.005		<0.005		
4/3/2017			0.0007 (J)			
4/7/2017					0.0008 (J)	<0.005
6/9/2017	0.0005 (J)		0.0006 (J)			
6/12/2017		<0.005		<0.005		<0.005
6/14/2017					0.0006 (J)	
7/12/2017					<0.005	
7/20/2017					0.0009 (J)	
7/28/2017					<0.005	
8/9/2017					0.0011 (J)	
8/24/2017					0.0007 (J)	
10/2/2017	<0.005	<0.005	0.0005 (J)			<0.005
10/3/2017					0.0005 (J)	
10/4/2017				<0.005		
3/16/2018	0.00085 (J)		0.001 (J)			<0.005
3/19/2018		<0.005		<0.005		
3/21/2018					0.0012 (J)	
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)			<0.005		<0.005
9/18/2018					<0.005	
3/19/2019			<0.005			<0.005
3/20/2019	<0.005	<0.005		<0.005		
3/21/2019					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	0.0004 (J)	<0.005 (D)			0.0006 (J)	
9/13/2019			0.00051 (J)	<0.005		<0.005
3/11/2020	0.00088 (J)	<0.005	0.00044 (J)	<0.005		<0.005
3/12/2020					0.0033 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2007		<0.005	<0.005	<0.005	<0.005	<0.005
11/18/2007				<0.005	<0.005	
11/19/2007						<0.005
11/20/2007		0.0079	<0.005			
1/16/2008						0.0086
1/30/2008		<0.005	<0.005	<0.005	<0.005	
3/5/2008				<0.005		<0.005
3/6/2008		<0.005	<0.005		<0.005	
5/7/2008				<0.005	<0.005	
5/8/2008			<0.005			
5/12/2008		<0.005				
5/13/2008						<0.005
12/12/2008	<0.005					
12/13/2008		0.015 (o)				0.012
12/14/2008			<0.005	<0.005	<0.005	
4/16/2009						0.008
4/23/2009	<0.005					
4/29/2009		<0.005	<0.005	<0.005	0.0057	
10/6/2009	<0.005					
10/20/2009		<0.005				
10/21/2009			<0.005			0.0081
10/22/2009				<0.005	<0.005	
4/21/2010			<0.005	<0.005	<0.005	
4/26/2010		<0.005				
5/3/2010	0.012 (o)					
9/28/2010			<0.005	<0.005		
9/29/2010		<0.005			<0.005	
10/5/2010						0.0067
10/11/2010	<0.005					
4/12/2011			<0.005	<0.005		
4/13/2011		<0.005			<0.005	
4/19/2011						<0.005
4/27/2011	<0.005					
10/4/2011			<0.005	<0.005	<0.005	
10/5/2011		<0.005				
10/12/2011						<0.005
10/19/2011	<0.005					
4/3/2012			<0.005	<0.005		
4/4/2012		<0.005			<0.005	
4/24/2012						0.0086
5/1/2012	<0.005					
10/2/2012	<0.005					<0.005
10/3/2012		<0.005		<0.005	<0.005	
10/8/2012			<0.005			
4/2/2013						<0.005
4/3/2013		<0.005	<0.005	<0.005	<0.005	
4/10/2013	<0.005					
10/9/2013				<0.005	0.006	0.0094
10/15/2013		<0.005	<0.005			
10/16/2013	<0.005					
4/1/2014						0.0097

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/2/2014				<0.005	0.005 (J)	
4/9/2014		<0.005	<0.005			
4/22/2014	<0.005					
10/1/2014	<0.005					
10/2/2014		<0.005	<0.005	<0.005	0.0036 (J)	0.0055
3/30/2015	<0.005					
4/1/2015				<0.005	0.0077	0.011
4/2/2015		<0.005	<0.005			
10/10/2015		<0.005				
10/11/2015	<0.005			<0.005	0.0071	
10/12/2015			<0.005			
10/14/2015						0.007
3/28/2016	<0.005					
3/31/2016		<0.005	<0.005			
4/4/2016				<0.005	0.00315 (J)	0.00645
5/25/2016	<0.005					
5/26/2016		<0.005	<0.005	<0.005	0.00313 (J)	
5/27/2016						0.00692
8/1/2016	<0.005					
8/3/2016			<0.005	<0.005		0.0068
8/4/2016					0.0032 (J)	
8/5/2016		<0.005				
9/26/2016	<0.005					
9/28/2016		<0.005	<0.005	<0.005	0.0029 (J)	
9/30/2016						0.0065
11/11/2016	<0.005					
11/22/2016		<0.005	<0.005	<0.005	0.0048 (J)	0.0066
1/30/2017	<0.005					
2/7/2017		<0.005	<0.005			
2/8/2017				<0.005	0.0022 (J)	
2/13/2017						0.0092
4/3/2017	<0.005					
4/10/2017		<0.005	<0.005	<0.005	0.002 (J)	
4/11/2017						0.0051
6/12/2017	<0.005					
6/14/2017		<0.005	<0.005			0.0056
6/15/2017				<0.005	0.0014 (J)	
10/2/2017	<0.005					
10/4/2017		0.0006 (J)	<0.005	<0.005	0.002 (J)	0.0068
3/16/2018	<0.005					
3/20/2018		0.00079 (J)				
3/21/2018			<0.005	0.00058 (J)		
3/22/2018					0.0022 (J)	0.0055
9/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064
3/19/2019	<0.005					
3/22/2019		<0.005	<0.005			
3/23/2019				<0.005	0.0016 (J)	0.0055
9/12/2019	<0.005					
9/17/2019		<0.005	<0.005	<0.005	0.0016 (J)	0.00465 (JD)
3/11/2020	<0.005					
3/12/2020		<0.005	<0.005	<0.005	0.0012 (J)	0.0053

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.005	<0.005				
8/23/2007					<0.005	<0.005
8/24/2007			<0.005	<0.005		
10/25/2007						<0.005
11/1/2007	<0.005	<0.005				
11/2/2007			<0.005	<0.005	<0.005	
11/17/2007			<0.005		<0.005	
11/18/2007				<0.005		
11/19/2007	<0.005	<0.005				<0.005
1/15/2008			<0.005	0.0077	<0.005	
1/23/2008						<0.005
1/31/2008	<0.005	<0.005				
3/5/2008	<0.005	<0.005	0.0079			
3/6/2008					<0.005	
3/10/2008				<0.005		
3/11/2008						<0.005
5/7/2008		<0.005	<0.005		<0.005	
5/12/2008	<0.005					<0.005
5/13/2008				<0.005		
12/2/2008			0.014 (o)	0.0061	<0.005	
12/11/2008						<0.005
12/12/2008		0.02 (o)				
12/13/2008	0.0096					
4/15/2009						<0.005
4/16/2009			0.0069			
4/28/2009	<0.005			<0.005	<0.005	
4/29/2009		0.0066				
10/9/2009						<0.005
10/19/2009					<0.005	
10/20/2009			0.0054	<0.005		
10/21/2009	<0.005	<0.005				
4/20/2010			<0.005			
4/27/2010				<0.005	<0.005	
4/28/2010	<0.005	0.016 (o)				
5/4/2010						<0.005
9/29/2010			<0.005			
10/4/2010					<0.005	
10/5/2010	<0.005			<0.005		
10/6/2010		<0.005				
10/12/2010						<0.005
4/12/2011			<0.005			
4/18/2011					<0.005	
4/19/2011	<0.005			<0.005		
4/20/2011		<0.005				
4/28/2011						<0.005
10/4/2011			<0.005			
10/12/2011		<0.005		<0.005	<0.005	
10/18/2011	<0.005					
10/19/2011						<0.005
4/4/2012			<0.005			
4/23/2012					<0.005	
4/25/2012	<0.005	<0.005		<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.005
10/2/2012	<0.005	<0.005				
10/9/2012						<0.005
10/10/2012			<0.005	<0.005	<0.005	
4/2/2013	<0.005	<0.005				
4/11/2013						<0.005
4/15/2013			<0.005		<0.005	
4/16/2013				<0.005		
10/8/2013	<0.005	<0.005				
10/16/2013						<0.005
10/22/2013			<0.005	<0.005	<0.005	
4/1/2014	<0.005	<0.005				
4/21/2014			<0.005	0.005 (J)	<0.005	
4/23/2014						<0.005
9/30/2014			<0.005	0.0025 (J)	<0.005	
10/1/2014	0.0022 (J)	0.0021 (J)				
10/3/2014						<0.005
3/31/2015		<0.005				<0.005
4/1/2015	<0.005					
4/3/2015			<0.005	<0.005	<0.005	
10/6/2015				<0.005		
10/7/2015			<0.005		<0.005	
10/12/2015						<0.005
10/14/2015		<0.005				
10/15/2015	<0.005					
3/28/2016						<0.005
4/4/2016	0.00124 (J)	0.00144 (JD)				
4/5/2016			<0.005	0.00105 (J)	<0.005	
5/25/2016						<0.005
5/31/2016	<0.005			0.00261 (J)	<0.005	
6/1/2016		0.0011 (JD)	<0.005			
8/1/2016						<0.005
8/4/2016	<0.005				<0.005	
8/9/2016			<0.005			
9/27/2016						<0.005
9/29/2016	<0.005				<0.005	
11/11/2016						<0.005
11/23/2016				<0.005	<0.005	
11/28/2016	<0.005		<0.005			
1/31/2017						<0.005
2/9/2017	<0.005		<0.005			
2/10/2017				<0.005	<0.005	
2/22/2017		<0.005				
4/3/2017						<0.005
4/11/2017		0.0011 (JD)	<0.005	0.0007 (J)		
4/12/2017	0.001 (J)				0.0005 (J)	
6/12/2017						0.0006 (J)
6/14/2017			<0.005			
6/15/2017				<0.005	<0.005	
6/16/2017	0.0007 (J)	0.0043 (JD)				
7/12/2017		0.0013 (JD)	<0.005	<0.005		
7/26/2017				<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		0.0013 (J)				
8/10/2017		0.0011 (J)				
10/3/2017						<0.005
10/5/2017			<0.005			
10/6/2017		0.0013 (JD)		0.0009 (J)	0.0008 (J)	
10/9/2017	0.0006 (J)					
3/19/2018						<0.005
3/21/2018	0.0013 (J)					
3/22/2018			0.00096 (J)			
3/23/2018		<0.005		<0.005	<0.005	
9/17/2018						<0.005
9/19/2018	<0.005		<0.005	<0.005	<0.005	
9/20/2018		<0.005				
3/20/2019						<0.005
3/22/2019		0.00097 (J)	<0.005	<0.005		
3/23/2019	0.00067 (J)					
3/25/2019					<0.005	
9/16/2019						<0.005
9/17/2019			<0.005	<0.005	<0.005	
9/18/2019	0.00052 (J)	0.00045 (X)				
3/13/2020	0.00096 (J)		<0.005	0.00052 (J)	0.00047 (J)	
3/16/2020						<0.005
3/17/2020		0.00067 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

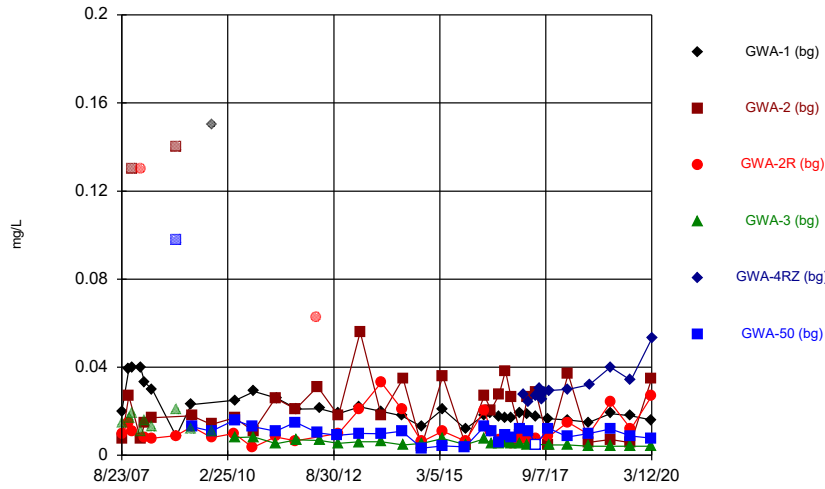
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.005					
8/23/2007						<0.005
10/25/2007	<0.005					
11/1/2007						<0.005
11/19/2007						<0.005
11/20/2007	<0.005					
1/15/2008						0.0086
1/23/2008	<0.005					
3/6/2008						<0.005
3/11/2008	<0.005					
5/13/2008						<0.005
5/14/2008	<0.005					
12/11/2008	<0.005					
12/12/2008						0.0065
4/16/2009						<0.005
4/23/2009	<0.005					
10/9/2009	<0.005					
10/13/2009						<0.005
4/21/2010						<0.005
5/4/2010	0.014 (o)					
9/29/2010						<0.005
10/11/2010	<0.005					
4/13/2011						<0.005
4/26/2011	<0.005					
10/5/2011						<0.005
10/18/2011	<0.005			<0.005		
4/4/2012						<0.005
4/30/2012				<0.005		
5/2/2012	<0.005					
10/3/2012				<0.005		
10/8/2012	<0.005					<0.005
4/8/2013				<0.005		<0.005
4/10/2013	<0.005					
10/8/2013	<0.005					
10/9/2013				<0.005		<0.005
4/9/2014						<0.005
4/10/2014				<0.005		
4/14/2014	<0.005					
9/30/2014						<0.005
10/2/2014				<0.005		
10/3/2014	<0.005					
4/1/2015	<0.005					
4/2/2015						<0.005
4/3/2015				<0.005		
5/26/2015		<0.005			<0.005	
6/18/2015		<0.005 (D)			<0.005 (D)	
7/2/2015		<0.005			<0.005	
10/8/2015				0.0029 (J)	<0.005	
10/9/2015	<0.005	<0.005				
10/10/2015						<0.005 (D)
3/22/2016					<0.005	
3/29/2016	<0.005	<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

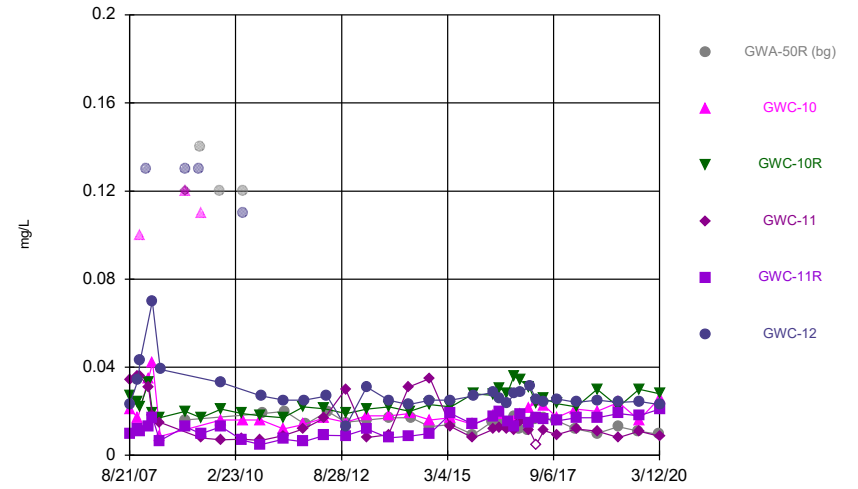
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.005		0.0241 (o)
5/24/2016	<0.005	<0.005		<0.005		
5/25/2016					<0.005	
5/26/2016						<0.005
5/31/2016			<0.005			
8/1/2016	<0.005	<0.005				
8/2/2016			0.0031 (J)	<0.005	<0.005	
8/5/2016						<0.005
9/26/2016	<0.005	<0.005			<0.005	
9/27/2016			0.0028 (J)	<0.005		
9/28/2016						<0.005
11/14/2016		<0.005				
11/18/2016	<0.005					
11/21/2016			0.0031 (J)		<0.005	<0.005
11/22/2016				<0.005		
2/1/2017	<0.005	<0.005	0.0031 (J)			
2/3/2017					<0.005	
2/6/2017				<0.005		<0.005
4/6/2017	0.0006 (J)	<0.005	0.003 (J)	<0.005		<0.005
4/7/2017					<0.005	
6/13/2017	<0.005	<0.005	0.0024 (J)		<0.005	<0.005
6/14/2017				<0.005		
7/14/2017			0.0029 (J)			
10/3/2017	<0.005	<0.005	0.0018 (J)		<0.005	<0.005
10/4/2017				<0.005		
3/19/2018	0.00089 (J)					
3/20/2018		<0.005	0.0024 (J)		0.0006 (J)	<0.005
3/21/2018				0.00077 (J)		
9/17/2018	<0.005	<0.005				
9/18/2018			<0.005	<0.005	<0.005	<0.005 (D)
3/21/2019	<0.005	<0.005	0.00077 (J)			<0.005
3/27/2019				<0.005		
5/6/2019					0.00063 (J)	
9/13/2019			0.0017 (J)			
9/16/2019	0.00071 (J)	0.00038 (J)		0.0004 (JD)	0.00043 (J)	0.00044 (J)
3/12/2020	0.00055 (J)	<0.005	0.00044 (J)	0.00039 (J)		<0.005
3/16/2020					<0.005	

Time Series



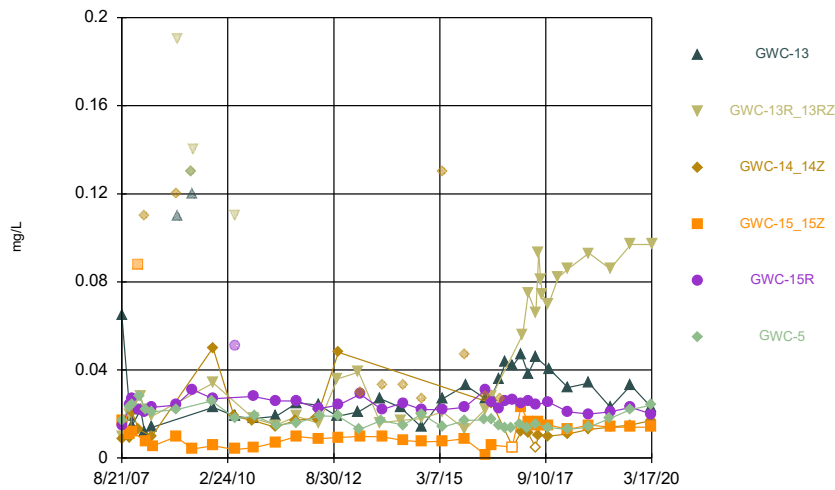
Constituent: Barium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



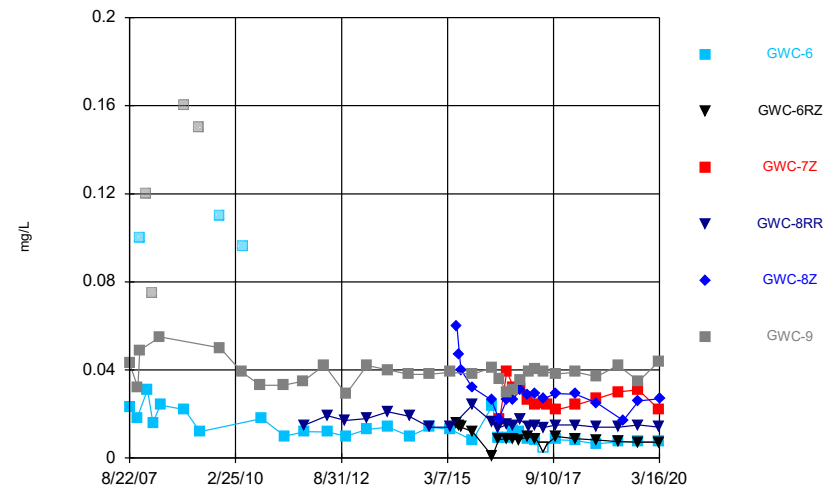
Constituent: Barium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Barium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Barium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	0.02	0.0073	0.0098	0.015 (o)		
10/23/2007	0.039					
10/24/2007		0.027	0.015			
11/2/2007				0.017 (o)		
11/18/2007	0.04 (J)	0.13 (o)	0.011	0.019 (o)		
1/30/2008	0.04					
1/31/2008		0.0077	0.13 (O)	0.011 (o)		
3/10/2008	0.033		0.0078			
3/11/2008		0.015		0.016 (o)		
5/6/2008		0.017				
5/13/2008	0.03		0.0077			
5/14/2008				0.013 (o)		
12/4/2008		0.14 (o)	0.0089			
12/5/2008	0.0087			0.021 (o)		
12/12/2008						0.098 (o)
4/15/2009	0.023			0.012 (o)		
4/21/2009		0.018	0.013			
4/23/2009						0.013
10/6/2009						0.011
10/7/2009	0.15 (o)	0.014				
10/8/2009			0.008	0.011 (o)		
4/21/2010			0.01			
4/26/2010		0.017				
4/27/2010						0.016
4/28/2010				0.0081		
5/3/2010	0.025					
9/28/2010			0.0036			
9/30/2010						0.013
10/4/2010		0.011				
10/6/2010				0.0083		
10/12/2010	0.029					
4/12/2011			0.0084			
4/13/2011		0.026				
4/14/2011						0.011
4/21/2011				0.0053		
4/27/2011	0.026					
10/4/2011			0.0066			
10/5/2011		0.021				0.015
10/13/2011				0.0071		
10/17/2011	0.021					
4/3/2012			0.0625 (O)			
4/11/2012		0.0311				0.0102
5/1/2012				0.0067		
5/2/2012	0.0212					
10/2/2012						0.0091
10/8/2012	0.019					
10/9/2012		0.018	0.01	0.0055		
4/9/2013						0.01
4/11/2013			0.021	0.0061		
4/12/2013	0.022					
4/15/2013		0.056				
10/15/2013		0.018				0.0098

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	0.02		0.033	0.0062		
4/10/2014			0.021			0.011
4/11/2014	0.018					
4/22/2014		0.035				
4/23/2014				0.0047		
9/30/2014	0.013	0.0041	0.0062			
10/1/2014						0.0033
10/4/2014				0.0055		
3/30/2015	0.021	0.036	0.011			0.0043
3/31/2015				0.0076		
10/11/2015						0.0038
10/12/2015				0.0049		
10/13/2015	0.012	0.0048	0.0065			
3/22/2016	0.0182					
3/23/2016		0.0271	0.0206	0.00742 (J)		
3/28/2016						0.0133
5/19/2016	0.0193		0.0109			
5/20/2016		0.0206				
5/23/2016				0.00532 (J)		0.0109
7/29/2016	0.0174	0.0275	0.007 (J)	0.0053 (J)		
8/1/2016						0.0058 (J)
9/22/2016			0.0071 (J)	0.0058 (J)		
9/23/2016	0.0168	0.0384				
9/26/2016						0.0092 (J)
11/9/2016	0.0171	0.0266				
11/10/2016			0.0052 (J)	0.0051 (J)		0.0083 (J)
1/30/2017	0.019					0.0117
1/31/2017		0.0094 (J)	0.0076 (J)	0.0054 (J)		
2/22/2017					0.0273	
3/30/2017	0.0184	0.0262		0.0049 (J)		
4/3/2017			0.007 (J)			
4/7/2017					0.024	0.0109
6/9/2017	0.0174		0.0074 (J)			
6/12/2017		0.0288		<0.01		<0.01
6/14/2017					0.027	
7/12/2017					0.027	
7/20/2017					0.0304	
7/28/2017					0.0269	
8/9/2017					0.0254	
8/24/2017					0.0285	
10/2/2017	0.0167	0.0048 (J)	0.0085 (J)			0.0122
10/3/2017					0.0294	
10/4/2017				0.0047 (J)		
3/16/2018	0.016		0.015			0.0084 (J)
3/19/2018		0.037		0.0047 (J)		
3/21/2018					0.03	
9/14/2018		0.0059 (J)	0.0095 (J)			
9/17/2018	0.015 (D)			0.0041 (J)		0.01
9/18/2018					0.032	
3/19/2019			0.024			0.012
3/20/2019	0.019	0.0072 (J)		0.0042 (J)		
3/21/2019					0.04	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	0.018	0.0058 (JD)			0.034	
9/13/2019			0.012	0.0042 (J)		0.0088 (J)
3/11/2020	0.016	0.035	0.027	0.0041 (J)		0.0077 (J)
3/12/2020					0.053	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		0.021	0.027	0.034	0.01	0.023
11/1/2007		0.017	0.024	0.036	0.012	0.034
11/18/2007				0.036	0.011	
11/19/2007						0.043
11/20/2007		0.1 (o)	0.022			
1/16/2008						0.13 (o)
1/30/2008		0.035	0.033 (J)	0.031 (J)	0.013	
3/5/2008				0.018		0.07
3/6/2008		0.042	0.019		0.017	
5/7/2008				0.015	0.0066	
5/8/2008			0.017			
5/12/2008		0.0087				
5/13/2008						0.039
12/12/2008	0.016					
12/13/2008		0.12 (o)				0.13 (o)
12/14/2008			0.02	0.12 (o)	0.013	
4/16/2009						0.13 (o)
4/23/2009	0.14 (O)					
4/29/2009		0.11 (o)	0.017	0.0079	0.0098	
10/6/2009	0.12 (O)					
10/20/2009		0.016				
10/21/2009			0.021			0.033
10/22/2009				0.007	0.013	
4/21/2010			0.019	0.0074	0.0069	
4/26/2010		0.016				
4/27/2010						0.11 (o)
5/3/2010	0.12 (O)					
9/28/2010			0.018	0.0068		
9/29/2010		0.016			0.0049	
10/5/2010						0.027
10/11/2010	0.019					
4/12/2011			0.017	0.0089		
4/13/2011		0.012			0.0074	
4/19/2011						0.025
4/27/2011	0.02					
10/4/2011			0.022	0.012	0.0062	
10/5/2011		0.014				
10/12/2011						0.025
10/19/2011	0.014					
4/3/2012			0.0212	0.0169		
4/4/2012		0.017			0.0091	
4/24/2012						0.027
5/1/2012	0.0199					
10/2/2012	0.015					0.013
10/3/2012		0.015		0.03	0.0089	
10/8/2012			0.019			
4/2/2013						0.031
4/3/2013		0.018	0.021	0.008	0.012	
4/10/2013	0.016					
10/9/2013				0.0093	0.0079	0.025
10/15/2013		0.018	0.022			
10/16/2013	0.017					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						0.023
4/2/2014				0.031	0.0086	
4/9/2014		0.019	0.02			
4/22/2014	0.017					
10/1/2014	0.013					
10/2/2014		0.016	0.023	0.035	0.01	0.025
3/30/2015	0.014					
4/1/2015				0.013	0.019	0.025
4/2/2015		0.017	0.022			
10/10/2015		0.014				
10/11/2015	0.0093			0.0079	0.014	
10/12/2015			0.028			
10/14/2015						0.027
3/28/2016	0.0155					
3/31/2016		0.0179	0.0273			
4/4/2016				0.0119	0.0176	0.0285
5/25/2016	0.0143					
5/26/2016		0.0186	0.0305	0.0127	0.0195	
5/27/2016						0.0257
8/1/2016	0.0129					
8/3/2016			0.0284	0.0121		0.0237
8/4/2016					0.0151	
8/5/2016		0.0138				
9/26/2016	0.0177					
9/28/2016		0.0153	0.036	0.0112	0.0132	
9/30/2016						0.0279
11/11/2016	0.0117					
11/22/2016		0.0184 (J)	0.0341 (J)	0.0155 (J)	0.0186 (J)	0.0286 (J)
1/30/2017	0.0113					
2/7/2017		0.0215	0.0309			
2/8/2017				0.0115	0.015	
2/13/2017						0.0313
4/3/2017	0.0166					
4/10/2017		0.0247	0.0235	<0.01	0.0172	
4/11/2017						0.0254
6/12/2017	0.017					
6/14/2017		0.0227	0.0258			0.0241
6/15/2017				0.0112	0.0167	
10/2/2017	0.0157					
10/4/2017		0.0172	0.0234	0.0093 (J)	0.0156	0.0256
3/16/2018	0.012					
3/20/2018		0.021				
3/21/2018			0.022	0.012		
3/22/2018					0.017	0.024
9/18/2018	0.0099 (J)	0.02	0.03	0.011	0.017	0.025
3/19/2019	0.013					
3/22/2019		0.024	0.022			
3/23/2019				0.0081 (J)	0.019	0.024
9/12/2019	0.011					
9/17/2019		0.016	0.03	0.011	0.018	0.0245 (D)
3/11/2020	0.0095 (J)					
3/12/2020		0.026	0.028	0.0086 (J)	0.021	0.023

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	0.065	0.0095				
8/23/2007					0.015	0.017
8/24/2007			0.0089	0.017		
10/25/2007						0.023
11/1/2007	0.019	0.02				
11/2/2007			0.0091	0.011	0.024	
11/17/2007			0.021		0.027	
11/18/2007				0.012 (J)		
11/19/2007	0.015	0.023				0.024
1/15/2008			0.013	0.088 (o)	0.022	
1/23/2008						0.028
1/31/2008	0.022	0.028				
3/5/2008	0.012	0.022	0.11 (o)			
3/6/2008					0.021	
3/10/2008				0.0077		
3/11/2008						0.022
5/7/2008		0.019	0.01		0.023	
5/12/2008	0.014					0.021
5/13/2008				0.0055		
12/2/2008			0.12 (o)	0.0097	0.024	
12/11/2008						0.022
12/12/2008		0.19 (O)				
12/13/2008	0.11 (o)					
4/15/2009						0.13 (o)
4/16/2009			0.13 (o)			
4/28/2009	0.12 (o)			0.0042	0.031	
4/29/2009		0.14 (O)				
10/9/2009						0.026
10/19/2009					0.027	
10/20/2009			0.05	0.0056		
10/21/2009	0.023	0.034				
4/20/2010			0.019			
4/27/2010				0.0039	0.051 (o)	
4/28/2010	0.019	0.11 (O)				
5/4/2010						0.018
9/29/2010			0.017			
10/4/2010					0.028	
10/5/2010	0.018			0.0047		
10/6/2010		0.018				
10/12/2010						0.019
4/12/2011			0.014			
4/18/2011					0.026	
4/19/2011	0.019			0.0071		
4/20/2011		0.015				
4/28/2011						0.015
10/4/2011			0.017			
10/12/2011		0.019		0.0098	0.026	
10/18/2011	0.025					
10/19/2011						0.016
4/4/2012			0.0182			
4/23/2012					0.0224	
4/25/2012	0.024	0.0158		0.0088		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						0.0191
10/2/2012	0.019	0.036				
10/9/2012						0.019
10/10/2012			0.048	0.0093	0.024	
4/2/2013	0.021	0.039				
4/11/2013						0.013
4/15/2013			0.03 (o)		0.029	
4/16/2013				0.0098		
10/8/2013	0.027	0.016				
10/16/2013						0.017
10/22/2013			0.033 (o)	0.0097	0.022	
4/1/2014	0.023	0.017				
4/21/2014			0.033 (o)	0.008	0.025	
4/23/2014						0.015
9/30/2014			0.027 (o)	0.0074	0.022	
10/1/2014	0.014	0.018				
10/3/2014						0.02
3/31/2015		0.021				0.014
4/1/2015	0.027					
4/3/2015			0.13 (o)	0.0076	0.022	
10/6/2015				0.0088		
10/7/2015			0.047 (o)		0.023	
10/12/2015						0.017
10/14/2015		0.013				
10/15/2015	0.033					
3/28/2016						0.0173
4/4/2016	0.027	0.0222				
4/5/2016			0.0279 (o)	0.00153 (J)	0.0308	
5/25/2016						0.0175
5/31/2016	0.0283			0.00589 (J)	0.0255	
6/1/2016		0.0283	0.0249			
8/1/2016						0.0145
8/4/2016	0.0358				0.0227	
8/9/2016			0.0268 (o)			
9/27/2016						0.0139
9/29/2016	0.0437				0.0258	
11/11/2016						0.0135
11/23/2016				<0.01	0.0263 (J)	
11/28/2016	0.0419 (J)		<0.01			
1/31/2017						0.0153
2/9/2017	0.0472		0.0119			
2/10/2017				0.0233	0.025	
2/22/2017		0.0561				
4/3/2017						0.0135
4/11/2017		0.0748	0.0112 (D)	0.0162		
4/12/2017	0.0383				0.026	
6/12/2017						0.0154
6/14/2017			<0.01			
6/15/2017				0.0148	0.0244	
6/16/2017	0.0457	0.0661				
7/12/2017		0.0932	0.0105	0.0166		
7/26/2017				0.0146		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		0.0808				
8/10/2017		0.0743				
10/3/2017						0.0138
10/5/2017			0.0099 (J)			
10/6/2017		0.0699		0.015	0.0254	
10/9/2017	0.0406					
12/28/2017		0.082 (Y)				
3/19/2018						0.013
3/21/2018	0.032					
3/22/2018			0.011			
3/23/2018		0.086		0.013	0.021	
9/17/2018						0.014
9/19/2018	0.034		0.013	0.015	0.02	
9/20/2018		0.093				
3/20/2019						0.018
3/22/2019		0.086	0.014	0.014		
3/23/2019	0.023					
3/25/2019					0.021	
9/16/2019						0.022
9/17/2019			0.015	0.014	0.023	
9/18/2019	0.033	0.097				
3/13/2020	0.023		0.017	0.014	0.02	
3/16/2020						0.024
3/17/2020		0.097				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

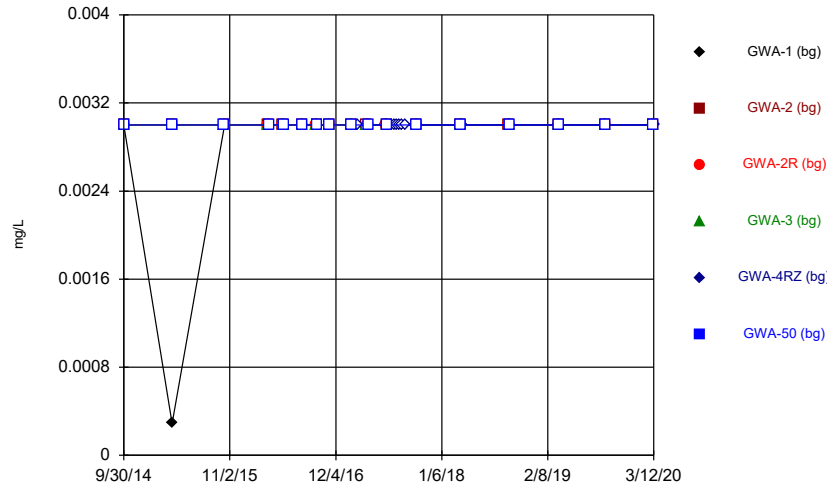
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	0.023					
8/23/2007						0.043
10/25/2007	0.018					
11/1/2007						0.032
11/19/2007						0.049 (J)
11/20/2007	0.1 (o)					
1/15/2008						0.12 (o)
1/23/2008	0.031					
3/6/2008						0.075 (o)
3/11/2008	0.016					
5/13/2008						0.055
5/14/2008	0.024					
12/11/2008	0.022					
12/12/2008						0.16 (o)
4/16/2009						0.15 (o)
4/23/2009	0.012					
10/9/2009	0.11 (o)					
10/13/2009						0.05
4/21/2010						0.039
5/4/2010	0.096 (o)					
9/29/2010						0.033
10/11/2010	0.018					
4/13/2011						0.033
4/26/2011	0.01					
10/5/2011						0.035
10/18/2011	0.012			0.015		
4/4/2012						0.0422
4/30/2012				0.0192		
5/2/2012	0.0119					
10/3/2012				0.017		
10/8/2012	0.01					0.029
4/8/2013				0.018		0.042
4/10/2013	0.013					
10/8/2013	0.014					
10/9/2013				0.021		0.04
4/9/2014						0.038
4/10/2014				0.019		
4/14/2014	0.01					
9/30/2014						0.038
10/2/2014				0.014		
10/3/2014	0.014					
4/1/2015	0.013					
4/2/2015						0.039
4/3/2015				0.014		
5/26/2015		0.016			0.06	
6/18/2015		0.015 (D)			0.047 (D)	
7/2/2015		0.014			0.04	
10/8/2015				0.024	0.032	
10/9/2015	0.008	0.012				
10/10/2015						0.038 (D)
3/22/2016					0.0263	
3/29/2016	0.0239 (J)	0.000768 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

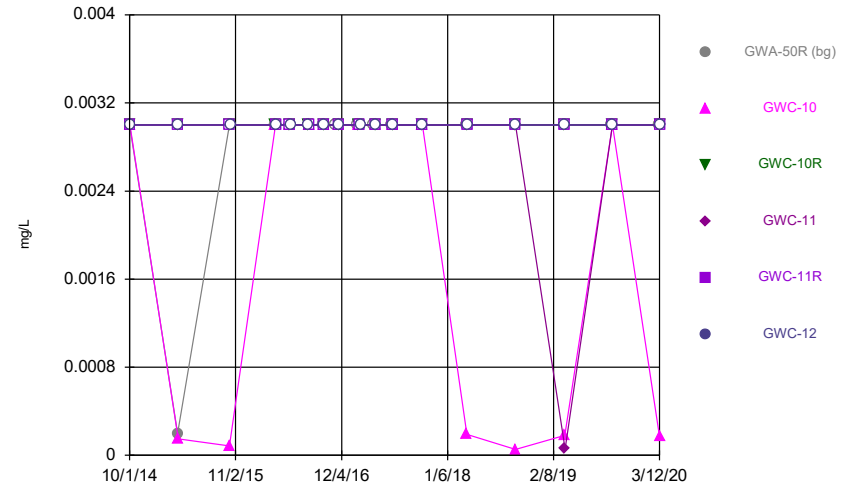
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				0.0163		0.0412
5/24/2016	0.00902 (J)	0.00847 (J)		0.0137		
5/25/2016					0.0178	
5/26/2016						0.0357
5/31/2016			0.0178			
8/1/2016	0.0091 (J)	0.0086 (J)				
8/2/2016			0.0394	0.0152	0.0265	
8/5/2016						0.03
9/26/2016	0.0124	0.0086 (J)			0.0267	
9/27/2016			0.032	0.0147		
9/28/2016						0.0308
11/14/2016		0.0083 (J)				
11/18/2016	0.0117					
11/21/2016			0.0316 (J)		0.0309 (J)	0.0356 (J)
11/22/2016				0.0174 (J)		
2/1/2017	0.0086 (J)	0.0096 (J)	0.0264			
2/3/2017					0.0289	
2/6/2017				0.0144		0.0391
4/6/2017	0.0083 (J)	0.0087 (J)	0.0245	0.0149		0.0402
4/7/2017					0.029	
6/13/2017	<0.01	<0.01	0.0247		0.027	0.0394
6/14/2017				0.0139		
7/14/2017			0.0245			
10/3/2017	0.0084 (J)	0.0098 (J)	0.0218		0.0292	0.0381
10/4/2017				0.015		
3/19/2018	0.0079 (J)					
3/20/2018		0.0088 (J)	0.024		0.029	0.039
3/21/2018				0.015		
9/17/2018	0.0065 (J)	0.0082 (J)				
9/18/2018			0.027	0.014	0.025	0.037
3/21/2019	0.0074 (J)	0.0075 (J)	0.03			0.042
3/27/2019				0.014		
5/6/2019					0.017	
9/13/2019			0.031			
9/16/2019	0.0075 (J)	0.0072 (J)		0.015 (D)	0.026	0.035
3/12/2020	0.0075 (J)	0.0072 (J)	0.022	0.014		0.044
3/16/2020					0.027	

Time Series



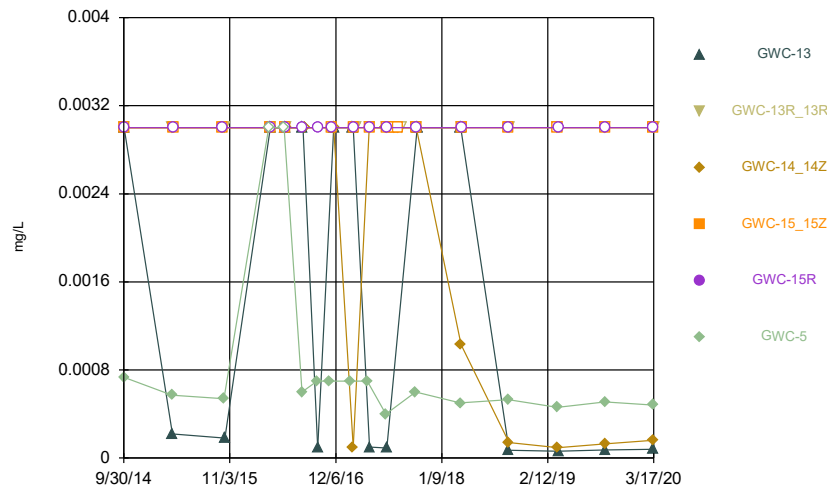
Constituent: Beryllium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



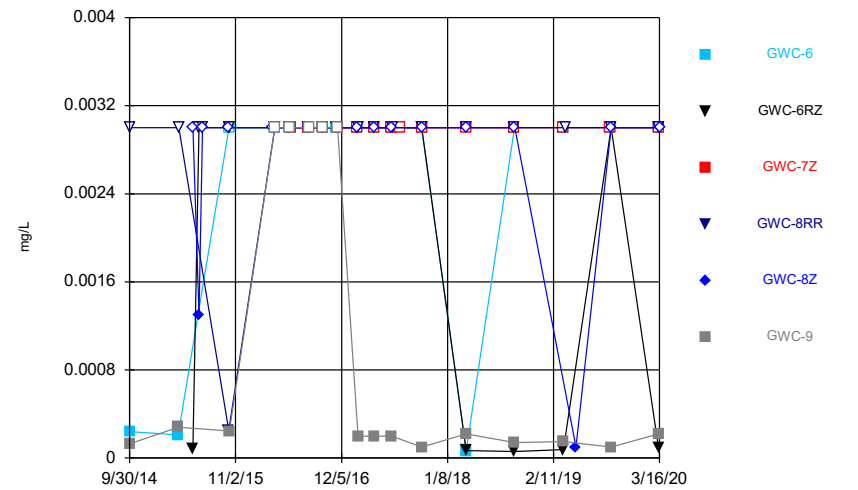
Constituent: Beryllium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Beryllium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Beryllium Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/30/2014	<0.003	<0.003	<0.003			
10/1/2014						<0.003
10/4/2014				<0.003		
3/30/2015	0.00029 (J)	<0.003	<0.003			<0.003
3/31/2015				<0.003		
10/11/2015						<0.003
10/12/2015				<0.003		
10/13/2015	<0.003	<0.003	<0.003			
3/22/2016	<0.003					
3/23/2016		<0.003	<0.003	<0.003		
3/28/2016						<0.003
5/19/2016	<0.003		<0.003			
5/20/2016		<0.003				
5/23/2016				<0.003		<0.003
7/29/2016	<0.003	<0.003	<0.003	<0.003		
8/1/2016						<0.003
9/22/2016			<0.003	<0.003		
9/23/2016	<0.003	<0.003				
9/26/2016						<0.003
11/9/2016	<0.003	<0.003				
11/10/2016			<0.003	<0.003		<0.003
1/30/2017	<0.003					<0.003
1/31/2017		<0.003	<0.003	<0.003		
2/22/2017					<0.003	
3/30/2017	<0.003	<0.003		<0.003		
4/3/2017			<0.003			
4/7/2017					<0.003	<0.003
6/9/2017	<0.003		<0.003			
6/12/2017		<0.003		<0.003		<0.003
6/14/2017					<0.003	
7/12/2017					<0.003	
7/20/2017					<0.003	
7/28/2017					<0.003	
8/9/2017					<0.003	
8/24/2017					<0.003	
10/2/2017	<0.003	<0.003	<0.003			<0.003
10/3/2017					<0.003	
10/4/2017				<0.003		
3/16/2018	<0.003		<0.003			<0.003
3/19/2018		<0.003		<0.003		
3/21/2018					<0.003	
9/14/2018		<0.003	<0.003			
9/17/2018	<0.003 (D)			<0.003		<0.003
9/18/2018					<0.003	
3/19/2019			<0.003			<0.003
3/20/2019	<0.003	<0.003		<0.003		
3/21/2019					<0.003	
9/12/2019	<0.003	<0.003 (D)			<0.003	
9/13/2019			<0.003	<0.003		<0.003
3/11/2020	<0.003	<0.003	<0.003	<0.003		<0.003
3/12/2020					<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
10/1/2014	<0.003					
10/2/2014		<0.003	<0.003	<0.003	<0.003	<0.003
3/30/2015	0.0002 (J)					
4/1/2015				<0.003	<0.003	<0.003
4/2/2015		0.00015 (J)	<0.003			
10/10/2015		8.5E-05 (J)				
10/11/2015	<0.003			<0.003	<0.003	
10/12/2015			<0.003			
10/14/2015						<0.003
3/28/2016	<0.003					
3/31/2016		<0.003	<0.003			
4/4/2016				<0.003	<0.003	<0.003
5/25/2016	<0.003					
5/26/2016		<0.003	<0.003	<0.003	<0.003	
5/27/2016						<0.003
8/1/2016	<0.003					
8/3/2016			<0.003	<0.003		<0.003
8/4/2016					<0.003	
8/5/2016		<0.003				
9/26/2016	<0.003					
9/28/2016		<0.003	<0.003	<0.003	<0.003	
9/30/2016						<0.003
11/11/2016	<0.003					
11/22/2016		<0.003	<0.003	<0.003	<0.003	<0.003
1/30/2017	<0.003					
2/7/2017		<0.003	<0.003			
2/8/2017				<0.003	<0.003	
2/13/2017						<0.003
4/3/2017	<0.003					
4/10/2017		<0.003	<0.003	<0.003	<0.003	
4/11/2017						<0.003
6/12/2017	<0.003					
6/14/2017		<0.003	<0.003			<0.003
6/15/2017				<0.003	<0.003	
10/2/2017	<0.003					
10/4/2017		<0.003	<0.003	<0.003	<0.003	<0.003
3/16/2018	<0.003					
3/20/2018		0.00019 (J)				
3/21/2018			<0.003	<0.003		
3/22/2018					<0.003	<0.003
9/18/2018	<0.003	5.4E-05 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2019	<0.003					
3/22/2019		0.00018 (J)	<0.003			
3/23/2019				5.7E-05 (J)	<0.003	<0.003
9/12/2019	<0.003					
9/17/2019		<0.003	<0.003	<0.003	<0.003	<0.003 (D)
3/11/2020	<0.003					
3/12/2020		0.00017 (J)	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
9/30/2014			<0.003	<0.003	<0.003	
10/1/2014	<0.003	<0.003				
10/3/2014						0.00073 (J)
3/31/2015		<0.003				0.00057 (J)
4/1/2015	0.00022 (J)					
4/3/2015			<0.003	<0.003	<0.003	
10/6/2015				<0.003		
10/7/2015			<0.003		<0.003	
10/12/2015						0.00054 (J)
10/14/2015		<0.003				
10/15/2015	0.00018 (J)					
3/28/2016						<0.003
4/4/2016	<0.003	<0.003 (D)				
4/5/2016			<0.003	<0.003	<0.003	
5/25/2016						<0.003
5/31/2016	<0.003			<0.003	<0.003	
6/1/2016		<0.003 (D)	<0.003			
8/1/2016						0.0006 (J)
8/4/2016	<0.003				<0.003	
8/9/2016			<0.003			
9/27/2016						0.0007 (J)
9/29/2016	9E-05 (J)				<0.003	
11/11/2016						0.0007 (J)
11/23/2016				<0.003	<0.003	
11/28/2016	<0.003		<0.003			
1/31/2017						0.0007 (J)
2/9/2017	<0.003		0.0001 (J)			
2/10/2017				<0.003	<0.003	
2/22/2017		<0.003				
4/3/2017						0.0007 (J)
4/11/2017		<0.003	<0.003	<0.003		
4/12/2017	0.0001 (J)				<0.003	
6/12/2017						0.0004 (J)
6/14/2017			<0.003			
6/15/2017				<0.003	<0.003	
6/16/2017	9E-05 (J)	<0.003				
7/12/2017		<0.003	<0.003	<0.003		
7/26/2017				<0.003		
7/28/2017		<0.003				
8/10/2017		<0.003				
10/3/2017						0.0006 (J)
10/5/2017			<0.003			
10/6/2017		<0.003		<0.003	<0.003	
10/9/2017	<0.003					
3/19/2018						0.0005 (J)
3/21/2018	<0.003					
3/22/2018			0.00103 (D)			
3/23/2018		<0.003		<0.003	<0.003	
9/17/2018						0.00053 (J)
9/19/2018	7E-05 (J)		0.00014 (J)	<0.003	<0.003	
9/20/2018		<0.003				
3/20/2019						0.00046 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

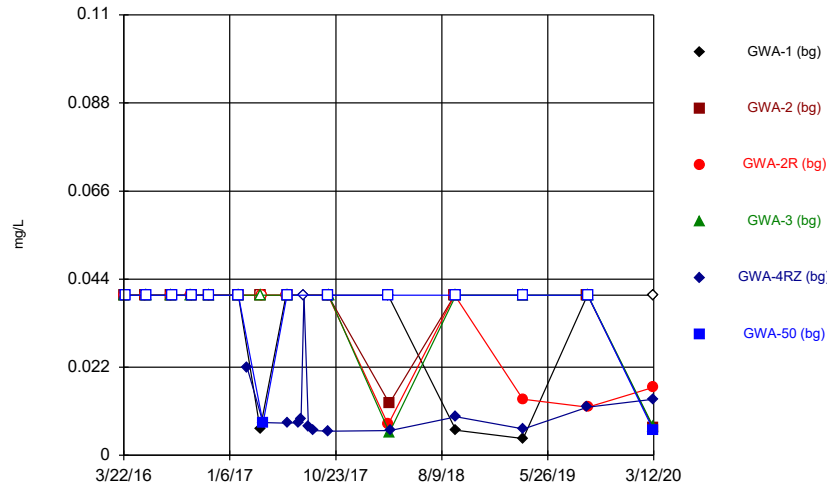
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/22/2019		<0.003	9.4E-05 (J)	<0.003		
3/23/2019	6.1E-05 (J)					
3/25/2019					<0.003	
9/16/2019						0.00051 (J)
9/17/2019			0.00013 (X)	<0.003	<0.003	
9/18/2019	7.4E-05 (J)	<0.003				
3/13/2020	8E-05 (J)		0.00016 (J)	<0.003	<0.003	
3/16/2020						0.00048 (J)
3/17/2020		<0.003				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

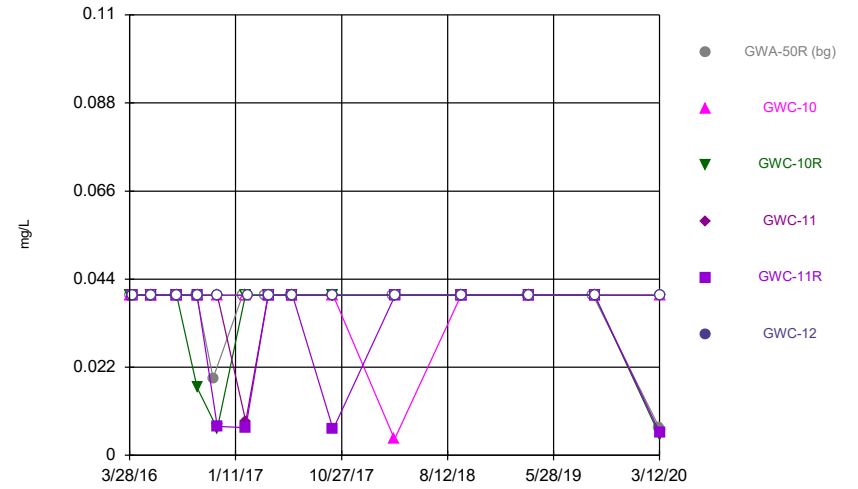
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
9/30/2014						0.00013 (J)
10/2/2014				<0.003		
10/3/2014	0.00024 (J)					
4/1/2015	0.00021 (J)					
4/2/2015						0.00028 (J)
4/3/2015				<0.003		
5/26/2015		8.8E-05 (J)			<0.003	
6/18/2015		<0.003 (D)			0.0013 (D)	
7/2/2015		<0.003			<0.003	
10/8/2015				0.00025 (J)	<0.003	
10/9/2015	<0.003	<0.003				
10/10/2015						0.000245 (JD)
3/22/2016					<0.003	
3/29/2016	<0.003	<0.003				
3/30/2016				<0.003		<0.003
5/24/2016	<0.003	<0.003		<0.003		
5/25/2016					<0.003	
5/26/2016						<0.003
5/31/2016			<0.003			
8/1/2016	<0.003	<0.003				
8/2/2016			<0.003	<0.003	<0.003	
8/5/2016						<0.003
9/26/2016	<0.003	<0.003			<0.003	
9/27/2016			<0.003	<0.003		
9/28/2016						<0.003
11/14/2016		<0.003				
11/18/2016	<0.003					
11/21/2016			<0.003		<0.003	<0.003
11/22/2016				<0.003		
2/1/2017	<0.003	<0.003	<0.003			
2/3/2017					<0.003	
2/6/2017				<0.003		0.0002 (J)
4/6/2017	<0.003	<0.003	<0.003	<0.003		0.0002 (J)
4/7/2017					<0.003	
6/13/2017	<0.003	<0.003	<0.003		<0.003	0.0002 (J)
6/14/2017				<0.003		
7/14/2017			<0.003			
10/3/2017	<0.003	<0.003	<0.003		<0.003	0.0001 (J)
10/4/2017				<0.003		
3/19/2018	6.6E-05 (J)					
3/20/2018		6.8E-05 (J)	<0.003		<0.003	0.00022 (J)
3/21/2018				<0.003		
9/17/2018	<0.003	5.8E-05 (J)				
9/18/2018			<0.003	<0.003	<0.003	0.00014 (JD)
3/21/2019	<0.003	7.6E-05 (J)	<0.003			0.00015 (J)
3/27/2019				<0.003		
5/6/2019					0.0001 (J)	
9/13/2019			<0.003			
9/16/2019	<0.003	<0.003		<0.003 (D)	<0.003	0.0001 (J)
3/12/2020	<0.003	9.3E-05 (J)	<0.003	<0.003		0.00022 (J)
3/16/2020					<0.003	

Time Series



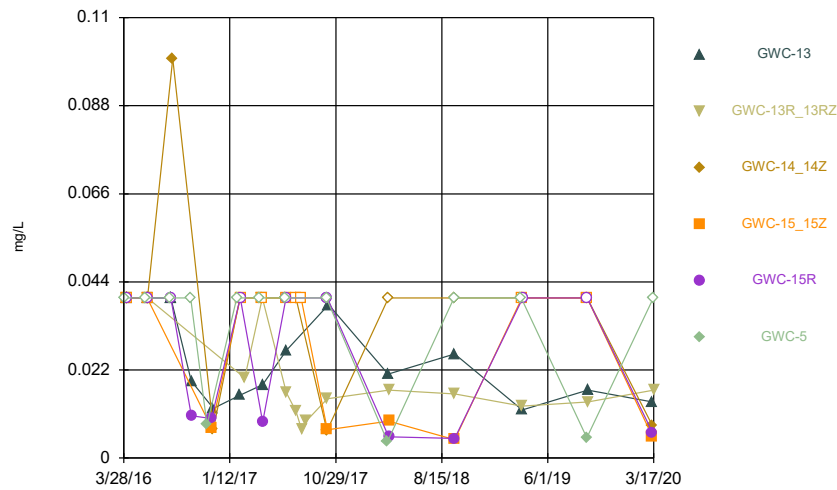
Constituent: Boron Analysis Run 4/7/2020 9:53 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



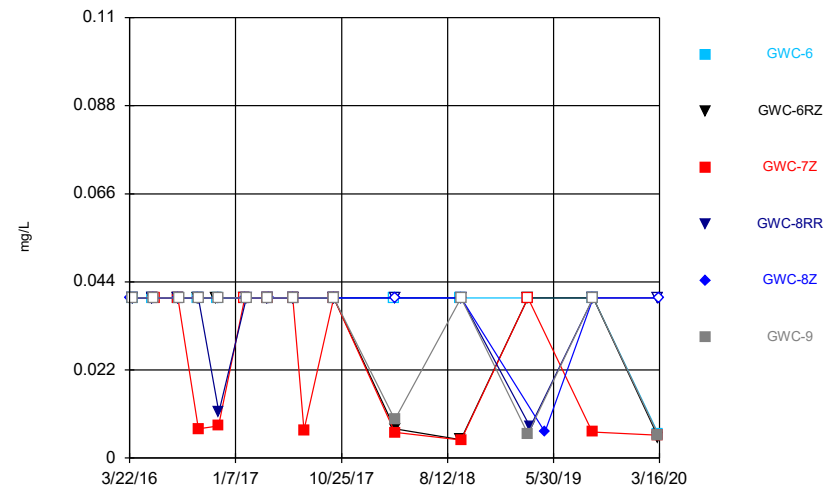
Constituent: Boron Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Boron Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Boron Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Boron (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	<0.04					
3/23/2016		<0.04	<0.04	<0.04		
3/28/2016						<0.04
5/19/2016	<0.04		<0.04			
5/20/2016		<0.04				
5/23/2016				<0.04		<0.04
7/29/2016	<0.04	<0.04	<0.04	<0.04		
8/1/2016						<0.04
9/22/2016			<0.04	<0.04		
9/23/2016	<0.04	<0.04				
9/26/2016						<0.04
11/9/2016	<0.04	<0.04				
11/10/2016			<0.04	<0.04		<0.04
1/30/2017	<0.04					<0.04
1/31/2017		<0.04	<0.04	<0.04		
2/22/2017					0.022 (J)	
3/30/2017	0.0065 (J)	<0.04		<0.04		
4/3/2017			<0.04			
4/7/2017					0.0082 (J)	0.008 (J)
6/9/2017	<0.04		<0.04			
6/12/2017		<0.04		<0.04		<0.04
6/14/2017					0.008 (J)	
7/12/2017					0.0082 (J)	
7/20/2017					0.0091 (J)	
7/28/2017					<0.04	
8/9/2017					0.0071 (J)	
8/24/2017					0.0062 (J)	
10/2/2017	<0.04	<0.04	<0.04			<0.04
10/3/2017					0.006 (J)	
10/4/2017				<0.04		
3/16/2018	<0.04		0.0077 (J)			<0.04
3/19/2018		0.013 (J)		0.0057 (J)		
3/21/2018					0.0062 (J)	
9/14/2018		<0.04	<0.04			
9/17/2018	0.00625 (JD)			<0.04		<0.04
9/18/2018					0.0096 (J)	
3/19/2019			0.014 (J)			<0.04
3/20/2019	0.0042 (J)	<0.04		<0.04		
3/21/2019					0.0066 (J)	
9/12/2019	<0.04	<0.04 (D)			0.012 (J)	
9/13/2019			0.012 (J)	<0.04		<0.04
3/11/2020	<0.04	0.0068 (J)	0.017 (J)	0.0071 (J)		0.0063 (J)
3/12/2020					0.014 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	<0.04					
3/31/2016		<0.04	<0.04			
4/4/2016				<0.04	<0.04	<0.04
5/25/2016	<0.04					
5/26/2016		<0.04	<0.04	<0.04	<0.04	
5/27/2016						<0.04
8/1/2016	<0.04					
8/3/2016			<0.04	<0.04		<0.04
8/4/2016					<0.04	
8/5/2016		<0.04				
9/26/2016	<0.04					
9/28/2016		<0.04	0.0169 (J)	<0.04	<0.04	
9/30/2016						<0.04
11/11/2016	0.0193 (J)					
11/22/2016		<0.04	0.0067 (J)	<0.04	0.0072 (J)	<0.04
1/30/2017	<0.04					
2/7/2017		<0.04	<0.04			
2/8/2017				0.0085 (J)	0.0069 (J)	
2/13/2017						<0.04
4/3/2017	<0.04					
4/10/2017		<0.04	<0.04	<0.04	<0.04	
4/11/2017						<0.04
6/12/2017	<0.04					
6/14/2017		<0.04	<0.04			<0.04
6/15/2017				<0.04	<0.04	
10/2/2017	<0.04					
10/4/2017		<0.04	<0.04	<0.04	0.0065 (J)	<0.04
3/16/2018	<0.04					
3/20/2018		0.004 (J)				
3/21/2018			<0.04	<0.04		
3/22/2018					<0.04	<0.04
9/18/2018	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
3/19/2019	<0.04					
3/22/2019		<0.04	<0.04			
3/23/2019				<0.04	<0.04	<0.04
9/12/2019	<0.04					
9/17/2019		<0.04	<0.04	<0.04	<0.04	<0.04 (D)
3/11/2020	0.007 (J)					
3/12/2020		<0.04	0.005 (J)	<0.04	0.0058 (J)	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

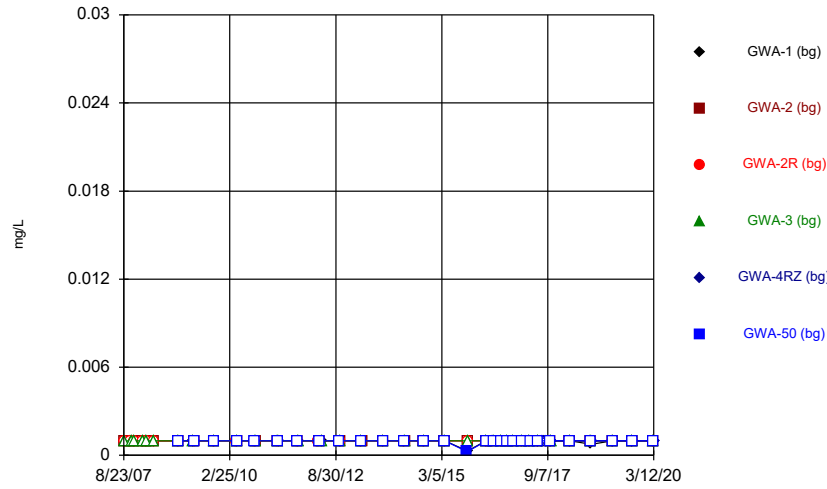
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						<0.04
4/4/2016	<0.04	<0.04				
4/5/2016			<0.04	<0.04	<0.04	
5/25/2016						<0.04
5/31/2016	<0.04			<0.04	<0.04	
6/1/2016		<0.04	<0.04			
8/1/2016						<0.04
8/4/2016	<0.04				<0.04	
8/9/2016			0.0998 (D)			
9/27/2016						<0.04
9/29/2016	0.0192 (J)				0.0106 (J)	
11/11/2016						0.0083 (J)
11/23/2016				0.0076 (J)	0.0099 (J)	
11/28/2016	0.0124 (J)		0.0072 (J)			
1/31/2017						<0.04
2/9/2017	0.0157 (J)		<0.04			
2/10/2017				<0.04	<0.04	
2/22/2017		0.02 (J)				
4/3/2017						<0.04
4/11/2017		<0.04	<0.04	<0.04		
4/12/2017	0.0183 (J)				0.009 (J)	
6/12/2017						<0.04
6/14/2017			<0.04			
6/15/2017				<0.04	<0.04	
6/16/2017	0.0269 (J)	0.0163 (J)				
7/12/2017		0.0117 (J)	<0.04	<0.04		
7/26/2017				<0.04		
7/28/2017		0.0071 (J)				
8/10/2017		0.0093 (J)				
10/3/2017						<0.04
10/5/2017			0.0068 (J)			
10/6/2017		0.0148 (J)		0.0071 (J)	<0.04	
10/9/2017	0.0383 (J)					
3/19/2018						0.0041 (J)
3/21/2018	0.021 (J)					
3/22/2018			<0.04			
3/23/2018		0.017 (J)		0.0092 (J)	0.0053 (J)	
9/17/2018						<0.04
9/19/2018	0.026 (J)		<0.04	0.0046 (J)	0.0049 (J)	
9/20/2018		0.016 (J)				
3/20/2019						<0.04
3/22/2019		0.013 (J)	<0.04	<0.04		
3/23/2019	0.012 (J)					
3/25/2019					<0.04	
9/16/2019						0.0051 (J)
9/17/2019			<0.04	<0.04	<0.04	
9/18/2019	0.017 (J)	0.014 (X)				
3/13/2020	0.014 (J)		0.0081 (J)	0.0054 (J)	0.0064 (J)	
3/16/2020						<0.04
3/17/2020		0.017 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

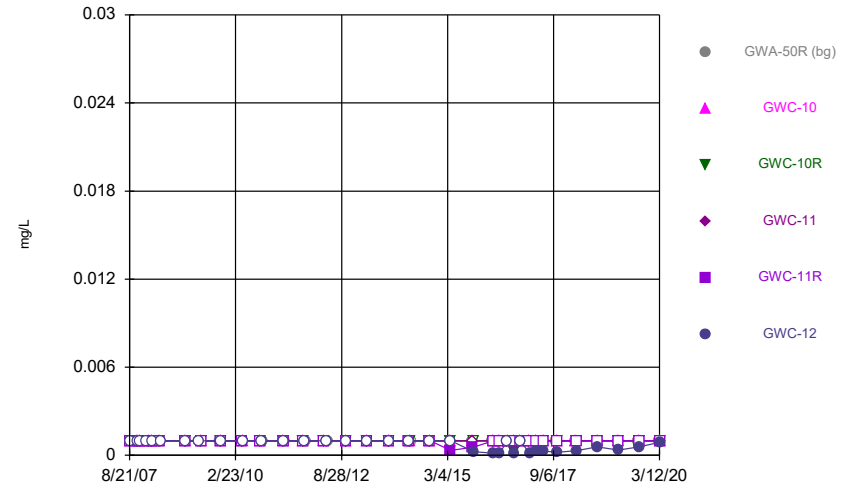
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					<0.04	
3/29/2016	<0.04	<0.04				
3/30/2016				<0.04		<0.04
5/24/2016	<0.04	<0.04		<0.04		
5/25/2016					<0.04	
5/26/2016						<0.04
5/31/2016			<0.04			
8/1/2016	<0.04	<0.04				
8/2/2016			<0.04	<0.04	<0.04	
8/5/2016						<0.04
9/26/2016	<0.04	<0.04			<0.04	
9/27/2016			0.0073 (J)	<0.04		
9/28/2016						<0.04
11/14/2016		<0.04				
11/18/2016	<0.04					
11/21/2016			0.008 (J)		<0.04	<0.04
11/22/2016				0.0115 (J)		
2/1/2017	<0.04	<0.04	<0.04			
2/3/2017					<0.04	
2/6/2017				<0.04		<0.04
4/6/2017	<0.04	<0.04	<0.04	<0.04		<0.04
4/7/2017					<0.04	
6/13/2017	<0.04	<0.04	<0.04		<0.04	<0.04
6/14/2017				<0.04		
7/14/2017			0.007 (J)			
10/3/2017	<0.04	<0.04	<0.04		<0.04	<0.04
10/4/2017				<0.04		
3/19/2018	<0.04					
3/20/2018		0.0073 (J)	0.0064 (J)		<0.04	0.0096 (J)
3/21/2018				<0.04		
9/17/2018	<0.04	0.0046 (J)				
9/18/2018			0.0045 (J)	<0.04	<0.04	<0.04 (D)
3/21/2019	<0.04	<0.04	<0.04			0.006 (J)
3/27/2019				0.0078 (J)		
5/6/2019					0.0065 (J)	
9/13/2019			0.0065 (J)			
9/16/2019	<0.04	<0.04		<0.04 (D)	<0.04	<0.04
3/12/2020	0.0061 (J)	0.0052 (J)	0.0057 (J)	<0.04		0.0058 (J)
3/16/2020					<0.04	

Time Series



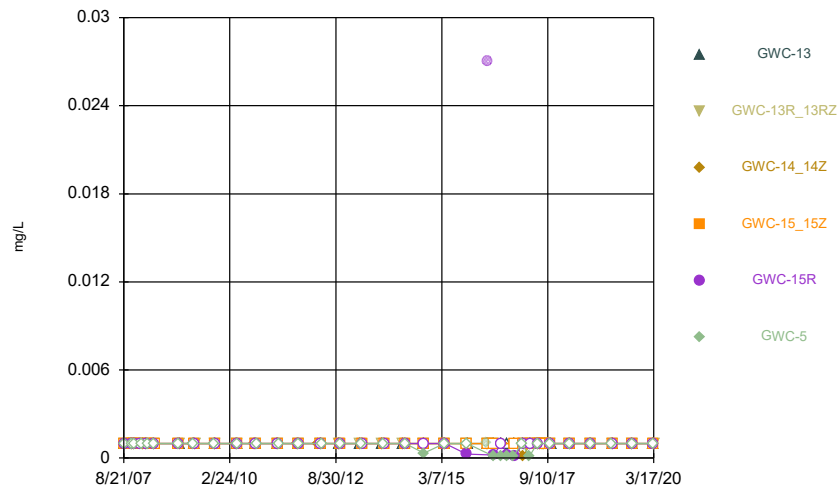
Constituent: Cadmium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



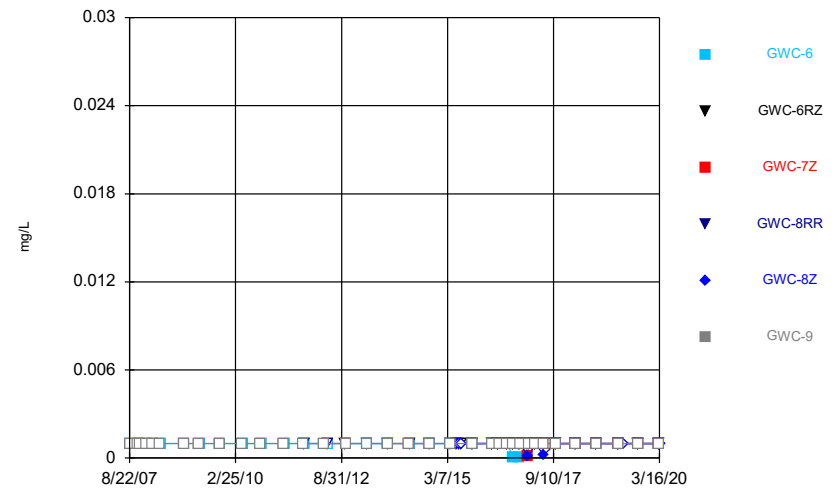
Constituent: Cadmium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Cadmium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Cadmium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.001	<0.001	<0.001	<0.001		
10/23/2007	<0.001					
10/24/2007		<0.001	<0.001			
11/2/2007				<0.001		
11/18/2007	<0.001	<0.001	<0.001	<0.001		
1/30/2008	<0.001					
1/31/2008		<0.001	<0.001	<0.001		
3/10/2008	<0.001		<0.001			
3/11/2008		<0.001		<0.001		
5/6/2008		<0.001				
5/13/2008	<0.001		<0.001			
5/14/2008				<0.001		
12/4/2008		<0.001	<0.001			
12/5/2008	<0.001			<0.001		
12/12/2008						<0.001
4/15/2009	<0.001			<0.001		
4/21/2009		<0.001	<0.001			
4/23/2009						<0.001
10/6/2009						<0.001
10/7/2009	<0.001	<0.001				
10/8/2009			<0.001	<0.001		
4/21/2010			<0.001			
4/26/2010		<0.001				
4/27/2010						<0.001
4/28/2010				<0.001		
5/3/2010	<0.001					
9/28/2010			<0.001			
9/30/2010						<0.001
10/4/2010		<0.001				
10/6/2010				<0.001		
10/12/2010	<0.001					
4/12/2011			<0.001			
4/13/2011		<0.001				
4/14/2011						<0.001
4/21/2011				<0.001		
4/27/2011	<0.001					
10/4/2011			<0.001			
10/5/2011		<0.001				<0.001
10/13/2011				<0.001		
10/17/2011	<0.001					
4/3/2012			<0.001			
4/11/2012		<0.001				<0.001
5/1/2012				<0.001		
5/2/2012	<0.001					
10/2/2012						<0.001
10/8/2012	<0.001					
10/9/2012		<0.001	<0.001	<0.001		
4/9/2013						<0.001
4/11/2013			<0.001	<0.001		
4/12/2013	<0.001					
4/15/2013		<0.001				
10/15/2013		<0.001				<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.001		<0.001	<0.001		
4/10/2014			<0.001			<0.001
4/11/2014	<0.001					
4/22/2014		<0.001				
4/23/2014				<0.001		
9/30/2014	<0.001	<0.001	<0.001			
10/1/2014						<0.001
10/4/2014				<0.001		
3/30/2015	<0.001	<0.001	<0.001			<0.001
3/31/2015				<0.001		
10/11/2015						0.00026 (J)
10/12/2015				<0.001		
10/13/2015	0.0003 (J)	<0.001	<0.001			
3/22/2016	<0.001					
3/23/2016		<0.001	<0.001	<0.001		
3/28/2016						<0.001
5/19/2016	<0.001		<0.001			
5/20/2016		<0.001				
5/23/2016				<0.001		<0.001
7/29/2016	<0.001	<0.001	<0.001	<0.001		
8/1/2016						<0.001
9/22/2016			<0.001	<0.001		
9/23/2016	<0.001	<0.001				
9/26/2016						<0.001
11/9/2016	<0.001	<0.001				
11/10/2016			<0.001	<0.001		<0.001
1/30/2017	<0.001					<0.001
1/31/2017		<0.001	<0.001	<0.001		
2/22/2017					<0.001	
3/30/2017	<0.001	<0.001		<0.001		
4/3/2017			<0.001			
4/7/2017					<0.001	<0.001
6/9/2017	<0.001		<0.001			
6/12/2017		<0.001		<0.001		<0.001
6/14/2017					<0.001	
7/12/2017					<0.001	
7/20/2017					<0.001	
7/28/2017					<0.001	
8/9/2017					<0.001	
8/24/2017					<0.001	
10/2/2017	<0.001	<0.001	<0.001			<0.001
10/3/2017					<0.001	
10/4/2017				<0.001		
3/16/2018	<0.001		<0.001			<0.001
3/19/2018		<0.001		<0.001		
3/21/2018					<0.001	
9/14/2018		<0.001	<0.001			
9/17/2018	0.00076 (D)			<0.001		<0.001
9/18/2018					<0.001	
3/19/2019			<0.001			<0.001
3/20/2019	<0.001	<0.001		<0.001		
3/21/2019					<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	<0.001	<0.001 (D)			<0.001	
9/13/2019			<0.001	<0.001		<0.001
3/11/2020	<0.001	<0.001	<0.001	<0.001		<0.001
3/12/2020					<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2007		<0.001	<0.001	<0.001	<0.001	<0.001
11/18/2007				<0.001	<0.001	
11/19/2007						<0.001
11/20/2007		<0.001	<0.001			
1/16/2008						<0.001
1/30/2008		<0.001	<0.001	<0.001	<0.001	
3/5/2008				<0.001		<0.001
3/6/2008		<0.001	<0.001		<0.001	
5/7/2008				<0.001	<0.001	
5/8/2008			<0.001			
5/12/2008		<0.001				
5/13/2008						<0.001
12/12/2008	<0.001					
12/13/2008		<0.001				<0.001
12/14/2008			<0.001	<0.001	<0.001	
4/16/2009						<0.001
4/23/2009	<0.001					
4/29/2009		<0.001	<0.001	<0.001	<0.001	
10/6/2009	<0.001					
10/20/2009		<0.001				
10/21/2009			<0.001			<0.001
10/22/2009				<0.001	<0.001	
4/21/2010			<0.001	<0.001	<0.001	
4/26/2010		<0.001				
4/27/2010						<0.001
5/3/2010	<0.001					
9/28/2010			<0.001	<0.001		
9/29/2010		<0.001			<0.001	
10/5/2010						<0.001
10/11/2010	<0.001					
4/12/2011			<0.001	<0.001		
4/13/2011		<0.001			<0.001	
4/19/2011						<0.001
4/27/2011	<0.001					
10/4/2011			<0.001	<0.001	<0.001	
10/5/2011		<0.001				
10/12/2011						<0.001
10/19/2011	<0.001					
4/3/2012			<0.001	<0.001		
4/4/2012		<0.001			<0.001	
4/24/2012						<0.001
5/1/2012	<0.001					
10/2/2012	<0.001					<0.001
10/3/2012		<0.001		<0.001	<0.001	
10/8/2012			<0.001			
4/2/2013						<0.001
4/3/2013		<0.001	<0.001	<0.001	<0.001	
4/10/2013	<0.001					
10/9/2013				<0.001	<0.001	<0.001
10/15/2013		<0.001	<0.001			
10/16/2013	<0.001					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.001
4/2/2014				<0.001	<0.001	
4/9/2014		<0.001	<0.001			
4/22/2014	<0.001					
10/1/2014	<0.001					
10/2/2014		<0.001	<0.001	<0.001	<0.001	<0.001
3/30/2015	<0.001					
4/1/2015				<0.001	0.00033 (J)	<0.001
4/2/2015		<0.001	<0.001			
10/10/2015		<0.001				
10/11/2015	<0.001			<0.001	0.00056 (J)	
10/12/2015			<0.001			
10/14/2015						0.00025 (J)
3/28/2016	<0.001					
3/31/2016		<0.001	<0.001			
4/4/2016				<0.001	<0.001	0.000136 (J)
5/25/2016	<0.001					
5/26/2016		<0.001	<0.001	<0.001	<0.001	
5/27/2016						0.000131 (J)
8/1/2016	<0.001					
8/3/2016			<0.001	<0.001		<0.001
8/4/2016					<0.001	
8/5/2016		<0.001				
9/26/2016	<0.001					
9/28/2016		<0.001	0.0002 (J)	<0.001	<0.001	
9/30/2016						9E-05 (J)
11/11/2016	<0.001					
11/22/2016		<0.001	<0.001	<0.001	<0.001	<0.001
1/30/2017	<0.001					
2/7/2017		<0.001	<0.001			
2/8/2017				<0.001	<0.001	
2/13/2017						0.0001 (J)
4/3/2017	<0.001					
4/10/2017		<0.001	<0.001	<0.001	<0.001	
4/11/2017						0.0003 (J)
6/12/2017	<0.001					
6/14/2017		<0.001	<0.001			0.0003 (J)
6/15/2017				<0.001	<0.001	
10/2/2017	<0.001					
10/4/2017		<0.001	<0.001	<0.001	<0.001	0.0002 (J)
3/16/2018	<0.001					
3/20/2018		<0.001				
3/21/2018			<0.001	<0.001		
3/22/2018					<0.001	0.00032 (J)
9/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00057 (J)
3/19/2019	<0.001					
3/22/2019		<0.001	<0.001			
3/23/2019				<0.001	<0.001	0.00035 (J)
9/12/2019	<0.001					
9/17/2019		<0.001	<0.001	<0.001	<0.001	0.000575 (JD)
3/11/2020	<0.001					
3/12/2020		<0.001	<0.001	<0.001	<0.001	0.00089 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.001	<0.001				
8/23/2007					<0.001	<0.001
8/24/2007			<0.001	<0.001		
10/25/2007						<0.001
11/1/2007	<0.001	<0.001				
11/2/2007			<0.001	<0.001	<0.001	
11/17/2007			<0.001		<0.001	
11/18/2007				<0.001		
11/19/2007	<0.001	<0.001				<0.001
1/15/2008			<0.001	<0.001	<0.001	
1/23/2008						<0.001
1/31/2008	<0.001	<0.001				
3/5/2008	<0.001	<0.001	<0.001			
3/6/2008					<0.001	
3/10/2008				<0.001		
3/11/2008						<0.001
5/7/2008		<0.001	<0.001		<0.001	
5/12/2008	<0.001					<0.001
5/13/2008				<0.001		
12/2/2008			<0.001	<0.001	<0.001	
12/11/2008						<0.001
12/12/2008		<0.001				
12/13/2008	<0.001					
4/15/2009						<0.001
4/16/2009			<0.001			
4/28/2009	<0.001			<0.001	<0.001	
4/29/2009		<0.001				
10/9/2009						<0.001
10/19/2009					<0.001	
10/20/2009			<0.001	<0.001		
10/21/2009	<0.001	<0.001				
4/20/2010			<0.001			
4/27/2010				<0.001	<0.001	
4/28/2010	<0.001	<0.001				
5/4/2010						<0.001
9/29/2010			<0.001			
10/4/2010					<0.001	
10/5/2010	<0.001			<0.001		
10/6/2010		<0.001				
10/12/2010						<0.001
4/12/2011			<0.001			
4/18/2011					<0.001	
4/19/2011	<0.001			<0.001		
4/20/2011		<0.001				
4/28/2011						<0.001
10/4/2011			<0.001			
10/12/2011		<0.001		<0.001	<0.001	
10/18/2011	<0.001					
10/19/2011						<0.001
4/4/2012			<0.001			
4/23/2012					<0.001	
4/25/2012	<0.001	<0.001		<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.001
10/2/2012	<0.001	<0.001				
10/9/2012						<0.001
10/10/2012			<0.001	<0.001	<0.001	
4/2/2013	<0.001	<0.001				
4/11/2013						<0.001
4/15/2013			<0.001		<0.001	
4/16/2013				<0.001		
10/8/2013	<0.001	<0.001				
10/16/2013						<0.001
10/22/2013			<0.001	<0.001	<0.001	
4/1/2014	<0.001	<0.001				
4/21/2014			<0.001	<0.001	<0.001	
4/23/2014						<0.001
9/30/2014			<0.001	<0.001	<0.001	
10/1/2014	<0.001	<0.001				
10/3/2014						0.00033 (J)
3/31/2015		<0.001				<0.001
4/1/2015	<0.001					
4/3/2015			<0.001	<0.001	<0.001	
10/6/2015				<0.001		
10/7/2015			<0.001		0.00028 (J)	
10/12/2015						<0.001
10/14/2015		<0.001				
10/15/2015	<0.001					
3/28/2016						0.00104 (o)
4/4/2016	<0.001	<0.001				
4/5/2016			<0.001	<0.001	0.027 (o)	
5/25/2016						0.000148 (J)
5/31/2016	<0.001			<0.001	0.000206 (J)	
6/1/2016		<0.001	<0.001			
8/1/2016						0.0001 (J)
8/4/2016	<0.001				<0.001	
8/9/2016			<0.001			
9/27/2016						0.0001 (J)
9/29/2016	<0.001				0.0002 (J)	
11/11/2016						9E-05 (J)
11/23/2016				<0.001	0.0001 (J)	
11/28/2016	<0.001		<0.001			
1/31/2017						<0.001
2/9/2017	<0.001		0.0001 (J)			
2/10/2017				<0.001	<0.001	
2/22/2017		<0.001				
4/3/2017						0.0001 (J)
4/11/2017		<0.001	<0.001	<0.001		
4/12/2017	<0.001				<0.001	
6/12/2017						<0.001
6/14/2017			<0.001			
6/15/2017				<0.001	<0.001	
6/16/2017	<0.001	<0.001				
7/12/2017		<0.001	<0.001	<0.001		
7/26/2017				<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.001				
8/10/2017		<0.001				
10/3/2017						<0.001
10/5/2017			<0.001			
10/6/2017		<0.001		<0.001	<0.001	
10/9/2017	<0.001					
3/19/2018						<0.001
3/21/2018	<0.001					
3/22/2018			<0.001			
3/23/2018		<0.001		<0.001	<0.001	
9/17/2018						<0.001
9/19/2018	<0.001		<0.001	<0.001	<0.001	
9/20/2018		<0.001				
3/20/2019						<0.001
3/22/2019		<0.001	<0.001	<0.001		
3/23/2019	<0.001					
3/25/2019					<0.001	
9/16/2019						<0.001
9/17/2019			<0.001	<0.001	<0.001	
9/18/2019	<0.001	<0.001				
3/13/2020	<0.001		<0.001	<0.001	<0.001	
3/16/2020						<0.001
3/17/2020		<0.001				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

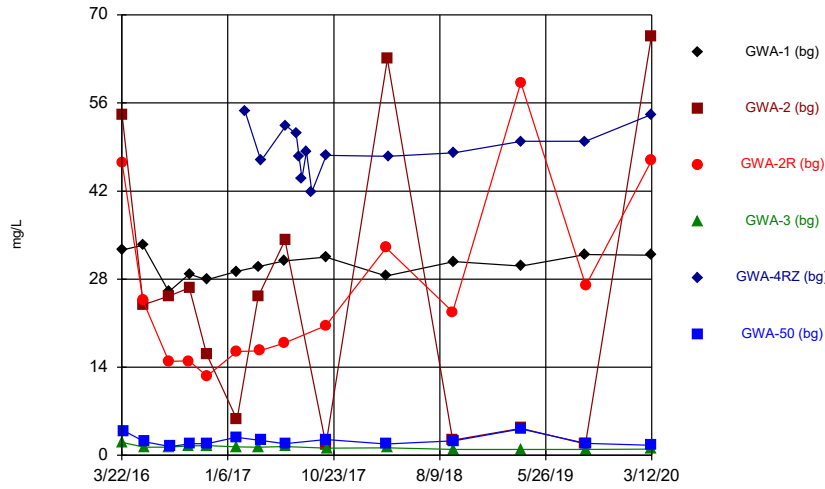
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.001					
8/23/2007						<0.001
10/25/2007	<0.001					
11/1/2007						<0.001
11/19/2007						<0.001
11/20/2007	<0.001					
1/15/2008						<0.001
1/23/2008	<0.001					
3/6/2008						<0.001
3/11/2008	<0.001					
5/13/2008						<0.001
5/14/2008	<0.001					
12/11/2008	<0.001					
12/12/2008						<0.001
4/16/2009						<0.001
4/23/2009	<0.001					
10/9/2009	<0.001					
10/13/2009						<0.001
4/21/2010						<0.001
5/4/2010	<0.001					
9/29/2010						<0.001
10/11/2010	<0.001					
4/13/2011						<0.001
4/26/2011	<0.001					
10/5/2011						<0.001
10/18/2011	<0.001			<0.001		
4/4/2012						<0.001
4/30/2012				<0.001		
5/2/2012	<0.001					
10/3/2012				<0.001		
10/8/2012	<0.001					<0.001
4/8/2013				<0.001		<0.001
4/10/2013	<0.001					
10/8/2013	<0.001					
10/9/2013				<0.001		<0.001
4/9/2014						<0.001
4/10/2014				<0.001		
4/14/2014	<0.001					
9/30/2014						<0.001
10/2/2014				<0.001		
10/3/2014	<0.001					
4/1/2015	<0.001					
4/2/2015						<0.001
4/3/2015				<0.001		
5/26/2015		<0.001			<0.001	
6/18/2015		<0.001 (D)			<0.001 (D)	
7/2/2015		<0.001			<0.001	
10/8/2015				<0.001	<0.001	
10/9/2015	<0.001	<0.001				
10/10/2015						<0.001 (D)
3/22/2016					<0.001	
3/29/2016	<0.001	<0.001				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

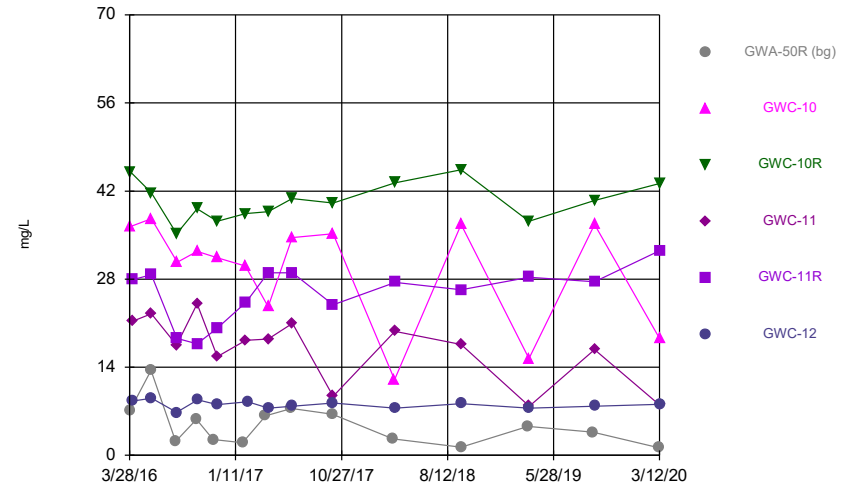
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.001		<0.001
5/24/2016	<0.001	<0.001		<0.001		
5/25/2016					<0.001	
5/26/2016						<0.001
5/31/2016			<0.001			
8/1/2016	<0.001	<0.001				
8/2/2016			<0.001	<0.001	<0.001	
8/5/2016						<0.001
9/26/2016	8E-05 (J)	<0.001			<0.001	
9/27/2016			<0.001	<0.001		
9/28/2016						<0.001
11/14/2016		<0.001				
11/18/2016	8E-05 (J)					
11/21/2016			<0.001		<0.001	<0.001
11/22/2016				<0.001		
2/1/2017	<0.001	<0.001	9E-05 (J)			
2/3/2017					0.0001 (J)	
2/6/2017				<0.001		<0.001
4/6/2017	<0.001	<0.001	<0.001	<0.001		<0.001
4/7/2017					<0.001	
6/13/2017	<0.001	<0.001	<0.001		0.0002 (J)	<0.001
6/14/2017				<0.001		
7/14/2017			<0.001			
10/3/2017	<0.001	<0.001	<0.001		<0.001	<0.001
10/4/2017				<0.001		
3/19/2018	<0.001					
3/20/2018		<0.001	<0.001		<0.001	<0.001
3/21/2018				<0.001		
9/17/2018	<0.001	<0.001				
9/18/2018			<0.001	<0.001	<0.001	<0.001 (D)
3/21/2019	<0.001	<0.001	<0.001			<0.001
3/27/2019				<0.001		
5/6/2019					<0.001	
9/13/2019			<0.001			
9/16/2019	<0.001	<0.001		<0.001 (D)	<0.001	<0.001
3/12/2020	<0.001	<0.001	<0.001	<0.001		<0.001
3/16/2020					<0.001	

Time Series



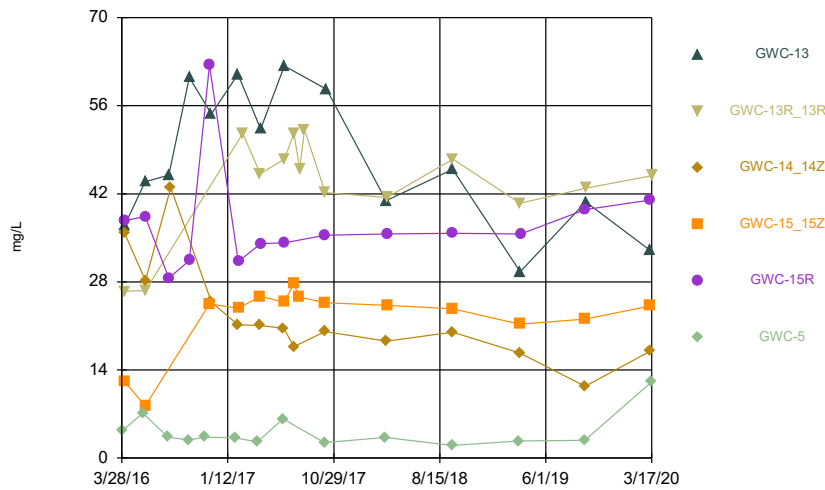
Constituent: Calcium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



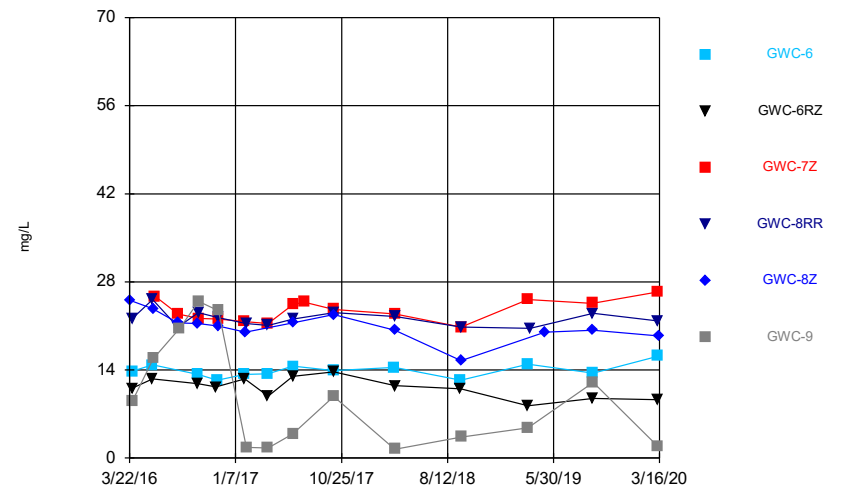
Constituent: Calcium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Calcium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Calcium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	32.6					
3/23/2016		54.1	46.5	2.05		
3/28/2016						3.89
5/19/2016	33.4		24.6			
5/20/2016		23.9				
5/23/2016				1.29		2.16
7/29/2016	26	25.3	14.9	1.29		
8/1/2016						1.37
9/22/2016			15	1.51		
9/23/2016	28.8	26.6				
9/26/2016						1.86
11/9/2016	27.9	16.1				
11/10/2016			12.6	1.54		1.86
1/30/2017	29.2					2.86
1/31/2017		5.68	16.5	1.34		
2/22/2017					54.7	
3/30/2017	30	25.2		1.31		
4/3/2017			16.6			
4/7/2017					46.8	2.34
6/9/2017	30.9		17.8			
6/12/2017		34.2		1.4		1.87
6/14/2017					52.4	
7/12/2017					51.1	
7/20/2017					47.5	
7/28/2017					44	
8/9/2017					48.3	
8/24/2017					41.9	
10/2/2017	31.5	1.69	20.6			2.53
10/3/2017					47.7	
10/4/2017				1.13		
3/16/2018	28.5		33			1.8
3/19/2018		63		1.2		
3/21/2018					47.5	
9/14/2018		2.4	22.8 (J)			
9/17/2018	30.8			0.95		2.3
9/18/2018					48.1	
3/19/2019			59.2			4.2
3/20/2019	30.1	4.3		0.96		
3/21/2019					49.9	
9/12/2019	31.9	1.8			49.9	
9/13/2019			27	0.94		1.9
3/11/2020	31.8	66.6	46.8	1		1.6
3/12/2020					54.2	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	7.04					
3/31/2016		36.4	45			
4/4/2016				21.3	27.9	8.63
5/25/2016	13.5					
5/26/2016		37.6	41.7	22.5	28.7	
5/27/2016						9.07
8/1/2016	2.2					
8/3/2016			35.2	17.5		6.82
8/4/2016					18.6	
8/5/2016		30.7				
9/26/2016	5.72					
9/28/2016		32.4	39.2	24.1	17.7	
9/30/2016						8.8
11/11/2016	2.5					
11/22/2016		31.4	37.2	15.7	20.2	8.08
1/30/2017	2.01					
2/7/2017		30.1	38.4			
2/8/2017				18.3	24.3	
2/13/2017						8.51
4/3/2017	6.26					
4/10/2017		23.6	38.7	18.5	29	
4/11/2017						7.5
6/12/2017	7.44					
6/14/2017		34.6	40.8			7.82
6/15/2017				21	29	
10/2/2017	6.55					
10/4/2017		35.2	40.1	9.4	23.9	8.32
3/16/2018	2.6					
3/20/2018		12 (J)				
3/21/2018			43.3	19.7 (J)		
3/22/2018					27.5	7.5
9/18/2018	1.3	36.7	45.4	17.6 (J)	26.3	8.2
3/19/2019	4.6					
3/22/2019		15.4 (J)	37.2			
3/23/2019				7.8	28.3	7.5
9/12/2019	3.7					
9/17/2019		36.7	40.5	16.8	27.6	7.8
3/11/2020	1.2					
3/12/2020		18.6	43.2	8	32.5	8.1

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

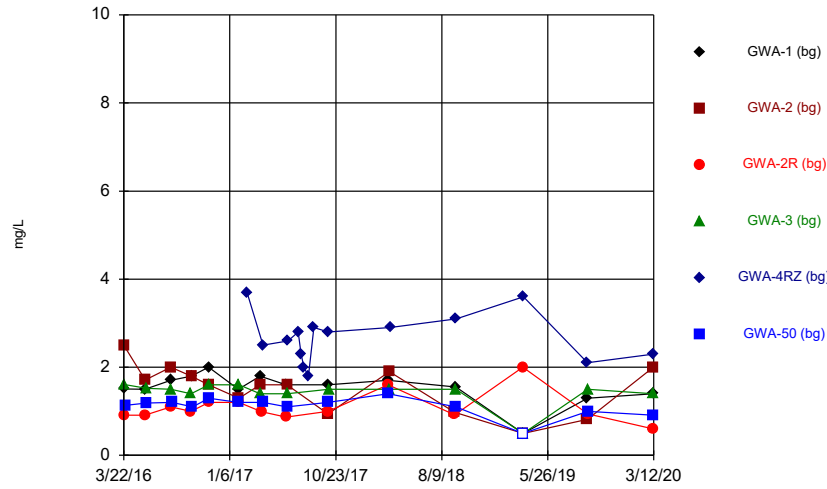
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						4.29
4/4/2016	36.9	26.5				
4/5/2016			35.7	12.2	37.7	
5/25/2016						7.15
5/31/2016	43.9			8.24	38.4	
6/1/2016		26.6	28.2			
8/1/2016						3.35
8/4/2016	45				28.6	
8/9/2016			43			
9/27/2016						2.89
9/29/2016	60.5				31.4	
11/11/2016						3.33
11/23/2016				24.5	62.5	
11/28/2016	54.7		24.8			
1/31/2017						3.21
2/9/2017	61		21.2			
2/10/2017				23.8	31.2	
2/22/2017		51.6				
4/3/2017						2.57
4/11/2017		45.2	21.1	25.7		
4/12/2017	52.3				34.1	
6/12/2017						6.22
6/14/2017			20.6			
6/15/2017				24.8	34.2	
6/16/2017	62.3	47.5				
7/12/2017		51.6	17.7	27.7		
7/26/2017				25.6		
7/28/2017		46				
8/10/2017		52.2				
10/3/2017						2.45
10/5/2017			20.1			
10/6/2017		42.2		24.7	35.4	
10/9/2017	58.6					
3/19/2018						3.3
3/21/2018	40.9					
3/22/2018			18.6 (J)			
3/23/2018		41.4		24.3 (J)	35.6	
9/17/2018						2
9/19/2018	45.9		20 (J)	23.7 (J)	35.7	
9/20/2018		47.5				
3/20/2019						2.7
3/22/2019		40.5	16.7 (J)	21.3 (J)		
3/23/2019	29.6					
3/25/2019					35.6	
9/16/2019						2.8
9/17/2019			11.4	22.1	39.5	
9/18/2019	40.7	42.9				
3/13/2020	33		17	24.2	41	
3/16/2020						12.1
3/17/2020		44.9				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

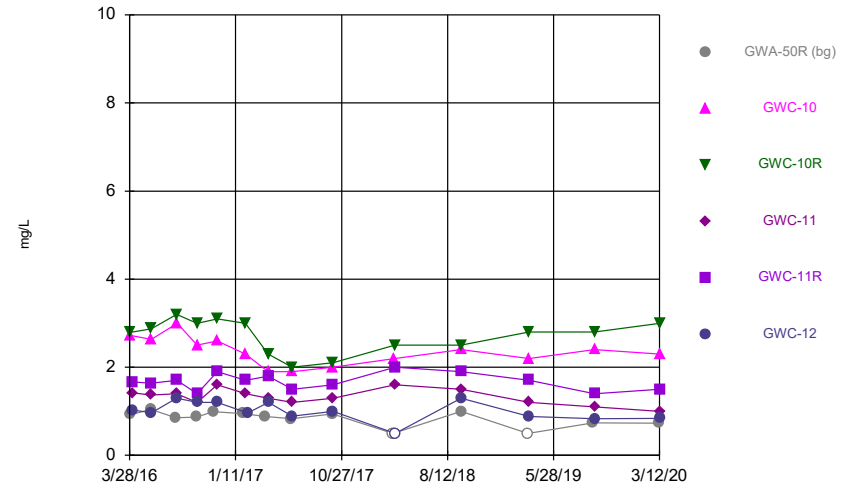
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					25.1	
3/29/2016	13.8	11.1				
3/30/2016				22.2		9.07
5/24/2016	14.8	12.6		25.2		
5/25/2016					23.7	
5/26/2016						15.8
5/31/2016			25.7			
8/2/2016			22.9	20.8	21.5	
8/5/2016						20.5
9/26/2016	13.3	11.8			21.4	
9/27/2016			22.2	23.1		
9/28/2016						24.9
11/14/2016		11.3				
11/18/2016	12.4					
11/21/2016			22.1		21	23.4
11/22/2016				22.3		
2/1/2017	13.3	12.6	21.7			
2/3/2017					20	
2/6/2017				21.4		1.7
4/6/2017	13.4	9.84	21.4	21.1		1.6
6/13/2017	14.6	13	24.4		21.5	3.82
6/14/2017				22.1		
7/14/2017			24.8			
10/3/2017	13.9	13.7	23.6		22.8	9.77
10/4/2017				23.1		
3/19/2018	14.4 (J)					
3/20/2018		11.5 (J)	22.9 (J)		20.3 (J)	1.4
3/21/2018				22.5 (J)		
9/17/2018	12.4 (J)	11 (J)				
9/18/2018			20.8 (J)	20.8 (J)	15.5 (J)	3.35 (D)
3/21/2019	14.9 (J)	8.3	25.2			4.8
3/27/2019				20.6 (J)		
5/6/2019					20 (J)	
9/13/2019			24.6			
9/16/2019	13.5	9.5		23	20.3	12
3/12/2020	16.2	9.3	26.4	21.8		1.8
3/16/2020					19.4	

Time Series



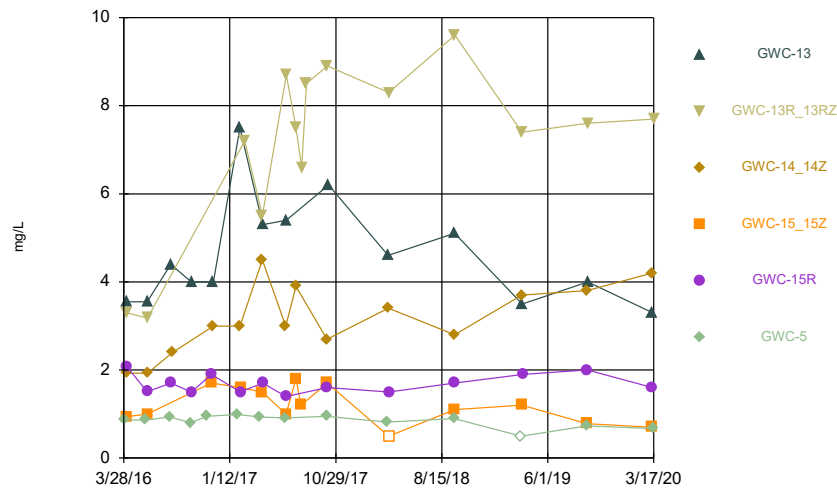
Constituent: Chloride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



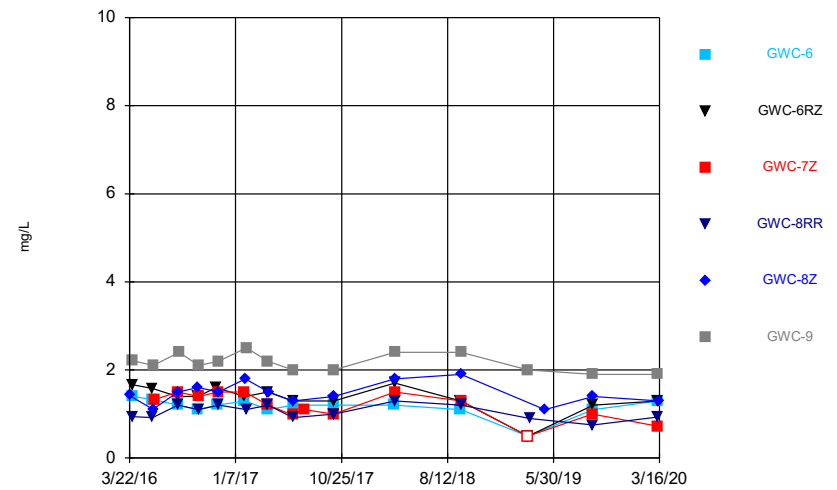
Constituent: Chloride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Chloride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Chloride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	1.5101					
3/23/2016		2.4904	0.9079	1.6092		
3/28/2016						1.14
5/19/2016	1.5		0.9136			
5/20/2016		1.71				
5/23/2016				1.52		1.19
7/29/2016	1.7	2	1.1	1.5		
8/1/2016						1.2
9/22/2016			1	1.4		
9/23/2016	1.8	1.8				
9/26/2016						1.1
11/9/2016	2	1.6				
11/10/2016			1.2	1.6		1.3
1/30/2017	1.5					1.2
1/31/2017		1.3	1.2	1.6		
2/22/2017					3.7	
3/30/2017	1.8	1.6		1.4		
4/3/2017			0.99			
4/7/2017					2.5	1.2
6/9/2017	1.6		0.87			
6/12/2017		1.6		1.4		1.1
6/14/2017					2.6	
7/12/2017					2.8	
7/20/2017					2.3	
7/28/2017					2	
8/9/2017					1.8	
8/24/2017					2.9	
10/2/2017	1.6	0.94	1			1.2
10/3/2017					2.8	
10/4/2017				1.5		
3/16/2018	1.7		1.6			1.4
3/19/2018		1.9		1.5		
3/21/2018					2.9	
9/14/2018		0.98	0.92			
9/17/2018	1.55 (D)			1.5		1.1
9/18/2018					3.1	
3/19/2019			2			<1
3/20/2019	<1	<1		<1		
3/21/2019					3.6	
9/12/2019	1.3	0.815 (JD)			2.1	
9/13/2019			0.94 (J)	1.5		1
3/11/2020	1.4	2	0.6 (J)	1.4		0.91 (J)
3/12/2020					2.3	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	0.9204					
3/31/2016		2.72	2.79			
4/4/2016				1.42	1.67	1.03
5/25/2016	1.04					
5/26/2016		2.63	2.87	1.37	1.64	
5/27/2016						0.9684
8/1/2016	0.85					
8/3/2016			3.2	1.4		1.3
8/4/2016					1.7	
8/5/2016		3				
9/26/2016	0.87					
9/28/2016		2.5	3	1.2	1.4	
9/30/2016						1.2
11/11/2016	0.99					
11/22/2016		2.6	3.1	1.6	1.9	1.2
1/30/2017	0.95					
2/7/2017		2.3	3			
2/8/2017				1.4	1.7	
2/13/2017						0.96
4/3/2017	0.88					
4/10/2017		1.9	2.3	1.3	1.8	
4/11/2017						1.2
6/12/2017	0.83					
6/14/2017		1.9	2			0.89
6/15/2017				1.2	1.5	
10/2/2017	0.94					
10/4/2017		2	2.1	1.3	1.6	1
3/16/2018	<1					
3/20/2018		2.2				
3/21/2018			2.5	1.6		
3/22/2018					2	<1
9/18/2018	1	2.4	2.5	1.5	1.9	1.3
3/19/2019	<1					
3/22/2019		2.2	2.8			
3/23/2019				1.2	1.7	0.88
9/12/2019	0.74 (J)					
9/17/2019		2.4	2.8	1.1	1.4	0.835 (JD)
3/11/2020	0.73 (J)					
3/12/2020		2.3	3	1	1.5	0.84 (J)

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

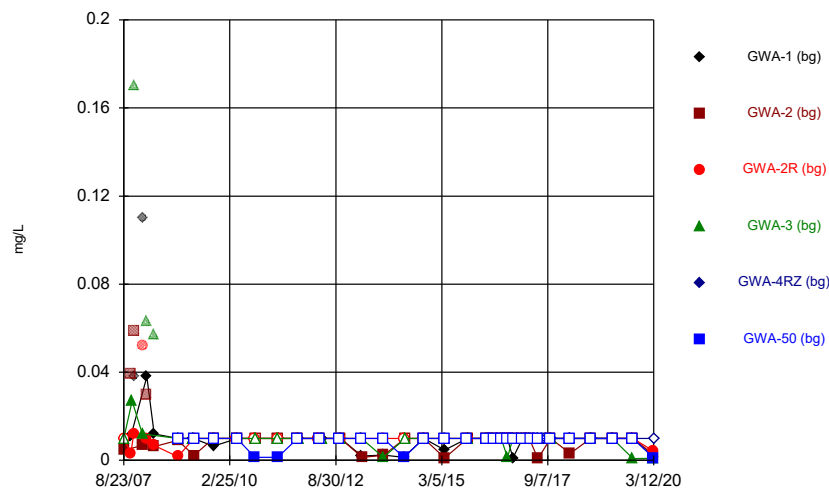
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						0.8659
4/4/2016	3.55	3.3				
4/5/2016			1.93	0.9439	2.08	
5/25/2016						0.8639
5/31/2016	3.55			1	1.51	
6/1/2016		3.18	1.93			
8/1/2016						0.93
8/4/2016	4.4				1.7	
8/9/2016			2.4			
9/27/2016						0.8
9/29/2016	4				1.5	
11/11/2016						0.95
11/23/2016				1.7	1.9	
11/28/2016	4		3			
1/31/2017						0.99
2/9/2017	7.5		3			
2/10/2017				1.6	1.5	
2/22/2017		7.2				
4/3/2017						0.93
4/11/2017		5.5	4.5	1.5		
4/12/2017	5.3				1.7	
6/12/2017						0.91
6/14/2017			3			
6/15/2017				1	1.4	
6/16/2017	5.4	8.7				
7/12/2017		7.5	3.9	1.8		
7/26/2017				1.2		
7/28/2017		6.6				
8/10/2017		8.5				
10/3/2017						0.95
10/5/2017			2.7			
10/6/2017		8.9		1.7	1.6	
10/9/2017	6.2					
3/19/2018						0.82
3/21/2018	4.6					
3/22/2018			3.4			
3/23/2018		8.3		<1	1.5	
9/17/2018						0.9
9/19/2018	5.1		2.8	1.1	1.7	
9/20/2018		9.6				
3/20/2019						<1
3/22/2019		7.4	3.7	1.2		
3/23/2019	3.5					
3/25/2019					1.9	
9/16/2019						0.73 (J)
9/17/2019			3.8	0.78 (X)	2	
9/18/2019	4	7.6				
3/13/2020	3.3		4.2	0.7 (J)	1.6	
3/16/2020						0.67 (J)
3/17/2020		7.7				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

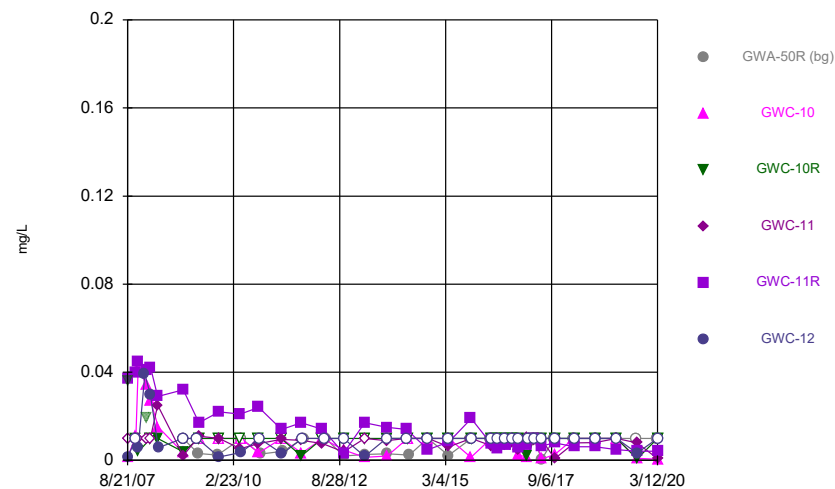
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					1.4231	
3/29/2016	1.3977	1.6645				
3/30/2016				0.9409		2.21
5/24/2016	1.33	1.58		0.92		
5/25/2016					1.11	
5/26/2016						2.1
5/31/2016			1.33			
8/1/2016	1.2	1.4				
8/2/2016			1.5	1.2	1.5	
8/5/2016						2.4
9/26/2016	1.1	1.4			1.6	
9/27/2016			1.4	1.1		
9/28/2016						2.1
11/14/2016		1.6				
11/18/2016	1.2					
11/21/2016			1.5		1.5	2.2
11/22/2016				1.2		
2/1/2017	1.3	1.4	1.5			
2/3/2017					1.8	
2/6/2017				1.1		2.5
4/6/2017	1.1	1.5	1.2	1.2		2.2
4/7/2017					1.5	
6/13/2017	1.2	1.3	0.98		1.3	2
6/14/2017				0.92		
7/14/2017			1.1			
10/3/2017	1.2	1.3	1		1.4	2
10/4/2017				1		
3/19/2018	1.2					
3/20/2018		1.7	1.5		1.8	2.4
3/21/2018				1.3		
9/17/2018	1.1	1.3				
9/18/2018			1.3	1.2	1.9	2.4 (D)
3/21/2019	<1	<1	<1			2
3/27/2019				0.9		
5/6/2019					1.1	
9/13/2019			1			
9/16/2019	1.1	1.2		0.75 (JD)	1.4	1.9
3/12/2020	1.3	1.3	0.72 (J)	0.93 (J)		1.9
3/16/2020					1.3	

Time Series



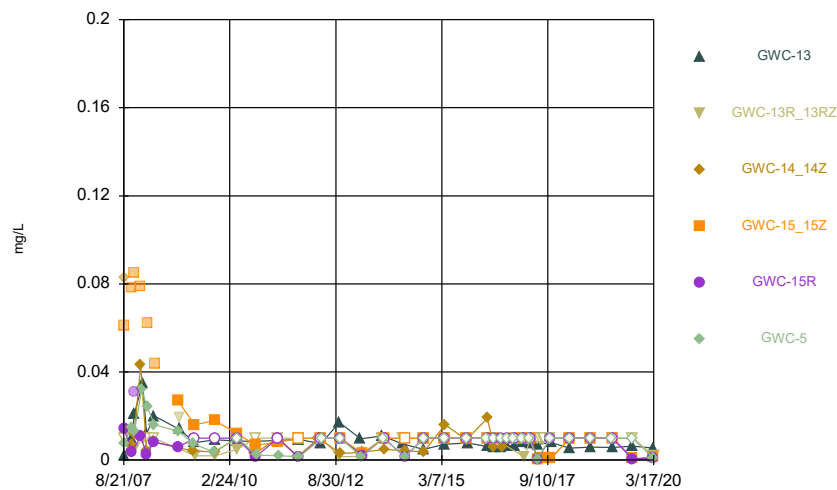
Constituent: Chromium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



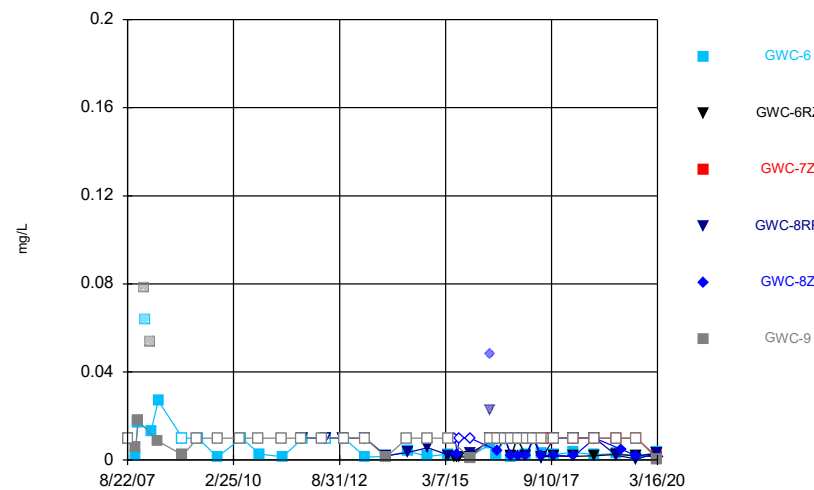
Constituent: Chromium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Chromium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Chromium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	0.0045	<0.01	<0.01		
10/23/2007	0.011					
10/24/2007		0.039 (o)	0.0033			
11/2/2007				0.027		
11/18/2007	0.038 (o)	0.059 (o)	0.012	0.17 (o)		
1/30/2008	0.11 (O)					
1/31/2008		0.0067	0.052 (O)	0.012		
3/10/2008	0.038		0.01			
3/11/2008		0.03 (o)		0.063 (o)		
5/6/2008		0.0062				
5/13/2008	0.012		0.0068			
5/14/2008				0.057 (o)		
12/4/2008		0.009	0.0017			
12/5/2008	<0.01			<0.01		
12/12/2008						<0.01
4/15/2009	<0.01			<0.01		
4/21/2009		0.0022	<0.01			
4/23/2009						<0.01
10/6/2009						<0.01
10/7/2009	0.0065	<0.01				
10/8/2009			<0.01	<0.01		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				<0.01		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						0.0014
10/4/2010		<0.01				
10/6/2010				<0.01		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						0.0014
4/21/2011				<0.01		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				<0.01
10/13/2011				<0.01		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				<0.01		
5/2/2012	<0.01					
10/2/2012						<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	<0.01		
4/9/2013						<0.01
4/11/2013			<0.01	<0.01		
4/12/2013	0.0019					
4/15/2013		0.0013				
10/15/2013		0.0023				<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	0.0024		<0.01	0.0013		
4/10/2014			<0.01			0.0013 (J)
4/11/2014	0.0013 (J)					
4/22/2014		<0.01				
4/23/2014				<0.01		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				<0.01		
3/30/2015	0.0047	0.0011 (J)	<0.01			<0.01
3/31/2015				<0.01		
10/11/2015						<0.01
10/12/2015				<0.01		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01	<0.01		
3/28/2016						<0.01
5/19/2016	<0.01		<0.01			
5/20/2016		<0.01				
5/23/2016				<0.01		<0.01
7/29/2016	<0.01	<0.01	<0.01	<0.01		
8/1/2016						<0.01
9/22/2016			<0.01	0.0013 (J)		
9/23/2016	<0.01	<0.01				
9/26/2016						<0.01
11/9/2016	0.0011 (J)	<0.01				
11/10/2016			<0.01	<0.01		<0.01
1/30/2017	<0.01					<0.01
1/31/2017		<0.01	<0.01	<0.01		
2/22/2017					<0.01	
3/30/2017	<0.01	<0.01		<0.01		
4/3/2017			<0.01			
4/7/2017					<0.01	<0.01
6/9/2017	<0.01		<0.01			
6/12/2017		0.0008 (J)		<0.01		<0.01
6/14/2017					<0.01	
7/12/2017					<0.01	
7/20/2017					<0.01	
7/28/2017					<0.01	
8/9/2017					<0.01	
8/24/2017					<0.01	
10/2/2017	<0.01	<0.01	<0.01			<0.01
10/3/2017					<0.01	
10/4/2017				<0.01		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		0.0031 (J)		<0.01		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			<0.01		<0.01
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		<0.01		
3/21/2019					<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	<0.01	<0.01 (D)			<0.01	
9/13/2019			<0.01	0.00073 (J)		<0.01
3/11/2020	0.0012 (J)	0.0025 (J)	0.0042 (J)	0.00095 (J)		0.0011 (J)
3/12/2020					<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		0.0015	0.036 (o)	<0.01	0.037	0.0013
11/1/2007		0.011	0.01	<0.01	0.04	<0.01
11/18/2007				<0.01	0.045	
11/19/2007						0.0056
11/20/2007		0.042	0.0039			
1/16/2008						0.039
1/30/2008		0.034	0.019 (o)	<0.01	0.041	
3/5/2008				<0.01		0.03
3/6/2008		0.027	<0.01		0.042	
5/7/2008				0.025	0.029	
5/8/2008			0.01			
5/12/2008		0.015				
5/13/2008						0.0057
12/12/2008	<0.01					
12/13/2008		0.0036				<0.01
12/14/2008			0.0038	0.0021	0.032	
4/16/2009						<0.01
4/23/2009	0.0031					
4/29/2009		<0.01	<0.01	0.011	0.017	
10/6/2009	0.0024					
10/20/2009		<0.01				
10/21/2009			<0.01			0.0015
10/22/2009				0.01	0.022	
4/21/2010			<0.01	0.0053	0.021	
4/26/2010		<0.01				
4/27/2010						0.0036
5/3/2010	<0.01					
9/28/2010			<0.01	0.0076		
9/29/2010		0.0034			0.024	
10/5/2010						<0.01
10/11/2010	0.0028					
4/12/2011			<0.01	0.0095		
4/13/2011		<0.01			0.014	
4/19/2011						0.003
4/27/2011	0.0041					
10/4/2011			0.0019	0.0091	0.017	
10/5/2011		0.0032				
10/12/2011						<0.01
10/19/2011	<0.01					
4/3/2012			<0.01	0.0076		
4/4/2012		<0.01			0.014	
4/24/2012						<0.01
5/1/2012	<0.01					
10/2/2012	0.0019					<0.01
10/3/2012		0.0047		0.0039	0.0033	
10/8/2012			<0.01			
4/2/2013						0.0018
4/3/2013		0.0014	<0.01	<0.01	0.017	
4/10/2013	0.0027					
10/9/2013				0.0089	0.015	<0.01
10/15/2013		0.002	<0.01			
10/16/2013	0.0029					

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.01
4/2/2014				<0.01	0.014	
4/9/2014		<0.01	<0.01			
4/22/2014	0.0024					
10/1/2014	<0.01					
10/2/2014		<0.01	<0.01	<0.01	0.0048	<0.01
3/30/2015	0.0022					
4/1/2015				0.0062	0.0084	<0.01
4/2/2015		<0.01	<0.01			
10/10/2015		0.0013				
10/11/2015	<0.01			<0.01	0.019	
10/12/2015			<0.01			
10/14/2015						<0.01
3/28/2016	<0.01					
3/31/2016		<0.01	<0.01			
4/4/2016				0.00656 (J)	0.00728 (J)	<0.01
5/25/2016	<0.01					
5/26/2016		<0.01	<0.01	0.00752 (J)	0.00553 (J)	
5/27/2016						<0.01
8/1/2016	<0.01					
8/3/2016			<0.01	0.0067 (J)		<0.01
8/4/2016					0.0071 (J)	
8/5/2016		<0.01				
9/26/2016	<0.01					
9/28/2016		<0.01	<0.01	0.0082 (J)	0.0093 (J)	
9/30/2016						<0.01
11/11/2016	<0.01					
11/22/2016		0.0024 (J)	<0.01	0.0045 (J)	0.0058 (J)	<0.01
1/30/2017	<0.01					
2/7/2017		0.0015 (J)	0.0019 (J)			
2/8/2017				0.0101	0.0072 (J)	
2/13/2017						<0.01
4/3/2017	<0.01					
4/10/2017		<0.01	<0.01	0.0094 (J)	<0.01	
4/11/2017						<0.01
6/12/2017	0.0005 (J)					
6/14/2017		0.0006 (J)	<0.01			<0.01
6/15/2017				0.009 (J)	0.0066 (J)	
10/2/2017	<0.01					
10/4/2017		0.0027 (J)	<0.01	0.0008 (J)	0.0079 (J)	<0.01
3/16/2018	<0.01					
3/20/2018		<0.01				
3/21/2018			<0.01	0.0079 (J)		
3/22/2018					0.0062 (J)	<0.01
9/18/2018	<0.01	<0.01	<0.01	0.0081 (J)	0.0062 (J)	<0.01
3/19/2019	<0.01					
3/22/2019		<0.01	<0.01			
3/23/2019				<0.01	0.0048 (J)	<0.01
9/12/2019	<0.01					
9/17/2019		0.0009 (J)	0.00067 (J)	0.0079 (J)	0.0042 (J)	0.0033 (D)
3/11/2020	<0.01					
3/12/2020		0.00047 (J)	<0.01	0.00084 (J)	0.0042 (J)	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	0.0019	<0.01				
8/23/2007					0.014	0.0076
8/24/2007			0.083 (o)	0.061 (o)		
10/25/2007						0.015
11/1/2007	0.01	0.0042				
11/2/2007			0.0071	0.078 (o)	0.0036	
11/17/2007			0.012		0.031 (o)	
11/18/2007				0.085 (o)		
11/19/2007	0.021	0.0049				0.013
1/15/2008			0.043	0.079 (o)	0.011	
1/23/2008						0.032
1/31/2008	0.035	<0.01				
3/5/2008	0.012	<0.01	0.0044			
3/6/2008					0.0027	
3/10/2008				0.062 (o)		
3/11/2008						0.024
5/7/2008		<0.01	0.0084		0.008	
5/12/2008	0.02					0.016
5/13/2008				0.044 (o)		
12/2/2008			0.0056	0.027	0.0059	
12/11/2008						0.013
12/12/2008		0.019 (o)				
12/13/2008	0.014					
4/15/2009						0.0073
4/16/2009			0.0042			
4/28/2009	0.0079			0.016	<0.01	
4/29/2009		0.002				
10/9/2009						0.0037
10/19/2009					<0.01	
10/20/2009			0.0037	0.018		
10/21/2009	0.0092	0.002				
4/20/2010			<0.01			
4/27/2010				0.012	<0.01	
4/28/2010	0.0086	0.0049				
5/4/2010						<0.01
9/29/2010			0.0028			
10/4/2010					0.0013	
10/5/2010	0.0085			0.0067		
10/6/2010		<0.01				
10/12/2010						0.0023
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	0.0089			0.0081		
4/20/2011		<0.01				
4/28/2011						0.002
10/4/2011			0.0015			
10/12/2011		<0.01		<0.01	0.0014	
10/18/2011	0.0093					
10/19/2011						0.0015
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	0.0075	<0.01		<0.01		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.01
10/2/2012	0.017	0.0015				
10/9/2012						<0.01
10/10/2012			0.0029	<0.01	<0.01	
4/2/2013	0.0097	0.0017				
4/11/2013						0.0015
4/15/2013			0.0036		0.0021	
4/16/2013				0.0029		
10/8/2013	0.011	<0.01				
10/16/2013						<0.01
10/22/2013			0.0048	<0.01	<0.01	
4/1/2014	0.0074	<0.01				
4/21/2014			0.0043	<0.01	0.0013 (J)	
4/23/2014						0.0013 (J)
9/30/2014			0.0037	<0.01	<0.01	
10/1/2014	0.0049	<0.01				
10/3/2014						<0.01
3/31/2015		<0.01				<0.01
4/1/2015	0.0072					
4/3/2015			0.016	<0.01	<0.01	
10/6/2015				<0.01		
10/7/2015			0.0092		<0.01	
10/12/2015						<0.01
10/14/2015		<0.01				
10/15/2015	0.0077					
3/28/2016						<0.01
4/4/2016	0.00615 (J)	<0.01 (D)				
4/5/2016			0.019 (J)	<0.01	<0.01	
5/25/2016						<0.01
5/31/2016	0.00588 (J)			<0.01	<0.01	
6/1/2016		<0.01 (D)	0.006 (J)			
8/1/2016						<0.01
8/4/2016	0.0056 (J)				<0.01	
8/9/2016			0.0061 (JD)			
9/27/2016						<0.01
9/29/2016	0.0065 (J)				<0.01	
11/11/2016						<0.01
11/23/2016				<0.01	<0.01	
11/28/2016	0.0064 (J)		<0.01			
1/31/2017						<0.01
2/9/2017	0.0078 (J)		<0.01			
2/10/2017				<0.01	<0.01	
2/22/2017		0.0012 (J)				
4/3/2017						<0.01
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	0.0077 (J)				<0.01	
6/12/2017						0.0005 (J)
6/14/2017			0.0006 (J)			
6/15/2017				0.0005 (J)	0.0005 (J)	
6/16/2017	0.0072 (J)	<0.01				
7/12/2017		<0.01	0.0005 (J)	0.0008 (J)		
7/26/2017				0.0006 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.01				
8/10/2017		<0.01				
10/3/2017						<0.01
10/5/2017			0.0006 (J)			
10/6/2017		<0.01		0.0008 (J)	<0.01	
10/9/2017	0.0079 (J)					
3/19/2018						<0.01
3/21/2018	0.0055 (J)					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						<0.01
9/19/2018	0.0059 (J)		<0.01	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						<0.01
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	0.0058 (J)					
3/25/2019					<0.01	
9/16/2019						<0.01
9/17/2019			0.00046 (X)	0.00064 (X)	0.00044 (J)	
9/18/2019	0.0063 (J)	<0.01				
3/13/2020	0.0054 (J)		0.00093 (J)	0.0012 (J)	0.0011 (J)	
3/16/2020						0.00078 (J)
3/17/2020		0.002 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

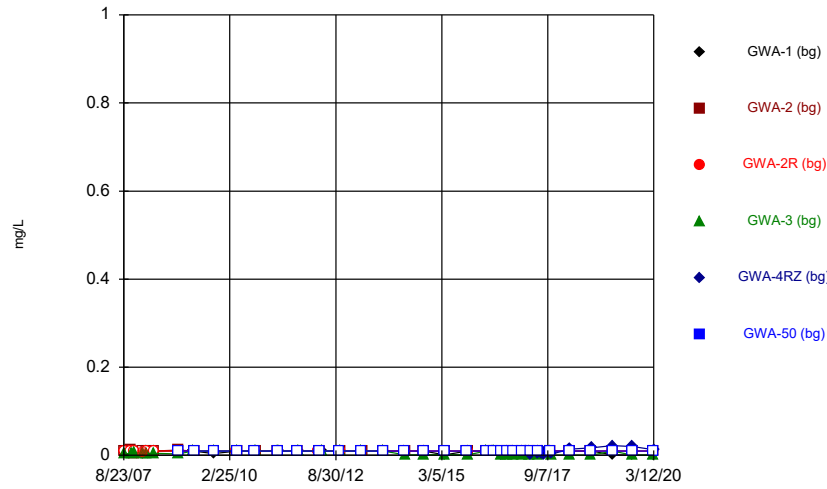
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						<0.01
10/25/2007	0.002					
11/1/2007						0.0061
11/19/2007						0.018 (J)
11/20/2007	0.017					
1/15/2008						0.078 (o)
1/23/2008	0.064 (o)					
3/6/2008						0.054 (o)
3/11/2008	0.013					
5/13/2008						0.0085
5/14/2008	0.027					
12/11/2008	<0.01					
12/12/2008						0.0023
4/16/2009						<0.01
4/23/2009	<0.01					
10/9/2009	0.0014					
10/13/2009						<0.01
4/21/2010						<0.01
5/4/2010	<0.01					
9/29/2010						<0.01
10/11/2010	0.0027					
4/13/2011						<0.01
4/26/2011	0.0015					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	0.0013					
10/8/2013	0.0017					
10/9/2013				0.0019		0.0013
4/9/2014						<0.01
4/10/2014				0.0034		
4/14/2014	0.004					
9/30/2014						<0.01
10/2/2014				0.0056		
10/3/2014	0.0017					
4/1/2015	0.0027					
4/2/2015						<0.01
4/3/2015				0.0022		
5/26/2015		0.0015			<0.01	
6/18/2015		0.0013 (D)			0.0024 (D)	
7/2/2015		0.0014			<0.01	
10/8/2015				0.0033	<0.01	
10/9/2015	0.0016	0.0015				
10/10/2015						0.000825 (D)
3/22/2016					0.048 (o)	
3/29/2016	0.00738 (J)	<0.01				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

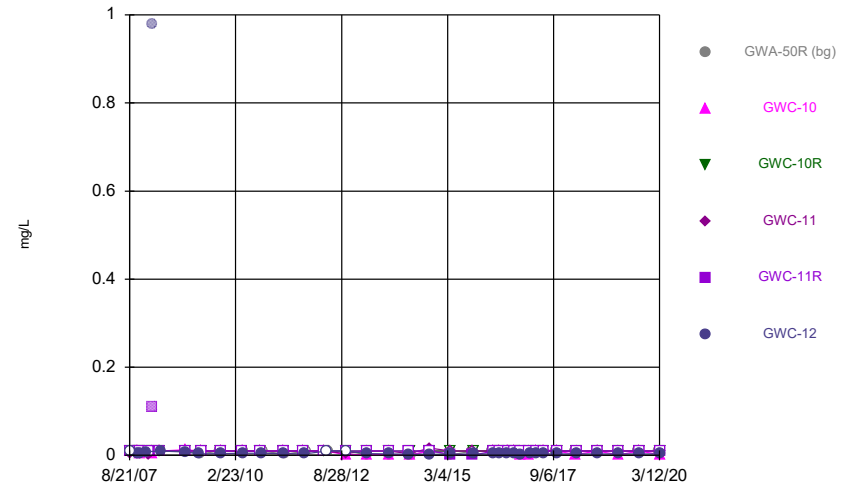
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				0.0228 (o)		<0.01
5/24/2016	0.00263 (J)	<0.01		<0.01		
5/25/2016					0.00441 (J)	
5/26/2016						<0.01
5/31/2016			<0.01			
8/1/2016	<0.01	<0.01				
8/2/2016			<0.01	<0.01	<0.01	
8/5/2016						<0.01
9/26/2016	0.0014 (J)	0.002 (J)			0.002 (J)	
9/27/2016			<0.01	<0.01		
9/28/2016						<0.01
11/14/2016		<0.01				
11/18/2016	<0.01					
11/21/2016			<0.01		0.0017 (J)	<0.01
11/22/2016				<0.01		
2/1/2017	0.0024 (J)	0.0017 (J)	<0.01			
2/3/2017					0.0018 (J)	
2/6/2017				<0.01		<0.01
4/6/2017	<0.01	<0.01	<0.01	<0.01		<0.01
4/7/2017					<0.01	
6/13/2017	0.0031 (J)	0.0015 (J)	<0.01		0.0019 (J)	<0.01
6/14/2017				0.0009 (J)		
7/14/2017			<0.01			
10/3/2017	0.0025 (J)	0.0018 (J)	<0.01		0.0022 (J)	<0.01
10/4/2017				<0.01		
3/19/2018	0.0035 (J)					
3/20/2018		0.0017 (J)	<0.01		0.0017 (J)	<0.01
3/21/2018				<0.01		
9/17/2018	0.0024 (J)	0.002 (J)				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	0.0029 (J)	0.0025 (J)	<0.01			<0.01
3/27/2019				0.0021 (J)		
5/6/2019					0.0048 (J)	
9/13/2019			<0.01			
9/16/2019	0.002 (J)	0.002 (J)		0.000465 (JD)	0.002 (J)	<0.01
3/12/2020	0.0034 (J)	0.0028 (J)	0.0014 (J)	0.0031 (J)		0.00045 (J)
3/16/2020					0.0015 (J)	

Time Series



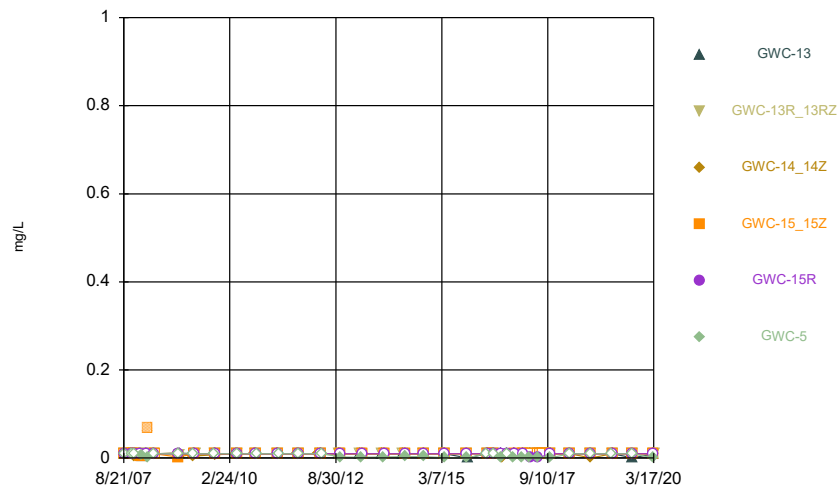
Constituent: Cobalt Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



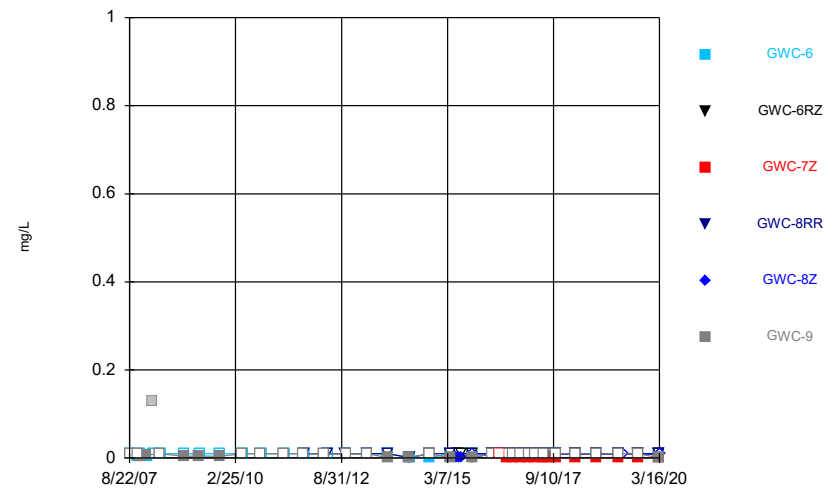
Constituent: Cobalt Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Cobalt Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Cobalt Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	<0.01	<0.01	0.0033		
10/23/2007	<0.01					
10/24/2007		0.013	<0.01			
11/2/2007				0.0046		
11/18/2007	<0.01	0.0041	<0.01	0.0057		
1/30/2008	0.0045					
1/31/2008		<0.01	0.0083 (O)	0.0055		
3/10/2008	<0.01		<0.01			
3/11/2008		<0.01		0.0033		
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
5/14/2008				0.0044		
12/4/2008		0.012	<0.01			
12/5/2008	<0.01			0.0035		
12/12/2008						<0.01
4/15/2009	<0.01			<0.01		
4/21/2009		<0.01	<0.01			
4/23/2009						<0.01
10/6/2009						<0.01
10/7/2009	0.0041	<0.01				
10/8/2009			<0.01	<0.01		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				<0.01		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						<0.01
10/4/2010		<0.01				
10/6/2010				<0.01		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						<0.01
4/21/2011				<0.01		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				<0.01
10/13/2011				<0.01		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				<0.01		
5/2/2012	<0.01					
10/2/2012						<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	<0.01		
4/9/2013						<0.01
4/11/2013			<0.01	<0.01		
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01				<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.01		<0.01	<0.01		
4/10/2014			<0.01			<0.01
4/11/2014	<0.01					
4/22/2014		<0.01				
4/23/2014				0.0013 (J)		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				0.00081 (J)		
3/30/2015	0.0012 (J)	<0.01	<0.01			<0.01
3/31/2015				0.0021		
10/11/2015						<0.01
10/12/2015				0.00078 (J)		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01	<0.01		
3/28/2016						<0.01
5/19/2016	<0.01		<0.01			
5/20/2016		<0.01				
5/23/2016				<0.01		<0.01
7/29/2016	0.0004 (J)	<0.01	<0.01	0.0007 (J)		
8/1/2016						<0.01
9/22/2016			<0.01	0.0007 (J)		
9/23/2016	<0.01	<0.01				
9/26/2016						<0.01
11/9/2016	<0.01	<0.01				
11/10/2016			<0.01	0.0007 (J)		<0.01
1/30/2017	<0.01					<0.01
1/31/2017		<0.01	<0.01	0.0007 (J)		
2/22/2017					<0.01	
3/30/2017	<0.01	<0.01		0.0007 (J)		
4/3/2017			<0.01			
4/7/2017					0.0018 (J)	<0.01
6/9/2017	<0.01		<0.01			
6/12/2017		<0.01		0.0007 (J)		<0.01
6/14/2017					0.0045 (J)	
7/12/2017					0.0046 (J)	
7/20/2017					0.0109	
7/28/2017					0.0104	
8/9/2017					0.0022 (J)	
8/24/2017					0.0076 (J)	
10/2/2017	<0.01	<0.01	<0.01			<0.01
10/3/2017					0.0028 (J)	
10/4/2017				0.0006 (J)		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		<0.01		0.00059 (J)		
3/21/2018					0.014	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			0.00057 (J)		<0.01
9/18/2018					0.017	
3/19/2019			<0.01			<0.01
3/20/2019	0.00078 (J)	<0.01		<0.01		
3/21/2019					0.022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	0.00047 (J)	<0.01 (D)			0.02	
9/13/2019			<0.01	0.00046 (J)		<0.01
3/11/2020	0.00037 (J)	<0.01	<0.01	0.00041 (J)		<0.01
3/12/2020					0.013	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.01	<0.01	0.0031	<0.01	<0.01
11/1/2007		<0.01	<0.01	0.0034	<0.01	0.0041
11/18/2007				0.0045	<0.01	
11/19/2007						0.0055
11/20/2007		0.0046	<0.01			
1/16/2008						0.008
1/30/2008		0.0079	<0.01	0.0027	<0.01	
3/5/2008				<0.01		0.98 (o)
3/6/2008		0.0037	<0.01		0.11 (o)	
5/7/2008				<0.01	<0.01	
5/8/2008			<0.01			
5/12/2008		<0.01				
5/13/2008						0.01
12/12/2008	<0.01					
12/13/2008		0.013				0.0073
12/14/2008			<0.01	<0.01	<0.01	
4/16/2009						0.0033
4/23/2009	0.0029					
4/29/2009		<0.01	<0.01	<0.01	<0.01	
10/6/2009	<0.01					
10/20/2009		<0.01				
10/21/2009			<0.01			0.0039
10/22/2009				<0.01	<0.01	
4/21/2010			<0.01	<0.01	<0.01	
4/26/2010		<0.01				
4/27/2010						0.0044
5/3/2010	<0.01					
9/28/2010			<0.01	<0.01		
9/29/2010		<0.01			<0.01	
10/5/2010						0.005
10/11/2010	<0.01					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			<0.01	
4/19/2011						0.0039
4/27/2011	0.0028					
10/4/2011			<0.01	<0.01	<0.01	
10/5/2011		<0.01				
10/12/2011						0.0032
10/19/2011	<0.01					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	<0.01					
10/2/2012	<0.01					<0.01
10/3/2012		0.0018		0.0037	<0.01	
10/8/2012			<0.01			
4/2/2013						0.0038
4/3/2013		0.0014	<0.01	<0.01	<0.01	
4/10/2013	0.0014					
10/9/2013				<0.01	<0.01	0.003
10/15/2013		0.0018	<0.01			
10/16/2013	0.0014					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						0.0027
4/2/2014				0.0036	<0.01	
4/9/2014		0.0013 (J)	<0.01			
4/22/2014	0.0013					
10/1/2014	<0.01					
10/2/2014		<0.01	<0.01	0.016	<0.01	0.0027
3/30/2015	0.00079 (J)					
4/1/2015				<0.01	0.0026	0.0028
4/2/2015		<0.01	<0.01			
10/10/2015		<0.01				
10/11/2015	<0.01			<0.01	0.00065 (J)	
10/12/2015			<0.01			
10/14/2015						0.003
3/28/2016	<0.01					
3/31/2016		<0.01	<0.01			
4/4/2016				<0.01	<0.01	0.00351 (J)
5/25/2016	<0.01					
5/26/2016		<0.01	<0.01	<0.01	<0.01	
5/27/2016						0.00332 (J)
8/1/2016	<0.01					
8/3/2016			<0.01	<0.01		0.003 (J)
8/4/2016					<0.01	
8/5/2016		<0.01				
9/26/2016	<0.01					
9/28/2016		<0.01	<0.01	<0.01	<0.01	
9/30/2016						0.0035 (J)
11/11/2016	<0.01					
11/22/2016		0.0006 (J)	<0.01	<0.01	<0.01	0.0027 (J)
1/30/2017	<0.01					
2/7/2017		0.0017 (J)	<0.01			
2/8/2017				<0.01	<0.01	
2/13/2017						0.003 (J)
4/3/2017	<0.01					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						0.0031 (J)
6/12/2017	<0.01					
6/14/2017		<0.01	<0.01			0.0031 (J)
6/15/2017				<0.01	<0.01	
10/2/2017	<0.01					
10/4/2017		<0.01	<0.01	<0.01	<0.01	0.0032 (J)
3/16/2018	<0.01					
3/20/2018		0.0021 (J)				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	0.0033 (J)
9/18/2018	<0.01	<0.01	<0.01	<0.01	<0.01	0.0031 (J)
3/19/2019	<0.01					
3/22/2019		0.0011 (J)	<0.01			
3/23/2019				<0.01	<0.01	0.0032 (J)
9/12/2019	<0.01					
9/17/2019		<0.01	<0.01	<0.01	<0.01	0.00305 (D)
3/11/2020	<0.01					
3/12/2020		0.0017 (J)	<0.01	<0.01	<0.01	0.0031 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	0.01	<0.01				
8/23/2007					<0.01	<0.01
8/24/2007			<0.01	<0.01		
10/25/2007						<0.01
11/1/2007	<0.01	<0.01				
11/2/2007			<0.01	<0.01	<0.01	
11/17/2007			0.0039		<0.01	
11/18/2007				<0.01		
11/19/2007	<0.01	<0.01				<0.01
1/15/2008			<0.01	0.0029	<0.01	
1/23/2008						0.0073
1/31/2008	0.0037	<0.01				
3/5/2008	<0.01	<0.01	0.005			
3/6/2008					<0.01	
3/10/2008				0.069 (o)		
3/11/2008						0.0025
5/7/2008		<0.01	<0.01		<0.01	
5/12/2008	<0.01					<0.01
5/13/2008				<0.01		
12/2/2008			0.011	0.0027	<0.01	
12/11/2008						<0.01
12/12/2008		0.0079				
12/13/2008	0.011					
4/15/2009						<0.01
4/16/2009			0.005			
4/28/2009	<0.01			<0.01	<0.01	
4/29/2009		<0.01				
10/9/2009						<0.01
10/19/2009					<0.01	
10/20/2009			0.0074	<0.01		
10/21/2009	<0.01	<0.01				
4/20/2010			<0.01			
4/27/2010				<0.01	<0.01	
4/28/2010	<0.01	<0.01				
5/4/2010						<0.01
9/29/2010			<0.01			
10/4/2010					<0.01	
10/5/2010	<0.01			<0.01		
10/6/2010		<0.01				
10/12/2010						<0.01
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	<0.01			<0.01		
4/20/2011		<0.01				
4/28/2011						<0.01
10/4/2011			<0.01			
10/12/2011		<0.01		<0.01	<0.01	
10/18/2011	<0.01					
10/19/2011						<0.01
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	<0.01	<0.01		<0.01		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.01
10/2/2012	<0.01	<0.01				
10/9/2012						0.0024
10/10/2012			<0.01	<0.01	<0.01	
4/2/2013	<0.01	<0.01				
4/11/2013						0.002
4/15/2013			<0.01		<0.01	
4/16/2013				<0.01		
10/8/2013	<0.01	<0.01				
10/16/2013						0.0023
10/22/2013			<0.01	<0.01	<0.01	
4/1/2014	<0.01	<0.01				
4/21/2014			<0.01	<0.01	<0.01	
4/23/2014						0.003
9/30/2014			<0.01	<0.01	<0.01	
10/1/2014	<0.01	<0.01				
10/3/2014						0.0034
3/31/2015		<0.01				0.00079 (J)
4/1/2015	<0.01					
4/3/2015			<0.01	<0.01	<0.01	
10/6/2015				<0.01		
10/7/2015			<0.01		<0.01	
10/12/2015						0.00063 (J)
10/14/2015		<0.01				
10/15/2015	0.00051 (J)					
3/28/2016						<0.01
4/4/2016	<0.01	<0.01				
4/5/2016			<0.01	<0.01	<0.01	
5/25/2016						<0.01
5/31/2016	<0.01			<0.01	<0.01	
6/1/2016		<0.01	<0.01			
8/1/2016						0.0005 (J)
8/4/2016	<0.01				<0.01	
8/9/2016			0.0003 (J)			
9/27/2016						<0.01
9/29/2016	<0.01				<0.01	
11/11/2016						0.0006 (J)
11/23/2016				<0.01	<0.01	
11/28/2016	<0.01		<0.01			
1/31/2017						0.0007 (J)
2/9/2017	<0.01		<0.01			
2/10/2017				<0.01	<0.01	
2/22/2017		<0.01				
4/3/2017						0.0005 (J)
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	<0.01				0.0006 (J)	
6/12/2017						0.0004 (J)
6/14/2017			<0.01			
6/15/2017				<0.01	0.0004 (J)	
6/16/2017	<0.01	<0.01				
7/12/2017		<0.01	<0.01	<0.01		
7/26/2017				<0.01		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.01				
8/10/2017		<0.01				
10/3/2017						0.0003 (J)
10/5/2017			<0.01			
10/6/2017		<0.01		<0.01	<0.01	
10/9/2017	<0.01					
3/19/2018						<0.01
3/21/2018	<0.01					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						<0.01
9/19/2018	<0.01		0.00058 (J)	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						<0.01
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	<0.01					
3/25/2019					<0.01	
9/16/2019						<0.01
9/17/2019			<0.01	<0.01	<0.01	
9/18/2019	0.0005 (J)	<0.01				
3/13/2020	<0.01		<0.01	<0.01	<0.01	
3/16/2020						0.00031 (J)
3/17/2020		<0.01				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

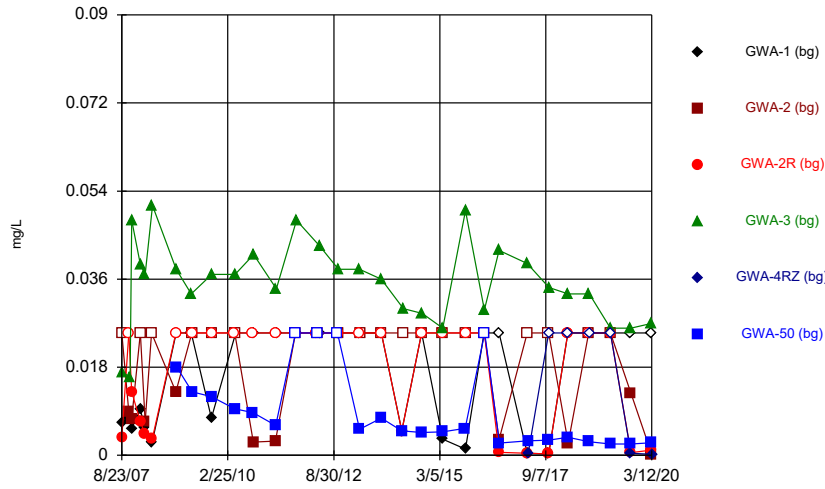
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						<0.01
10/25/2007	0.0038					
11/1/2007						<0.01
11/19/2007						0.0034
11/20/2007	<0.01					
1/15/2008						0.0067
1/23/2008	0.0047					
3/6/2008						0.13 (o)
3/11/2008	<0.01					
5/13/2008						<0.01
5/14/2008	<0.01					
12/11/2008	<0.01					
12/12/2008						0.0042
4/16/2009						0.0047
4/23/2009	<0.01					
10/9/2009	<0.01					
10/13/2009						0.0037
4/21/2010						<0.01
5/4/2010	<0.01					
9/29/2010						<0.01
10/11/2010	<0.01					
4/13/2011						<0.01
4/26/2011	<0.01					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	<0.01					
10/8/2013	<0.01					
10/9/2013				<0.01		0.0013
4/9/2014						0.0013 (J)
4/10/2014				0.0013 (J)		
4/14/2014	0.0013 (J)					
9/30/2014						<0.01
10/2/2014				<0.01		
10/3/2014	0.00071 (J)					
4/1/2015	<0.01					
4/2/2015						0.00064 (J)
4/3/2015				<0.01		
5/26/2015		<0.01			0.0018	
6/18/2015		<0.01 (D)			0.0018 (D)	
7/2/2015		<0.01			0.0013	
10/8/2015				0.0014	<0.01	
10/9/2015	<0.01	<0.01				
10/10/2015						0.0015 (D)
3/22/2016					<0.01	
3/29/2016	<0.01	<0.01				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

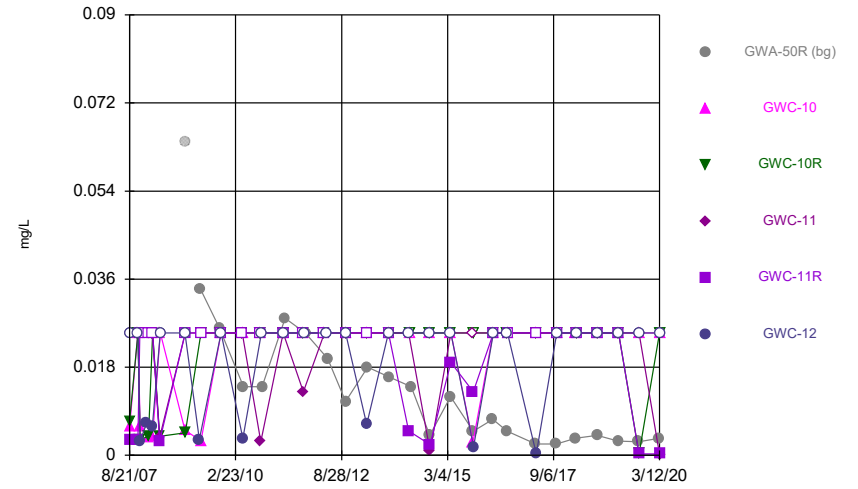
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.01		<0.01
5/24/2016	<0.01	<0.01		<0.01		
5/25/2016					<0.01	
5/26/2016						<0.01
5/31/2016			<0.01 (o)			
8/1/2016	<0.01	<0.01				
8/2/2016			0.0018 (J)	<0.01	<0.01	
8/5/2016						<0.01
9/26/2016	<0.01	<0.01			<0.01	
9/27/2016			0.0011 (J)	<0.01		
9/28/2016						<0.01
11/14/2016		<0.01				
11/18/2016	<0.01					
11/21/2016			0.0008 (J)		<0.01	<0.01
11/22/2016				<0.01		
2/1/2017	<0.01	<0.01	0.0008 (J)			
2/3/2017					<0.01	
2/6/2017				<0.01		<0.01
4/6/2017	<0.01	<0.01	0.0008 (J)	<0.01		<0.01
4/7/2017					<0.01	
6/13/2017	<0.01	<0.01	0.0007 (J)		<0.01	<0.01
6/14/2017				<0.01		
7/14/2017			0.0005 (J)			
10/3/2017	<0.01	<0.01	0.0007 (J)		<0.01	<0.01
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	0.00076 (J)		<0.01	<0.01
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			0.00055 (J)	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	0.00059 (J)			<0.01
3/27/2019				<0.01		
5/6/2019					<0.01	
9/13/2019			0.00099 (J)			
9/16/2019	<0.01	<0.01		<0.01 (D)	<0.01	<0.01
3/12/2020	<0.01	<0.01	0.00031 (J)	<0.01		0.00044 (J)
3/16/2020					<0.01	

Time Series



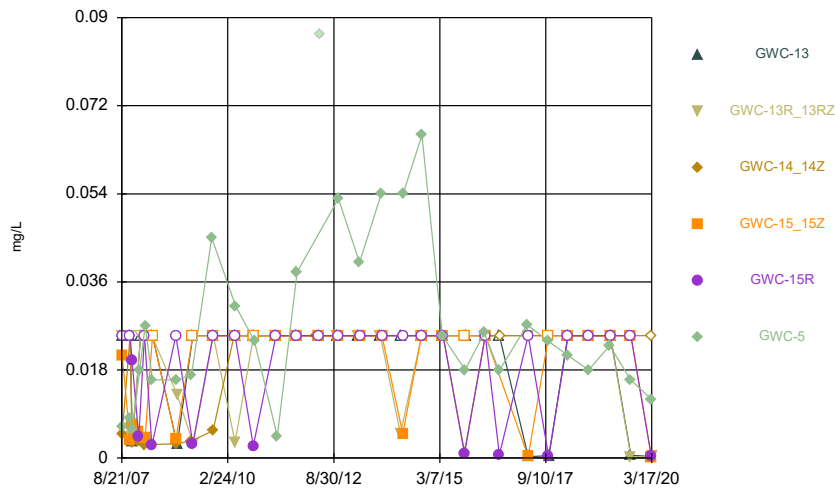
Constituent: Copper Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



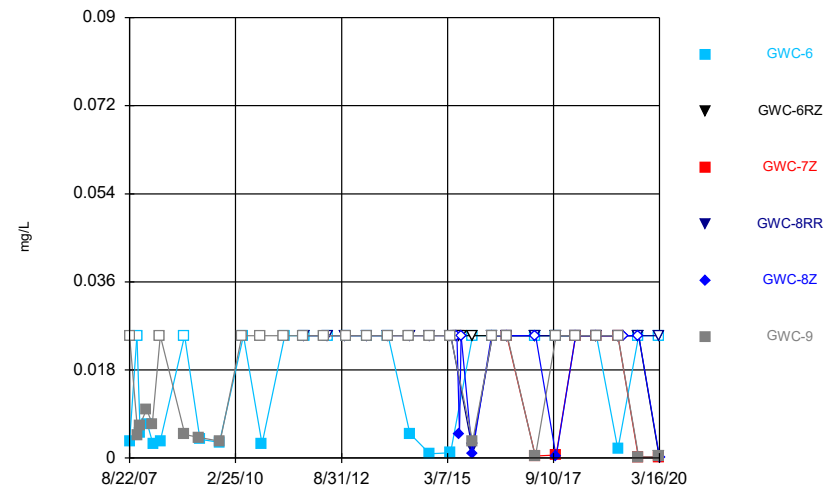
Constituent: Copper Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Copper Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Copper Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	0.0066	<0.025	0.0036	0.017		
10/23/2007	0.0076					
10/24/2007		0.0088	<0.025			
11/2/2007				0.016		
11/18/2007	0.0055 (J)	0.0075	0.013	0.048		
1/30/2008	0.0094					
1/31/2008		<0.025	0.0069	0.039		
3/10/2008	0.0056		0.0044			
3/11/2008		0.0068		0.037		
5/6/2008		<0.025				
5/13/2008	0.0027		0.0033			
5/14/2008				0.051		
12/4/2008		0.013	<0.025			
12/5/2008	<0.025			0.038		
12/12/2008						0.018
4/15/2009	<0.025			0.033		
4/21/2009		<0.025	<0.025			
4/23/2009						0.013
10/6/2009						0.012
10/7/2009	0.0076	<0.025				
10/8/2009			<0.025	0.037		
4/21/2010			<0.025			
4/26/2010		<0.025				
4/27/2010						0.0095
4/28/2010				0.037		
5/3/2010	<0.025					
9/28/2010			<0.025			
9/30/2010						0.0087
10/4/2010		0.0027				
10/6/2010				0.041		
10/12/2010	<0.025					
4/12/2011			<0.025			
4/13/2011		0.0029				
4/14/2011						0.0061
4/21/2011				0.034		
4/27/2011	<0.025					
10/4/2011			<0.025			
10/5/2011		<0.025				<0.025
10/13/2011				0.048		
10/17/2011	<0.025					
4/3/2012			<0.025			
4/11/2012		<0.025				<0.025
5/1/2012				0.0427		
5/2/2012	<0.025					
10/2/2012						<0.025
10/8/2012	<0.025					
10/9/2012		<0.025	<0.025	0.038		
4/9/2013						0.0053
4/11/2013			<0.025	0.038		
4/12/2013	<0.025					
4/15/2013		<0.025				
10/15/2013		<0.025				0.0076

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.025		<0.025	0.036		
4/10/2014			0.005 (J)			0.005
4/11/2014	0.005 (J)					
4/22/2014		<0.025				
4/23/2014				0.03		
9/30/2014	<0.025	<0.025	<0.025			
10/1/2014						0.0047 (J)
10/4/2014				0.029		
3/30/2015	0.0033 (J)	<0.025	<0.025			0.0048 (J)
3/31/2015				0.026		
10/11/2015						0.0055
10/12/2015				0.05		
10/13/2015	0.0013 (J)	<0.025	<0.025			
3/22/2016	<0.025					
3/23/2016		<0.025	<0.025	0.0297		
3/28/2016						<0.025
7/29/2016	<0.025	0.0032 (J)	0.0006 (J)	0.0419		
8/1/2016						0.0025 (J)
3/30/2017	0.0004 (J)	<0.025		0.0392		
4/3/2017			0.0004 (J)			
4/7/2017					0.0004 (J)	0.003 (J)
10/2/2017	0.0003 (J)	<0.025	0.0003 (J)			0.0031 (J)
10/3/2017					<0.025	
10/4/2017				0.0343		
3/16/2018	<0.025		<0.025			0.0037 (J)
3/19/2018		0.0025 (J)		0.033		
3/21/2018					<0.025	
9/14/2018		<0.025	<0.025			
9/17/2018	<0.025 (D)			0.033		0.0028 (J)
9/18/2018					<0.025	
3/19/2019			<0.025			0.0023 (J)
3/20/2019	<0.025	<0.025		0.026		
3/21/2019					<0.025	
9/12/2019	<0.025	0.01273 (D)			0.00045 (J)	
9/13/2019			0.00055 (J)	0.026		0.0023 (J)
3/11/2020	<0.025	0.0002 (J)	0.0011 (J)	0.027		0.0026 (J)
3/12/2020					0.0002 (J)	

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		0.0058	0.007	<0.025	0.0032	<0.025
11/1/2007		<0.025	<0.025	<0.025	0.0031	<0.025
11/18/2007				<0.025	<0.025	
11/19/2007						0.0029
11/20/2007		0.006	0.0032			
1/16/2008						0.0067
1/30/2008		0.0037	0.0039	<0.025	<0.025	
3/5/2008				<0.025		0.0058
3/6/2008		0.004	<0.025		<0.025	
5/7/2008				0.0037	0.0029	
5/8/2008			0.0039			
5/12/2008		<0.025				
5/13/2008						<0.025
12/12/2008	0.064 (O)					
12/13/2008		0.0051				<0.025
12/14/2008			0.0046	<0.025	<0.025	
4/16/2009						0.0032
4/23/2009	0.034					
4/29/2009		0.003	<0.025	<0.025	<0.025	
10/6/2009	0.026					
10/20/2009		<0.025				
10/21/2009			<0.025			<0.025
10/22/2009				<0.025	<0.025	
4/21/2010			<0.025	<0.025	<0.025	
4/26/2010		<0.025				
4/27/2010						0.0034
5/3/2010	0.014					
9/28/2010			<0.025	0.0028		
9/29/2010		<0.025			<0.025	
10/5/2010						<0.025
10/11/2010	0.014					
4/12/2011			<0.025	<0.025		
4/13/2011		<0.025			<0.025	
4/19/2011						<0.025
4/27/2011	0.028					
10/4/2011			<0.025	0.013	<0.025	
10/5/2011		<0.025				
10/12/2011						<0.025
10/19/2011	<0.025					
4/3/2012			<0.025	<0.025		
4/4/2012		<0.025			<0.025	
4/24/2012						<0.025
5/1/2012	0.0198					
10/2/2012	0.011					<0.025
10/3/2012		<0.025		<0.025	<0.025	
10/8/2012			<0.025			
4/2/2013						0.0063
4/3/2013		<0.025	<0.025	<0.025	<0.025	
4/10/2013	0.018					
10/9/2013				<0.025	<0.025	<0.025
10/15/2013		<0.025	<0.025			
10/16/2013	0.016					

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.025
4/2/2014				<0.025	0.005 (J)	
4/9/2014		<0.025	<0.025			
4/22/2014	0.014					
10/1/2014	0.0041 (J)					
10/2/2014		<0.025	<0.025	0.00084 (J)	0.0022 (J)	<0.025
3/30/2015	0.012					
4/1/2015				<0.025	0.019	<0.025
4/2/2015		<0.025	<0.025			
10/10/2015		0.0027 (J)				
10/11/2015	0.0049 (J)			<0.025	0.013	
10/12/2015			<0.025			
10/14/2015						0.0017 (J)
3/28/2016	0.00734 (J)					
3/31/2016		<0.025	<0.025			
4/4/2016				<0.025	<0.025	<0.025
8/1/2016	0.0049 (J)					
8/3/2016			<0.025	<0.025		<0.025
8/4/2016					<0.025	
8/5/2016		<0.025				
4/3/2017	0.0023 (J)					
4/10/2017		<0.025	<0.025	<0.025	<0.025	
4/11/2017						0.0003 (J)
10/2/2017	0.0023 (J)					
10/4/2017		<0.025	<0.025	<0.025	<0.025	<0.025
3/16/2018	0.0035 (J)					
3/20/2018		<0.025				
3/21/2018			<0.025	<0.025		
3/22/2018					<0.025	<0.025
9/18/2018	0.0041 (J)	<0.025	<0.025	<0.025	<0.025	<0.025
3/19/2019	0.0029 (J)					
3/22/2019		<0.025	<0.025			
3/23/2019				<0.025	<0.025	<0.025
9/12/2019	0.0028 (J)					
9/17/2019		<0.025	0.00029 (J)	<0.025	0.00031 (J)	<0.025 (D)
3/11/2020	0.0035 (J)					
3/12/2020		<0.025	<0.025	0.00023 (J)	0.00032 (J)	<0.025

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.025	<0.025				
8/23/2007					<0.025	0.0064
8/24/2007			0.0048 (J)	0.021		
10/25/2007						0.0081
11/1/2007	<0.025	<0.025				
11/2/2007			<0.025	0.0037	<0.025	
11/17/2007			0.0031		0.02	
11/18/2007				0.007 (J)		
11/19/2007	0.0035	0.0043				0.0059
1/15/2008			0.0033	0.0055	0.0043	
1/23/2008						0.018
1/31/2008	<0.025	<0.025				
3/5/2008	<0.025	<0.025	0.0026			
3/6/2008					<0.025	
3/10/2008				0.0042		
3/11/2008						0.027
5/7/2008		<0.025	0.0028		0.0026	
5/12/2008	<0.025					0.016
5/13/2008				<0.025		
12/2/2008			0.0029	0.0039	<0.025	
12/11/2008						0.016
12/12/2008		0.013				
12/13/2008	0.0028					
4/15/2009						0.017
4/16/2009			0.0035			
4/28/2009	<0.025			<0.025	0.003	
4/29/2009		0.0029				
10/9/2009						0.045
10/19/2009					<0.025	
10/20/2009			0.0056	<0.025		
10/21/2009	<0.025	<0.025				
4/20/2010			<0.025			
4/27/2010				<0.025	<0.025	
4/28/2010	<0.025	0.0032				
5/4/2010						0.031
9/29/2010			<0.025			
10/4/2010					0.0025	
10/5/2010	<0.025			<0.025		
10/6/2010		<0.025				
10/12/2010						0.024
4/12/2011			<0.025			
4/18/2011					<0.025	
4/19/2011	<0.025			<0.025		
4/20/2011		<0.025				
4/28/2011						0.0044
10/4/2011			<0.025			
10/12/2011		<0.025		<0.025	<0.025	
10/18/2011	<0.025					
10/19/2011						0.038
4/4/2012			<0.025			
4/23/2012					<0.025	
4/25/2012	<0.025	<0.025		<0.025		

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						0.0865 (O)
10/2/2012	<0.025	<0.025				
10/9/2012						0.053
10/10/2012			<0.025	<0.025	<0.025	
4/2/2013	<0.025	<0.025				
4/11/2013						0.04
4/15/2013			<0.025		<0.025	
4/16/2013				<0.025		
10/8/2013	<0.025	<0.025				
10/16/2013						0.054
10/22/2013			<0.025	<0.025	<0.025	
4/1/2014	<0.025	0.005 (J)				
4/21/2014			<0.025	0.005 (J)	<0.025	
4/23/2014						0.054
9/30/2014			<0.025	<0.025	<0.025	
10/1/2014	<0.025	<0.025				
10/3/2014						0.066
3/31/2015		<0.025				0.025
4/1/2015	<0.025					
4/3/2015			<0.025	<0.025	<0.025	
10/6/2015				<0.025		
10/7/2015			0.0012 (J)		0.00093 (J)	
10/12/2015						0.018
10/14/2015		<0.025				
10/15/2015	<0.025					
3/28/2016						0.0256
4/4/2016	<0.025	<0.025				
4/5/2016			<0.025	<0.025	<0.025	
8/1/2016						0.0178 (J)
8/4/2016	<0.025				0.0007 (J)	
8/9/2016			<0.025			
4/3/2017						0.0272
4/11/2017		<0.025	<0.025	0.0003 (J)		
4/12/2017	0.0003 (J)				<0.025	
10/3/2017						0.0239 (J)
10/5/2017			<0.025			
10/6/2017		<0.025		<0.025	0.0003 (J)	
10/9/2017	0.0005 (J)					
3/19/2018						0.021 (J)
3/21/2018	<0.025					
3/22/2018			<0.025			
3/23/2018		<0.025		<0.025	<0.025	
9/17/2018						0.018 (J)
9/19/2018	<0.025		<0.025	<0.025	<0.025	
9/20/2018		<0.025				
3/20/2019						0.023 (J)
3/22/2019		<0.025	<0.025	<0.025		
3/23/2019	<0.025					
3/25/2019					<0.025	
9/16/2019						0.016 (J)
9/17/2019			<0.025	<0.025	<0.025	
9/18/2019	0.00057 (J)	0.00021 (X)				

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	0.00033 (J)		<0.025	0.0002 (J)	0.00029 (J)	
3/16/2020						0.012 (J)
3/17/2020		0.00045 (J)				

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

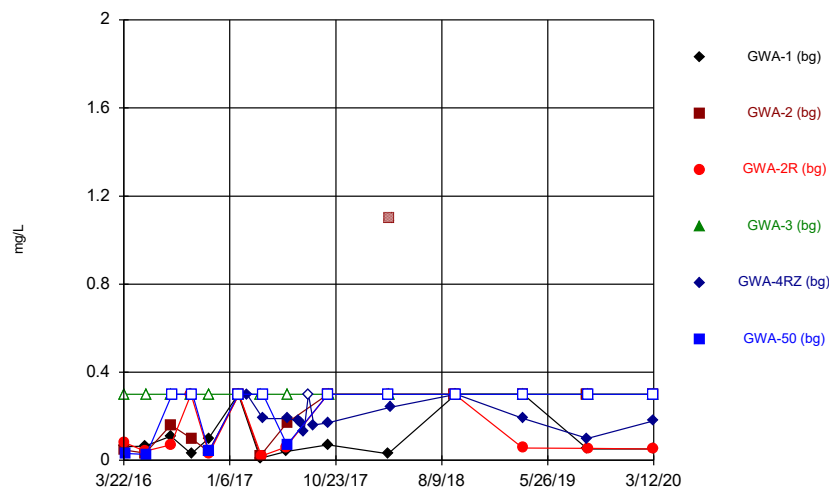
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	0.0033					
8/23/2007						<0.025
10/25/2007	<0.025					
11/1/2007						0.0047
11/19/2007						0.0067 (J)
11/20/2007	0.0052					
1/15/2008						0.01
1/23/2008	0.0069					
3/6/2008						0.007
3/11/2008	0.0029					
5/13/2008						<0.025
5/14/2008	0.0035					
12/11/2008	<0.025					
12/12/2008						0.0048
4/16/2009						0.0042
4/23/2009	0.0038					
10/9/2009	0.0032					
10/13/2009						0.0034
4/21/2010						<0.025
5/4/2010	<0.025					
9/29/2010						<0.025
10/11/2010	0.0029					
4/13/2011						<0.025
4/26/2011	<0.025					
10/5/2011						<0.025
10/18/2011	<0.025			<0.025		
4/4/2012						<0.025
4/30/2012				<0.025		
5/2/2012	<0.025					
10/3/2012				<0.025		
10/8/2012	<0.025					<0.025
4/8/2013				<0.025		<0.025
4/10/2013	<0.025					
10/8/2013	<0.025					
10/9/2013				<0.025		<0.025
4/9/2014						<0.025
4/10/2014				<0.025		
4/14/2014	0.005 (J)					
9/30/2014						<0.025
10/2/2014				<0.025		
10/3/2014	0.00091 (J)					
4/1/2015	0.0011 (J)					
4/2/2015						<0.025
4/3/2015				<0.025		
5/26/2015		<0.025			<0.025	
6/18/2015		<0.025 (D)			0.005 (D)	
7/2/2015		<0.025			<0.025	
10/8/2015				0.002 (J)	0.00091 (J)	
10/9/2015	<0.025	<0.025				
10/10/2015						0.00345 (D)
3/22/2016					<0.025	
3/29/2016	<0.025	<0.025				

Time Series

Constituent: Copper (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

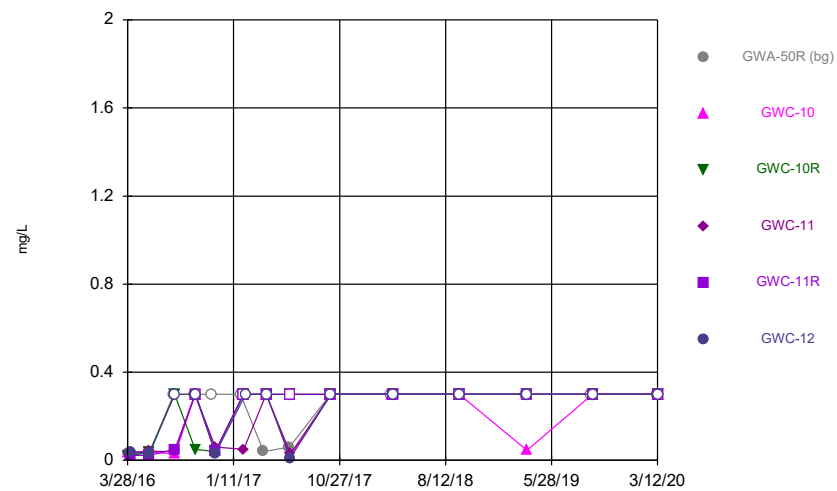
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.025		<0.025
8/1/2016	<0.025	<0.025				
8/2/2016			<0.025	<0.025	<0.025	
8/5/2016						<0.025
4/6/2017	<0.025	<0.025	0.0004 (J)	<0.025		0.0003 (J)
4/7/2017					<0.025	
10/3/2017	<0.025	<0.025	0.0006 (J)		0.0003 (J)	<0.025
10/4/2017				<0.025		
3/19/2018	<0.025					
3/20/2018		<0.025	<0.025		<0.025	<0.025
3/21/2018				<0.025		
9/17/2018	<0.025	<0.025				
9/18/2018			<0.025	<0.025	<0.025	<0.025 (D)
3/21/2019	0.0018 (J)	<0.025	<0.025			<0.025
3/27/2019				<0.025		
5/6/2019					<0.025	
9/13/2019			0.00025 (J)			
9/16/2019	<0.025	<0.025		<0.025 (D)	<0.025	0.00021 (J)
3/12/2020	<0.025	0.00028 (J)	0.00021 (J)	<0.025		0.00031 (J)
3/16/2020					0.00024 (J)	

Time Series



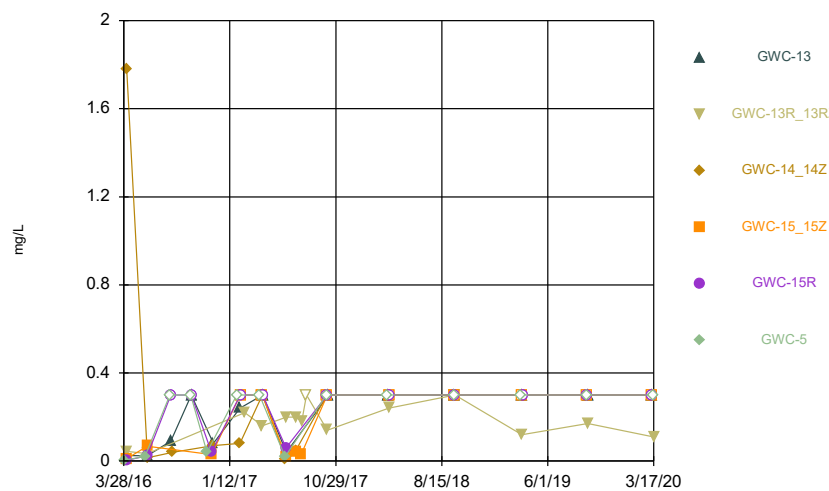
Constituent: Fluoride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



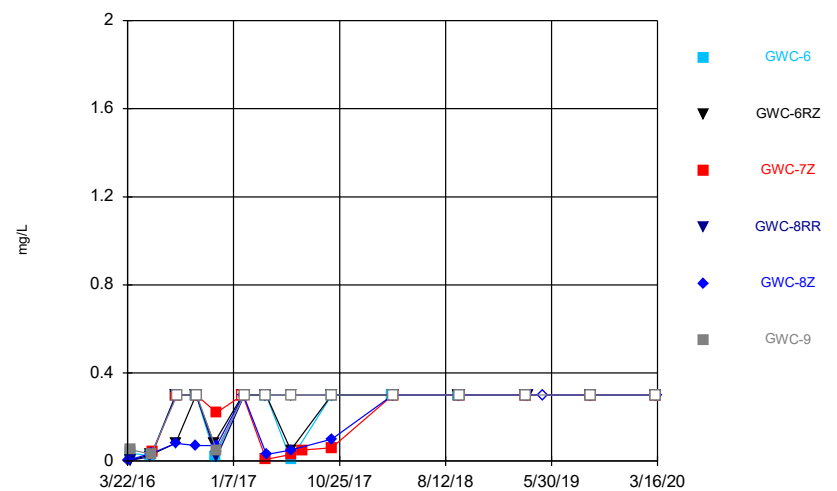
Constituent: Fluoride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Fluoride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Fluoride Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	0.0614 (J)					
3/23/2016		0.0477 (J)	0.0826 (J)	<0.3		
3/28/2016						0.0314 (J)
5/19/2016	0.064 (J)		0.0409 (J)			
5/20/2016		0.033 (J)				
5/23/2016				<0.3		0.027 (J)
7/29/2016	0.11 (J)	0.16 (J)	0.07 (J)	<0.3		
8/1/2016						<0.3
9/22/2016			<0.3	<0.3		
9/23/2016	0.03 (J)	0.1 (J)				
9/26/2016						<0.3
11/9/2016	0.1 (J)	0.04 (J)				
11/10/2016			0.03 (J)	<0.3		0.04 (J)
1/30/2017	<0.3					<0.3
1/31/2017		<0.3	<0.3	<0.3		
2/22/2017					0.3	
3/30/2017	0.01 (J)	0.02 (J)		<0.3		
4/3/2017			0.02 (J)			
4/7/2017					0.19 (J)	<0.3
6/9/2017	0.04 (J)		0.06 (J)			
6/12/2017		0.17 (J)		<0.3		0.07 (J)
6/14/2017					0.19 (J)	
7/12/2017					0.18 (J)	
7/20/2017					0.17 (J)	
7/28/2017					0.13 (J)	
8/9/2017					<0.3	
8/24/2017					0.16 (J)	
10/2/2017	0.07 (J)	<0.3	<0.3			<0.3
10/3/2017					0.17 (J)	
10/4/2017				<0.3		
3/16/2018	0.029 (J)		<0.3			<0.3
3/19/2018		1.1 (o)		<0.3		
3/21/2018					0.24 (J)	
9/14/2018		<0.3	<0.3			
9/17/2018	<0.3 (D)			<0.3		<0.3
9/18/2018					<0.3	
3/19/2019			0.056 (J)			<0.3
3/20/2019	<0.3	<0.3		<0.3		
3/21/2019					0.19 (J)	
9/12/2019	0.051 (J)	<0.3 (D)			0.1 (J)	
9/13/2019			0.055 (J)	<0.3		<0.3
3/11/2020	0.052 (J)	<0.3	0.052 (J)	<0.3		<0.3
3/12/2020					0.18 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	0.0326 (J)					
3/31/2016		0.0389 (J)	0.0209 (J)			
4/4/2016				0.0357 (J)	0.022 (J)	0.035 (J)
5/25/2016	0.0285 (J)					
5/26/2016		0.0375 (J)	0.037 (J)	0.042 (J)	0.023 (J)	
5/27/2016						0.032 (J)
8/1/2016	<0.3					
8/3/2016			<0.3	0.04 (J)		<0.3
8/4/2016					0.05 (J)	
8/5/2016		0.03 (J)				
9/26/2016	<0.3					
9/28/2016		<0.3	0.05 (J)	<0.3	<0.3	
9/30/2016						<0.3
11/11/2016	<0.3					
11/22/2016		0.04 (J)	0.04 (J)	0.06 (J)	0.04 (J)	0.03 (J)
1/30/2017	<0.3					
2/7/2017		<0.3	<0.3			
2/8/2017				0.05 (J)	<0.3	
2/13/2017						<0.3
4/3/2017	0.04 (J)					
4/10/2017		<0.3	<0.3	<0.3	<0.3	
4/11/2017						<0.3
6/12/2017	0.06 (J)					
6/14/2017		0.02 (J)	<0.3			0.01 (J)
6/15/2017				0.03 (J)	<0.3	
10/2/2017	<0.3					
10/4/2017		<0.3	<0.3	<0.3	<0.3	<0.3
3/16/2018	<0.3					
3/20/2018		<0.3				
3/21/2018			<0.3	<0.3		
3/22/2018					<0.3	<0.3
9/18/2018	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
3/19/2019	<0.3					
3/22/2019		0.045 (J)	<0.3			
3/23/2019				<0.3	<0.3	<0.3
9/12/2019	<0.3					
9/17/2019		<0.3	<0.3	<0.3	<0.3	<0.3 (D)
3/11/2020	<0.3					
3/12/2020		<0.3	<0.3	<0.3	<0.3	<0.3

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

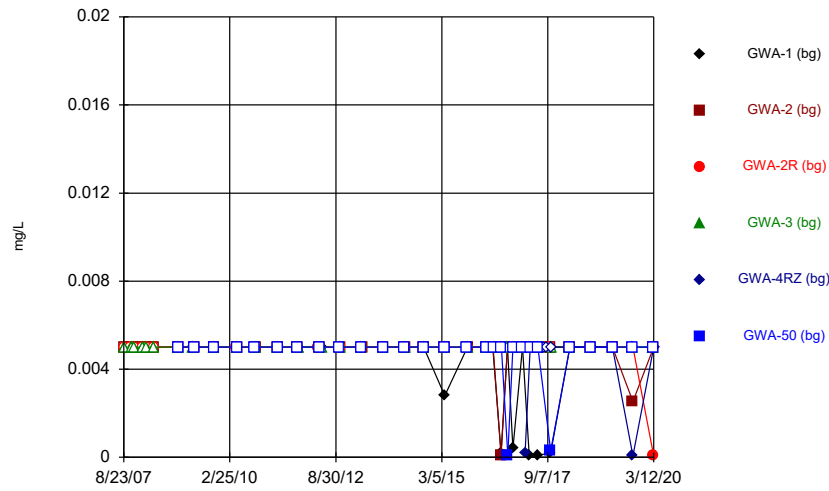
Date	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						0.00421 (J)
4/4/2016	0.026 (J)	0.044 (J)				
4/5/2016			1.78243 (J)	0.011 (J)	0.00288 (J)	
5/25/2016						0.0207 (J)
5/31/2016	0.0234 (J)			0.0669 (J)	0.0233 (J)	
6/1/2016		0.0338 (J)	0.0148 (J)			
8/1/2016						<0.3
8/4/2016	0.09 (J)				<0.3	
8/9/2016			0.04 (J)			
9/27/2016						<0.3
9/29/2016	<0.3				<0.3	
11/11/2016						0.04 (J)
11/23/2016				0.03 (J)	0.04 (J)	
11/28/2016	0.08 (J)		0.07 (J)			
1/31/2017						<0.3
2/9/2017	0.24 (J)		0.08 (J)			
2/10/2017				<0.3	<0.3	
2/22/2017		0.22 (J)				
4/3/2017						<0.3
4/11/2017		0.16 (J)	<0.3	<0.3		
4/12/2017	<0.3				<0.3	
6/12/2017						0.02 (J)
6/14/2017			0.01 (J)			
6/15/2017				0.02 (J)	0.06 (J)	
6/16/2017	0.04 (J)	0.2 (J)				
7/12/2017		0.2 (J)	0.05 (J)	0.04 (J)		
7/26/2017				0.03 (J)		
7/28/2017		0.18 (J)				
8/10/2017		<0.3				
10/3/2017						<0.3
10/5/2017			<0.3			
10/6/2017		0.14 (J)		<0.3	<0.3	
10/9/2017	<0.3					
3/19/2018						<0.3
3/21/2018	<0.3					
3/22/2018			<0.3			
3/23/2018		0.24 (J)		<0.3	<0.3	
9/17/2018						<0.3
9/19/2018	<0.3		<0.3	<0.3	<0.3	
9/20/2018		<0.3				
3/20/2019						<0.3
3/22/2019		0.12 (J)	<0.3	<0.3		
3/23/2019	<0.3					
3/25/2019					<0.3	
9/16/2019						<0.3
9/17/2019			<0.3	<0.3	<0.3	
9/18/2019	<0.3	0.17 (X)				
3/13/2020	<0.3		<0.3	<0.3	<0.3	
3/16/2020						<0.3
3/17/2020		0.11 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

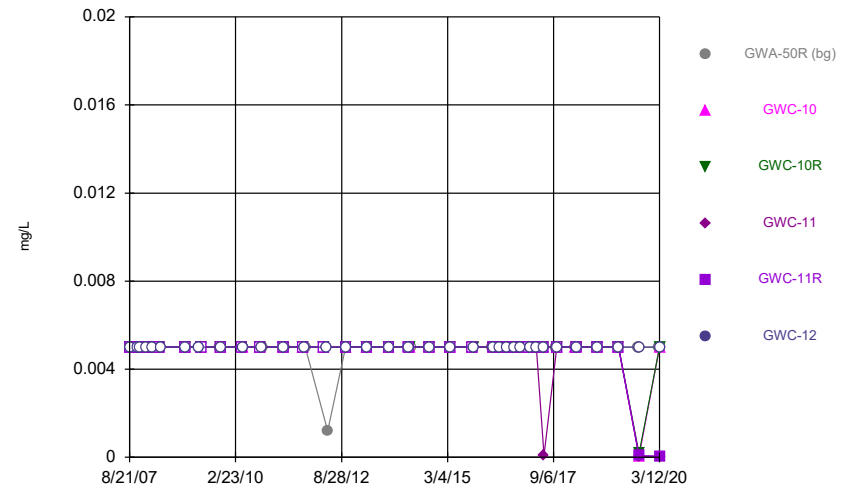
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					0.00323 (J)	
3/29/2016	0.0376 (J)	0.00363 (J)				
3/30/2016				0.00345 (J)		0.0518 (J)
5/24/2016	0.023 (J)	0.0286 (J)		0.019 (J)		
5/25/2016					0.0345 (J)	
5/26/2016						0.0307 (J)
5/31/2016			0.043 (J)			
8/1/2016	<0.3	0.08 (J)				
8/2/2016			<0.3	<0.3	0.08 (J)	
8/5/2016						<0.3
9/26/2016	<0.3	<0.3			0.07 (J)	
9/27/2016			<0.3	<0.3		
9/28/2016						<0.3
11/14/2016		0.08 (J)				
11/18/2016	0.02 (J)					
11/21/2016			0.22 (J)		0.07 (J)	0.05 (J)
11/22/2016				0.02 (J)		
2/1/2017	<0.3	<0.3	<0.3			
2/3/2017					<0.3	
2/6/2017				<0.3		<0.3
4/6/2017	<0.3	<0.3	0.008 (J)	<0.3		<0.3
4/7/2017					0.03 (J)	
6/13/2017	0.006 (J)	0.05 (J)	0.03 (J)		0.05 (J)	<0.3
6/14/2017				<0.3		
7/14/2017			0.05 (J)			
10/3/2017	<0.3	<0.3	0.06 (J)		0.1 (J)	<0.3
10/4/2017				<0.3		
3/19/2018	<0.3					
3/20/2018		<0.3	<0.3		<0.3	<0.3
3/21/2018				<0.3		
9/17/2018	<0.3	<0.3				
9/18/2018			<0.3	<0.3	<0.3	<0.3 (D)
3/21/2019	<0.3	<0.3	<0.3			<0.3
3/27/2019				<0.3		
5/6/2019					<0.3	
9/13/2019			<0.3			
9/16/2019	<0.3	<0.3		<0.3 (D)	<0.3	<0.3
3/12/2020	<0.3	<0.3	<0.3	<0.3		<0.3
3/16/2020					<0.3	

Time Series



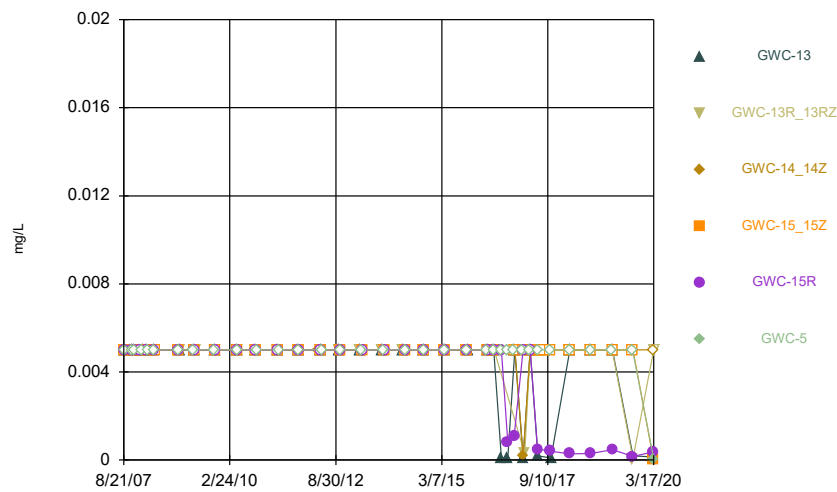
Constituent: Lead Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



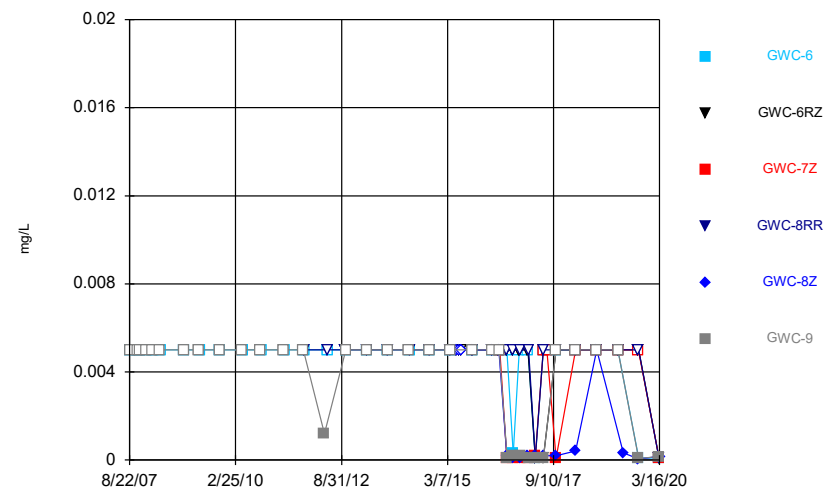
Constituent: Lead Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Lead Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Lead Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.005	<0.005	<0.005	<0.005		
10/23/2007	<0.005					
10/24/2007		<0.005	<0.005			
11/2/2007				<0.005		
11/18/2007	<0.005	<0.005	<0.005	<0.005		
1/30/2008	<0.005					
1/31/2008		<0.005	<0.005	<0.005		
3/10/2008	<0.005		<0.005			
3/11/2008		<0.005		<0.005		
5/6/2008		<0.005				
5/13/2008	<0.005		<0.005			
5/14/2008				<0.005		
12/4/2008		<0.005	<0.005			
12/5/2008	<0.005			<0.005		
12/12/2008						<0.005
4/15/2009	<0.005			<0.005		
4/21/2009		<0.005	<0.005			
4/23/2009						<0.005
10/6/2009						<0.005
10/7/2009	<0.005	<0.005				
10/8/2009			<0.005	<0.005		
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010						<0.005
4/28/2010				<0.005		
5/3/2010	<0.005					
9/28/2010			<0.005			
9/30/2010						<0.005
10/4/2010		<0.005				
10/6/2010				<0.005		
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011						<0.005
4/21/2011				<0.005		
4/27/2011	<0.005					
10/4/2011			<0.005			
10/5/2011		<0.005				<0.005
10/13/2011				<0.005		
10/17/2011	<0.005					
4/3/2012			<0.005			
4/11/2012		<0.005				<0.005
5/1/2012				<0.005		
5/2/2012	<0.005					
10/2/2012						<0.005
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005	<0.005		
4/9/2013						<0.005
4/11/2013			<0.005	<0.005		
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005				<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.005		<0.005	<0.005		
4/10/2014			<0.005			<0.005
4/11/2014	<0.005					
4/22/2014		<0.005				
4/23/2014				<0.005		
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014						<0.005
10/4/2014				<0.005		
3/30/2015	0.0028 (J)	<0.005	<0.005			<0.005
3/31/2015				<0.005		
10/11/2015						<0.005
10/12/2015				<0.005		
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005	<0.005		
3/28/2016						<0.005
5/19/2016	<0.005		<0.005			
5/20/2016		<0.005				
5/23/2016				<0.005		<0.005
7/29/2016	0.0002 (J)	0.0001 (J)	<0.005	<0.005		
8/1/2016						<0.005
9/22/2016			<0.005	<0.005		
9/23/2016	<0.005	<0.005				
9/26/2016						0.0001 (J)
11/9/2016	0.0004 (J)	<0.005				
11/10/2016			<0.005	<0.005		<0.005
1/30/2017	<0.005					<0.005
1/31/2017		<0.005	<0.005	<0.005		
2/22/2017					0.0002 (J)	
3/30/2017	8E-05 (J)	<0.005		<0.005		
4/3/2017			<0.005			
4/7/2017					<0.005	<0.005
6/9/2017	0.0001 (J)		<0.005			
6/12/2017		<0.005		<0.005		<0.005
6/14/2017					<0.005	
7/12/2017					<0.005	
7/20/2017					<0.005	
7/28/2017					<0.005	
8/9/2017					<0.005	
8/24/2017					<0.005	
10/2/2017	0.0002 (J)	<0.005	<0.005			0.0003 (J)
10/3/2017					<0.005	
10/4/2017				<0.005		
3/16/2018	<0.005		<0.005			<0.005
3/19/2018		<0.005		<0.005		
3/21/2018					<0.005	
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)			<0.005		<0.005
9/18/2018					<0.005	
3/19/2019			<0.005			<0.005
3/20/2019	<0.005	<0.005		<0.005		
3/21/2019					<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	<0.005	0.002536 (D)			6.5E-05 (J)	
9/13/2019			<0.005	<0.005		<0.005
3/11/2020	<0.005	<0.005	5.8E-05 (J)	<0.005		<0.005
3/12/2020					<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2007		<0.005	<0.005	<0.005	<0.005	<0.005
11/18/2007				<0.005	<0.005	
11/19/2007						<0.005
11/20/2007		<0.005	<0.005			
1/16/2008						<0.005
1/30/2008		<0.005	<0.005	<0.005	<0.005	
3/5/2008				<0.005		<0.005
3/6/2008		<0.005	<0.005		<0.005	
5/7/2008				<0.005	<0.005	
5/8/2008			<0.005			
5/12/2008		<0.005				
5/13/2008						<0.005
12/12/2008	<0.005					
12/13/2008		<0.005				<0.005
12/14/2008			<0.005	<0.005	<0.005	
4/16/2009						<0.005
4/23/2009	<0.005					
4/29/2009		<0.005	<0.005	<0.005	<0.005	
10/6/2009	<0.005					
10/20/2009		<0.005				
10/21/2009			<0.005			<0.005
10/22/2009				<0.005	<0.005	
4/21/2010			<0.005	<0.005	<0.005	
4/26/2010		<0.005				
4/27/2010						<0.005
5/3/2010	<0.005					
9/28/2010			<0.005	<0.005		
9/29/2010		<0.005			<0.005	
10/5/2010						<0.005
10/11/2010	<0.005					
4/12/2011			<0.005	<0.005		
4/13/2011		<0.005			<0.005	
4/19/2011						<0.005
4/27/2011	<0.005					
10/4/2011			<0.005	<0.005	<0.005	
10/5/2011		<0.005				
10/12/2011						<0.005
10/19/2011	<0.005					
4/3/2012			<0.005	<0.005		
4/4/2012		<0.005			<0.005	
4/24/2012						<0.005
5/1/2012	0.0012					
10/2/2012	<0.005					<0.005
10/3/2012		<0.005		<0.005	<0.005	
10/8/2012			<0.005			
4/2/2013						<0.005
4/3/2013		<0.005	<0.005	<0.005	<0.005	
4/10/2013	<0.005					
10/9/2013				<0.005	<0.005	<0.005
10/15/2013		<0.005	<0.005			
10/16/2013	<0.005					

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.005
4/2/2014				<0.005	<0.005	
4/9/2014		<0.005	<0.005			
4/22/2014	<0.005					
10/1/2014	<0.005					
10/2/2014		<0.005	<0.005	<0.005	<0.005	<0.005
3/30/2015	<0.005					
4/1/2015				<0.005	<0.005	<0.005
4/2/2015		<0.005	<0.005			
10/10/2015		<0.005				
10/11/2015	<0.005			<0.005	<0.005	
10/12/2015			<0.005			
10/14/2015						<0.005
3/28/2016	<0.005					
3/31/2016		<0.005	<0.005			
4/4/2016				<0.005	<0.005	<0.005
5/25/2016	<0.005					
5/26/2016		<0.005	<0.005	<0.005	<0.005	
5/27/2016						<0.005
8/1/2016	<0.005					
8/3/2016			<0.005	<0.005		<0.005
8/4/2016					<0.005	
8/5/2016		<0.005				
9/26/2016	<0.005					
9/28/2016		<0.005	<0.005	<0.005	<0.005	
9/30/2016						<0.005
11/11/2016	<0.005					
11/22/2016		<0.005	<0.005	<0.005	<0.005	<0.005
1/30/2017	<0.005					
2/7/2017		<0.005	<0.005			
2/8/2017				<0.005	<0.005	
2/13/2017						<0.005
4/3/2017	<0.005					
4/10/2017		<0.005	<0.005	<0.005	<0.005	
4/11/2017						<0.005
6/12/2017	<0.005					
6/14/2017		<0.005	<0.005			<0.005
6/15/2017				9E-05 (J)	<0.005	
10/2/2017	<0.005					
10/4/2017		<0.005	<0.005	<0.005	<0.005	<0.005
3/16/2018	<0.005					
3/20/2018		<0.005				
3/21/2018			<0.005	<0.005		
3/22/2018					<0.005	<0.005
9/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2019	<0.005					
3/22/2019		<0.005	<0.005			
3/23/2019				<0.005	<0.005	<0.005
9/12/2019	<0.005					
9/17/2019		4.7E-05 (J)	0.00017 (J)	4.6E-05 (J)	8.2E-05 (J)	<0.005 (D)
3/11/2020	<0.005					
3/12/2020		<0.005	<0.005	5.2E-05 (J)	4.6E-05 (J)	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.005	<0.005				
8/23/2007					<0.005	<0.005
8/24/2007			<0.005	<0.005		
10/25/2007						<0.005
11/1/2007	<0.005	<0.005				
11/2/2007			<0.005	<0.005	<0.005	
11/17/2007			<0.005		<0.005	
11/18/2007				<0.005		
11/19/2007	<0.005	<0.005				<0.005
1/15/2008			<0.005	<0.005	<0.005	
1/23/2008						<0.005
1/31/2008	<0.005	<0.005				
3/5/2008	<0.005	<0.005	<0.005			
3/6/2008					<0.005	
3/10/2008				<0.005		
3/11/2008						<0.005
5/7/2008		<0.005	<0.005		<0.005	
5/12/2008	<0.005					<0.005
5/13/2008				<0.005		
12/2/2008			<0.005	<0.005	<0.005	
12/11/2008						<0.005
12/12/2008		<0.005				
12/13/2008	<0.005					
4/15/2009						<0.005
4/16/2009			<0.005			
4/28/2009	<0.005			<0.005	<0.005	
4/29/2009		<0.005				
10/9/2009						<0.005
10/19/2009					<0.005	
10/20/2009			<0.005	<0.005		
10/21/2009	<0.005	<0.005				
4/20/2010			<0.005			
4/27/2010				<0.005	<0.005	
4/28/2010	<0.005	<0.005				
5/4/2010						<0.005
9/29/2010			<0.005			
10/4/2010					<0.005	
10/5/2010	<0.005			<0.005		
10/6/2010		<0.005				
10/12/2010						<0.005
4/12/2011			<0.005			
4/18/2011					<0.005	
4/19/2011	<0.005			<0.005		
4/20/2011		<0.005				
4/28/2011						<0.005
10/4/2011			<0.005			
10/12/2011		<0.005		<0.005	<0.005	
10/18/2011	<0.005					
10/19/2011						<0.005
4/4/2012			<0.005			
4/23/2012					<0.005	
4/25/2012	<0.005	<0.005		<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.005
10/2/2012	<0.005	<0.005				
10/9/2012						<0.005
10/10/2012			<0.005	<0.005	<0.005	
4/2/2013	<0.005	<0.005				
4/11/2013						<0.005
4/15/2013			<0.005		<0.005	
4/16/2013				<0.005		
10/8/2013	<0.005	<0.005				
10/16/2013						<0.005
10/22/2013			<0.005	<0.005	<0.005	
4/1/2014	<0.005	<0.005				
4/21/2014			<0.005	<0.005	<0.005	
4/23/2014						<0.005
9/30/2014			<0.005	<0.005	<0.005	
10/1/2014	<0.005	<0.005				
10/3/2014						<0.005
3/31/2015		<0.005				<0.005
4/1/2015	<0.005					
4/3/2015			<0.005	<0.005	<0.005	
10/6/2015				<0.005		
10/7/2015			<0.005		<0.005	
10/12/2015						<0.005
10/14/2015		<0.005				
10/15/2015	<0.005					
3/28/2016						<0.005
4/4/2016	<0.005	<0.005				
4/5/2016			<0.005	<0.005	<0.005	
5/25/2016						<0.005
5/31/2016	<0.005			<0.005	<0.005	
6/1/2016		<0.005	<0.005			
8/1/2016						<0.005
8/4/2016	0.0001 (J)				<0.005	
8/9/2016			<0.005			
9/27/2016						<0.005
9/29/2016	0.0001 (J)				0.0008 (J)	
11/11/2016						<0.005
11/23/2016				<0.005	0.0011 (J)	
11/28/2016	<0.005		<0.005			
1/31/2017						<0.005
2/9/2017	0.0001 (J)		0.0002 (J)			
2/10/2017				<0.005	<0.005	
2/22/2017		0.0003 (J)				
4/3/2017						<0.005
4/11/2017		<0.005	<0.005	<0.005		
4/12/2017	<0.005				<0.005	
6/12/2017						<0.005
6/14/2017			<0.005			
6/15/2017				<0.005	0.0005 (J)	
6/16/2017	0.0002 (J)	<0.005				
7/12/2017		<0.005	<0.005	<0.005		
7/26/2017				<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.005				
8/10/2017		<0.005				
10/3/2017						<0.005
10/5/2017			<0.005			
10/6/2017		<0.005		<0.005	0.0004 (J)	
10/9/2017	0.0001 (J)					
3/19/2018						<0.005
3/21/2018	<0.005					
3/22/2018			<0.005			
3/23/2018		<0.005		<0.005	0.00028 (J)	
9/17/2018						<0.005
9/19/2018	<0.005		<0.005	<0.005	0.00029 (J)	
9/20/2018		<0.005				
3/20/2019						<0.005
3/22/2019		<0.005	<0.005	<0.005		
3/23/2019	<0.005					
3/25/2019					0.00047 (J)	
9/16/2019						<0.005
9/17/2019			<0.005	<0.005	0.00016 (J)	
9/18/2019	0.0002 (J)	4.8E-05 (X)				
3/13/2020	0.00013 (J)		<0.005	4.8E-05 (J)	0.00037 (J)	
3/16/2020						5.1E-05 (J)
3/17/2020		<0.005				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

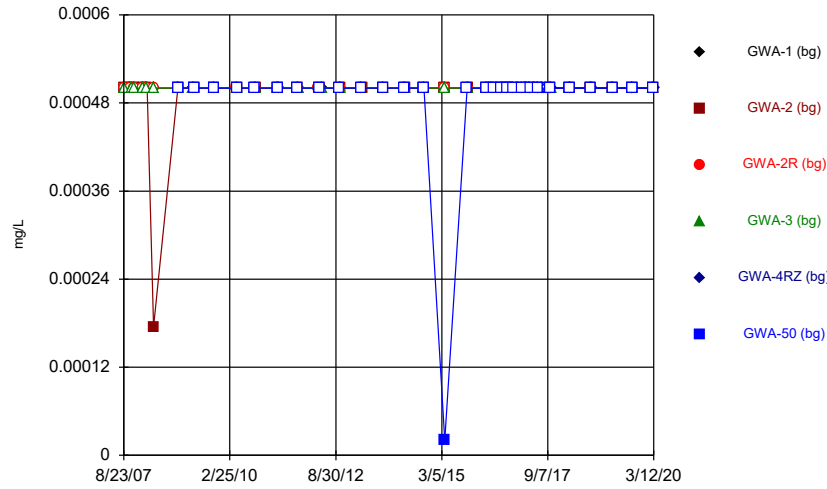
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.005					
8/23/2007						<0.005
10/25/2007	<0.005					
11/1/2007						<0.005
11/19/2007						<0.005
11/20/2007	<0.005					
1/15/2008						<0.005
1/23/2008	<0.005					
3/6/2008						<0.005
3/11/2008	<0.005					
5/13/2008						<0.005
5/14/2008	<0.005					
12/11/2008	<0.005					
12/12/2008						<0.005
4/16/2009						<0.005
4/23/2009	<0.005					
10/9/2009	<0.005					
10/13/2009						<0.005
4/21/2010						<0.005
5/4/2010	<0.005					
9/29/2010						<0.005
10/11/2010	<0.005					
4/13/2011						<0.005
4/26/2011	<0.005					
10/5/2011						<0.005
10/18/2011	<0.005			<0.005		
4/4/2012						0.0012
4/30/2012				<0.005		
5/2/2012	<0.005					
10/3/2012				<0.005		
10/8/2012	<0.005					<0.005
4/8/2013				<0.005		<0.005
4/10/2013	<0.005					
10/8/2013	<0.005					
10/9/2013				<0.005		<0.005
4/9/2014						<0.005
4/10/2014				<0.005		
4/14/2014	<0.005					
9/30/2014						<0.005
10/2/2014				<0.005		
10/3/2014	<0.005					
4/1/2015	<0.005					
4/2/2015						<0.005
4/3/2015				<0.005		
5/26/2015		<0.005			<0.005	
6/18/2015		<0.005 (D)			<0.005 (D)	
7/2/2015		<0.005			<0.005	
10/8/2015				<0.005	<0.005	
10/9/2015	<0.005	<0.005				
10/10/2015						<0.005 (D)
3/22/2016					<0.005	
3/29/2016	<0.005	<0.005				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

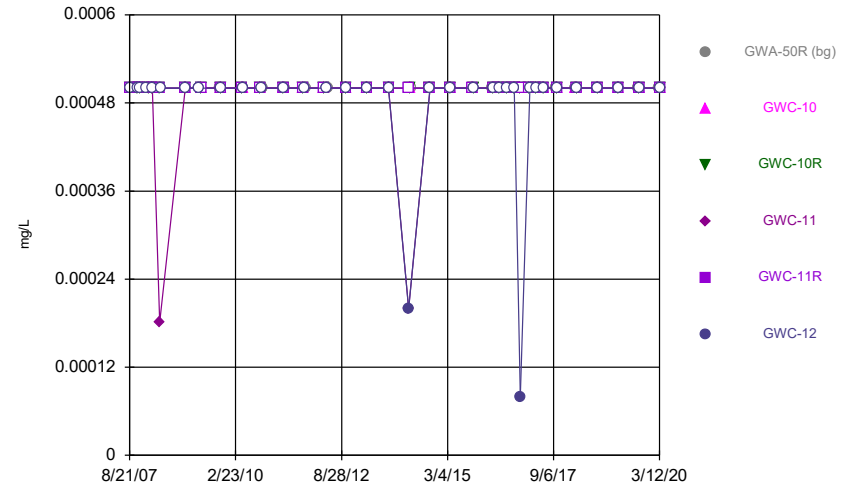
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.005		<0.005
5/24/2016	<0.005	<0.005		<0.005		
5/25/2016					<0.005	
5/26/2016						<0.005
5/31/2016			<0.005			
8/1/2016	<0.005	<0.005				
8/2/2016			0.0001 (J)	<0.005	0.0002 (J)	
8/5/2016						0.0001 (J)
9/26/2016	0.0003 (J)	<0.005			0.0001 (J)	
9/27/2016			0.0001 (J)	<0.005		
9/28/2016						0.0002 (J)
11/14/2016		<0.005				
11/18/2016	<0.005					
11/21/2016			0.0001 (J)		0.0001 (J)	0.0002 (J)
11/22/2016				<0.005		
2/1/2017	<0.005	<0.005	0.0001 (J)			
2/3/2017					0.0002 (J)	
2/6/2017				<0.005		0.0001 (J)
4/6/2017	7E-05 (J)	7E-05 (J)	0.0002 (J)	0.0001 (J)		0.0001 (J)
4/7/2017					0.0002 (J)	
6/13/2017	<0.005	8E-05 (J)	<0.005		0.0002 (J)	8E-05 (J)
6/14/2017				<0.005		
7/14/2017			<0.005			
10/3/2017	<0.005	<0.005	9E-05 (J)		0.0002 (J)	<0.005
10/4/2017				<0.005		
3/19/2018	<0.005					
3/20/2018		<0.005	<0.005		0.00042 (J)	<0.005
3/21/2018				<0.005		
9/17/2018	<0.005	<0.005				
9/18/2018			<0.005	<0.005	<0.005	<0.005 (D)
3/21/2019	<0.005	<0.005	<0.005			<0.005
3/27/2019				<0.005		
5/6/2019					0.00032 (J)	
9/13/2019			<0.005			
9/16/2019	0.0001 (J)	<0.005		<0.005 (D)	5.4E-05 (J)	6.1E-05 (J)
3/12/2020	0.0001 (J)	7E-05 (J)	8.2E-05 (J)	5.6E-05 (J)		0.00016 (J)
3/16/2020					0.00016 (J)	

Time Series



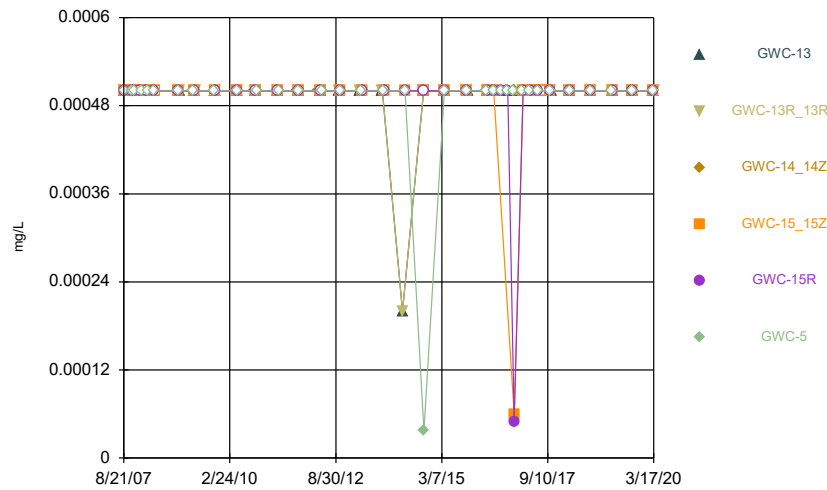
Constituent: Mercury Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



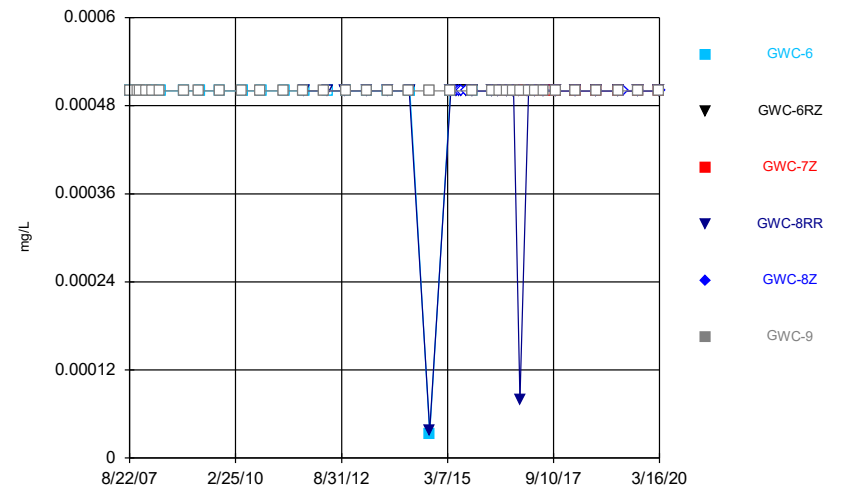
Constituent: Mercury Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Mercury Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Mercury Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.0005	<0.0005	<0.0005	<0.0005		
10/23/2007	<0.0005					
10/24/2007		<0.0005	<0.0005			
11/2/2007				<0.0005		
11/18/2007	<0.0005	<0.0005	<0.0005	<0.0005		
1/30/2008	<0.0005					
1/31/2008		<0.0005	<0.0005	<0.0005		
3/10/2008	<0.0005		<0.0005			
3/11/2008		<0.0005		<0.0005		
5/6/2008		0.000175				
5/13/2008	<0.0005		<0.0005			
5/14/2008				<0.0005		
12/4/2008		<0.0005	<0.0005			
12/5/2008	<0.0005			<0.0005		
12/12/2008						<0.0005
4/15/2009	<0.0005			<0.0005		
4/21/2009		<0.0005	<0.0005			
4/23/2009						<0.0005
10/6/2009						<0.0005
10/7/2009	<0.0005	<0.0005				
10/8/2009			<0.0005	<0.0005		
4/21/2010			<0.0005			
4/26/2010		<0.0005				
4/27/2010						<0.0005
4/28/2010				<0.0005		
5/3/2010	<0.0005					
9/28/2010			<0.0005			
9/30/2010						<0.0005
10/4/2010		<0.0005				
10/6/2010				<0.0005		
10/12/2010	<0.0005					
4/12/2011			<0.0005			
4/13/2011		<0.0005				
4/14/2011						<0.0005
4/21/2011				<0.0005		
4/27/2011	<0.0005					
10/4/2011			<0.0005			
10/5/2011		<0.0005				<0.0005
10/13/2011				<0.0005		
10/17/2011	<0.0005					
4/3/2012			<0.0005			
4/11/2012		<0.0005				<0.0005
5/1/2012				<0.0005		
5/2/2012	<0.0005					
10/2/2012						<0.0005
10/8/2012	<0.0005					
10/9/2012		<0.0005	<0.0005	<0.0005		
4/9/2013						<0.0005
4/11/2013			<0.0005	<0.0005		
4/12/2013	<0.0005					
4/15/2013		<0.0005				
10/15/2013		<0.0005				<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.0005		<0.0005	<0.0005		
4/10/2014			<0.0005			<0.0005
4/11/2014	<0.0005					
4/22/2014		<0.0005				
4/23/2014				<0.0005		
9/30/2014	<0.0005	<0.0005	<0.0005			
10/1/2014						<0.0005
10/4/2014				<0.0005		
3/30/2015	<0.0005	<0.0005	<0.0005			2.02E-05 (J)
3/31/2015				<0.0005		
10/11/2015						<0.0005
10/12/2015				<0.0005		
10/13/2015	<0.0005	<0.0005	<0.0005			
3/22/2016	<0.0005					
3/23/2016		<0.0005	<0.0005	<0.0005		
3/28/2016						<0.0005
5/19/2016	<0.0005		<0.0005			
5/20/2016		<0.0005				
5/23/2016				<0.0005		<0.0005
7/29/2016	<0.0005	<0.0005	<0.0005	<0.0005		
8/1/2016						<0.0005
9/22/2016			<0.0005	<0.0005		
9/23/2016	<0.0005	<0.0005				
9/26/2016						<0.0005
11/9/2016	<0.0005	<0.0005				
11/10/2016			<0.0005	<0.0005		<0.0005
1/30/2017	<0.0005					<0.0005
1/31/2017		<0.0005	<0.0005	<0.0005		
2/22/2017					<0.0005	
3/30/2017	<0.0005	<0.0005		<0.0005		
4/3/2017			<0.0005			
4/7/2017					<0.0005	<0.0005
6/9/2017	<0.0005		<0.0005			
6/12/2017		<0.0005		<0.0005		<0.0005
6/14/2017					<0.0005	
7/12/2017					<0.0005	
7/20/2017					<0.0005	
7/28/2017					<0.0005	
8/9/2017					<0.0005	
8/24/2017					<0.0005	
10/2/2017	<0.0005	<0.0005	<0.0005			<0.0005
10/3/2017					<0.0005	
10/4/2017				<0.0005		
3/16/2018	<0.0005		<0.0005			<0.0005
3/19/2018		<0.0005		<0.0005		
3/21/2018					<0.0005	
9/14/2018		<0.0005	<0.0005			
9/17/2018	<0.0005 (D)			<0.0005		<0.0005
9/18/2018					<0.0005	
3/19/2019			<0.0005			<0.0005
3/20/2019	<0.0005	<0.0005		<0.0005		
3/21/2019					<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	<0.0005	<0.0005 (D)			<0.0005	
9/13/2019			<0.0005	<0.0005		<0.0005
3/11/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/12/2020					<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2007		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/18/2007				<0.0005	<0.0005	
11/19/2007						<0.0005
11/20/2007		<0.0005	<0.0005			
1/16/2008						<0.0005
1/30/2008		<0.0005	<0.0005	<0.0005	<0.0005	
3/5/2008				<0.0005		<0.0005
3/6/2008		<0.0005	<0.0005		<0.0005	
5/7/2008				0.000181	<0.0005	
5/8/2008			<0.0005			
5/12/2008		<0.0005				
5/13/2008						<0.0005
12/12/2008	<0.0005					
12/13/2008		<0.0005				<0.0005
12/14/2008			<0.0005	<0.0005	<0.0005	
4/16/2009						<0.0005
4/23/2009	<0.0005					
4/29/2009		<0.0005	<0.0005	<0.0005	<0.0005	
10/6/2009	<0.0005					
10/20/2009		<0.0005				
10/21/2009			<0.0005			<0.0005
10/22/2009				<0.0005	<0.0005	
4/21/2010			<0.0005	<0.0005	<0.0005	
4/26/2010		<0.0005				
4/27/2010						<0.0005
5/3/2010	<0.0005					
9/28/2010			<0.0005	<0.0005		
9/29/2010		<0.0005			<0.0005	
10/5/2010						<0.0005
10/11/2010	<0.0005					
4/12/2011			<0.0005	<0.0005		
4/13/2011		<0.0005			<0.0005	
4/19/2011						<0.0005
4/27/2011	<0.0005					
10/4/2011			<0.0005	<0.0005	<0.0005	
10/5/2011		<0.0005				
10/12/2011						<0.0005
10/19/2011	<0.0005					
4/3/2012			<0.0005	<0.0005		
4/4/2012		<0.0005			<0.0005	
4/24/2012						<0.0005
5/1/2012	<0.0005					
10/2/2012	<0.0005					<0.0005
10/3/2012		<0.0005		<0.0005	<0.0005	
10/8/2012			<0.0005			
4/2/2013						<0.0005
4/3/2013		<0.0005	<0.0005	<0.0005	<0.0005	
4/10/2013	<0.0005					
10/9/2013				<0.0005	<0.0005	<0.0005
10/15/2013		<0.0005	<0.0005			
10/16/2013	<0.0005					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						0.0002 (J)
4/2/2014				0.0002 (J)	<0.0005	
4/9/2014		<0.0005	<0.0005			
4/22/2014	<0.0005					
10/1/2014	<0.0005					
10/2/2014		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/30/2015	<0.0005					
4/1/2015				<0.0005	<0.0005	<0.0005
4/2/2015		<0.0005	<0.0005			
10/10/2015		<0.0005				
10/11/2015	<0.0005			<0.0005	<0.0005	
10/12/2015			<0.0005			
10/14/2015						<0.0005
3/28/2016	<0.0005					
3/31/2016		<0.0005	<0.0005			
4/4/2016				<0.0005	<0.0005	<0.0005
5/25/2016	<0.0005					
5/26/2016		<0.0005	<0.0005	<0.0005	<0.0005	
5/27/2016						<0.0005
8/1/2016	<0.0005					
8/3/2016			<0.0005	<0.0005		<0.0005
8/4/2016					<0.0005	
8/5/2016		<0.0005				
9/26/2016	<0.0005					
9/28/2016		<0.0005	<0.0005	<0.0005	<0.0005	
9/30/2016						<0.0005
11/11/2016	<0.0005					
11/22/2016		<0.0005	<0.0005	<0.0005	<0.0005	8E-05 (J)
1/30/2017	<0.0005					
2/7/2017		<0.0005	<0.0005			
2/8/2017				<0.0005	<0.0005	
2/13/2017						<0.0005
4/3/2017	<0.0005					
4/10/2017		<0.0005	<0.0005	<0.0005	<0.0005	
4/11/2017						<0.0005
6/12/2017	<0.0005					
6/14/2017		<0.0005	<0.0005			<0.0005
6/15/2017				<0.0005	<0.0005	
10/2/2017	<0.0005					
10/4/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/16/2018	<0.0005					
3/20/2018		<0.0005				
3/21/2018			<0.0005	<0.0005		
3/22/2018					<0.0005	<0.0005
9/18/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2019	<0.0005					
3/22/2019		<0.0005	<0.0005			
3/23/2019				<0.0005	<0.0005	<0.0005
9/12/2019	<0.0005					
9/17/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005 (D)
3/11/2020	<0.0005					
3/12/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.0005	<0.0005				
8/23/2007					<0.0005	<0.0005
8/24/2007			<0.0005	<0.0005		
10/25/2007						<0.0005
11/1/2007	<0.0005	<0.0005				
11/2/2007			<0.0005	<0.0005	<0.0005	
11/17/2007			<0.0005		<0.0005	
11/18/2007				<0.0005		
11/19/2007	<0.0005	<0.0005				<0.0005
1/15/2008			<0.0005	<0.0005	<0.0005	
1/23/2008						<0.0005
1/31/2008	<0.0005	<0.0005				
3/5/2008	<0.0005	<0.0005	<0.0005			
3/6/2008					<0.0005	
3/10/2008				<0.0005		
3/11/2008						<0.0005
5/7/2008		<0.0005	<0.0005		<0.0005	
5/12/2008	<0.0005					<0.0005
5/13/2008				<0.0005		
12/2/2008			<0.0005	<0.0005	<0.0005	
12/11/2008						<0.0005
12/12/2008		<0.0005				
12/13/2008	<0.0005					
4/15/2009						<0.0005
4/16/2009			<0.0005			
4/28/2009	<0.0005			<0.0005	<0.0005	
4/29/2009		<0.0005				
10/9/2009						<0.0005
10/19/2009					<0.0005	
10/20/2009			<0.0005	<0.0005		
10/21/2009	<0.0005	<0.0005				
4/20/2010			<0.0005			
4/27/2010				<0.0005	<0.0005	
4/28/2010	<0.0005	<0.0005				
5/4/2010						<0.0005
9/29/2010			<0.0005			
10/4/2010					<0.0005	
10/5/2010	<0.0005			<0.0005		
10/6/2010		<0.0005				
10/12/2010						<0.0005
4/12/2011			<0.0005			
4/18/2011					<0.0005	
4/19/2011	<0.0005			<0.0005		
4/20/2011		<0.0005				
4/28/2011						<0.0005
10/4/2011			<0.0005			
10/12/2011		<0.0005		<0.0005	<0.0005	
10/18/2011	<0.0005					
10/19/2011						<0.0005
4/4/2012			<0.0005			
4/23/2012					<0.0005	
4/25/2012	<0.0005	<0.0005		<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Date	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.0005
10/2/2012	<0.0005	<0.0005				
10/9/2012						<0.0005
10/10/2012			<0.0005	<0.0005	<0.0005	
4/2/2013	<0.0005	<0.0005				
4/11/2013						<0.0005
4/15/2013			<0.0005		<0.0005	
4/16/2013				<0.0005		
10/8/2013	<0.0005	<0.0005				
10/16/2013						<0.0005
10/22/2013			<0.0005	<0.0005	<0.0005	
4/1/2014	0.0002 (J)	0.0002 (J)				
4/21/2014			<0.0005	<0.0005	<0.0005	
4/23/2014						<0.0005
9/30/2014			<0.0005	<0.0005	<0.0005	
10/1/2014	<0.0005	<0.0005				
10/3/2014						3.71E-05 (J)
3/31/2015		<0.0005				<0.0005
4/1/2015	<0.0005					
4/3/2015			<0.0005	<0.0005	<0.0005	
10/6/2015				<0.0005		
10/7/2015			<0.0005		<0.0005	
10/12/2015						<0.0005
10/14/2015		<0.0005				
10/15/2015	<0.0005					
3/28/2016						<0.0005
4/4/2016	<0.0005	<0.0005				
4/5/2016			<0.0005	<0.0005	<0.0005	
5/25/2016						<0.0005
5/31/2016	<0.0005			<0.0005	<0.0005	
6/1/2016		<0.0005	<0.0005			
8/1/2016						<0.0005
8/4/2016	<0.0005				<0.0005	
8/9/2016			<0.0005			
9/27/2016						<0.0005
9/29/2016	<0.0005				<0.0005	
11/11/2016						<0.0005
11/23/2016				6E-05 (J)	5E-05 (J)	
11/28/2016	<0.0005		<0.0005			
1/31/2017						<0.0005
2/9/2017	<0.0005		<0.0005			
2/10/2017				<0.0005	<0.0005	
2/22/2017		<0.0005				
4/3/2017						<0.0005
4/11/2017		<0.0005	<0.0005	<0.0005		
4/12/2017	<0.0005				<0.0005	
6/12/2017						<0.0005
6/14/2017			<0.0005			
6/15/2017				<0.0005	<0.0005	
6/16/2017	<0.0005	<0.0005				
7/12/2017		<0.0005	<0.0005	<0.0005		
7/26/2017				<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.0005				
8/10/2017		<0.0005				
10/3/2017						<0.0005
10/5/2017			<0.0005			
10/6/2017		<0.0005		<0.0005	<0.0005	
10/9/2017	<0.0005					
3/19/2018						<0.0005
3/21/2018	<0.0005					
3/22/2018			<0.0005			
3/23/2018		<0.0005		<0.0005	<0.0005	
9/17/2018						<0.0005
9/19/2018	<0.0005		<0.0005	<0.0005	<0.0005	
9/20/2018		<0.0005				
3/20/2019						<0.0005
3/22/2019		<0.0005	<0.0005	<0.0005		
3/23/2019	<0.0005					
3/25/2019					<0.0005	
9/16/2019						<0.0005
9/17/2019			<0.0005	<0.0005	<0.0005	
9/18/2019	<0.0005	<0.0005				
3/13/2020	<0.0005		<0.0005	<0.0005	<0.0005	
3/16/2020						<0.0005
3/17/2020		<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

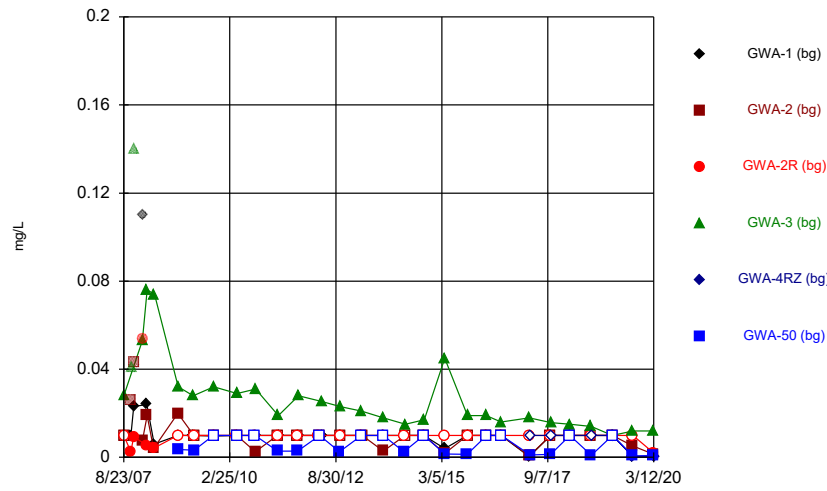
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.0005					
8/23/2007						<0.0005
10/25/2007	<0.0005					
11/1/2007						<0.0005
11/19/2007						<0.0005
11/20/2007	<0.0005					
1/15/2008						<0.0005
1/23/2008	<0.0005					
3/6/2008						<0.0005
3/11/2008	<0.0005					
5/13/2008						<0.0005
5/14/2008	<0.0005					
12/11/2008	<0.0005					
12/12/2008						<0.0005
4/16/2009						<0.0005
4/23/2009	<0.0005					
10/9/2009	<0.0005					
10/13/2009						<0.0005
4/21/2010						<0.0005
5/4/2010	<0.0005					
9/29/2010						<0.0005
10/11/2010	<0.0005					
4/13/2011						<0.0005
4/26/2011	<0.0005					
10/5/2011						<0.0005
10/18/2011	<0.0005			<0.0005		
4/4/2012						<0.0005
4/30/2012				<0.0005		
5/2/2012	<0.0005					
10/3/2012				<0.0005		
10/8/2012	<0.0005					<0.0005
4/8/2013				<0.0005		<0.0005
4/10/2013	<0.0005					
10/8/2013	<0.0005					
10/9/2013				<0.0005		<0.0005
4/9/2014						<0.0005
4/10/2014				<0.0005		
4/14/2014	<0.0005					
9/30/2014						<0.0005
10/2/2014				3.83E-05 (J)		
10/3/2014	3.29E-05 (J)					
4/1/2015	<0.0005					
4/2/2015						<0.0005
4/3/2015				<0.0005		
5/26/2015		<0.0005			<0.0005	
6/18/2015		<0.0005 (D)			<0.0005 (D)	
7/2/2015		<0.0005			<0.0005	
8/13/2015		<0.0005 (D)				
8/14/2015					<0.0005 (D)	
10/8/2015				<0.0005	<0.0005	
10/9/2015	<0.0005	<0.0005				
10/10/2015						<0.0005 (D)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

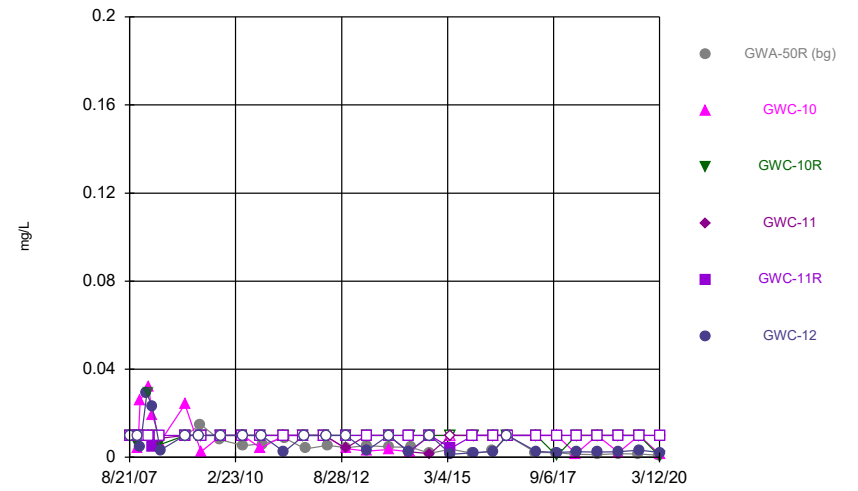
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					<0.0005	
3/29/2016	<0.0005	<0.0005				
3/30/2016				<0.0005		<0.0005
5/24/2016	<0.0005	<0.0005		<0.0005		
5/25/2016					<0.0005	
5/26/2016						<0.0005
5/31/2016			<0.0005			
8/1/2016	<0.0005	<0.0005				
8/2/2016			<0.0005	<0.0005	<0.0005	
8/5/2016						<0.0005
9/26/2016	<0.0005	<0.0005			<0.0005	
9/27/2016			<0.0005	<0.0005		
9/28/2016						<0.0005
11/14/2016		<0.0005				
11/18/2016	<0.0005					
11/21/2016			<0.0005		<0.0005	<0.0005
11/22/2016				8E-05 (J)		
2/1/2017	<0.0005	<0.0005	<0.0005			
2/3/2017					<0.0005	
2/6/2017				<0.0005		<0.0005
4/6/2017	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
4/7/2017					<0.0005	
6/13/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
6/14/2017				<0.0005		
7/14/2017			<0.0005			
10/3/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
10/4/2017				<0.0005		
3/19/2018	<0.0005					
3/20/2018		<0.0005	<0.0005		<0.0005	<0.0005
3/21/2018				<0.0005		
9/17/2018	<0.0005	<0.0005				
9/18/2018			<0.0005	<0.0005	<0.0005	<0.0005 (D)
3/21/2019	<0.0005	<0.0005	<0.0005			<0.0005
3/27/2019				<0.0005		
5/6/2019					<0.0005	
9/13/2019			<0.0005			
9/16/2019	<0.0005	<0.0005		<0.0005 (D)	<0.0005	<0.0005
3/12/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/16/2020					<0.0005	

Time Series



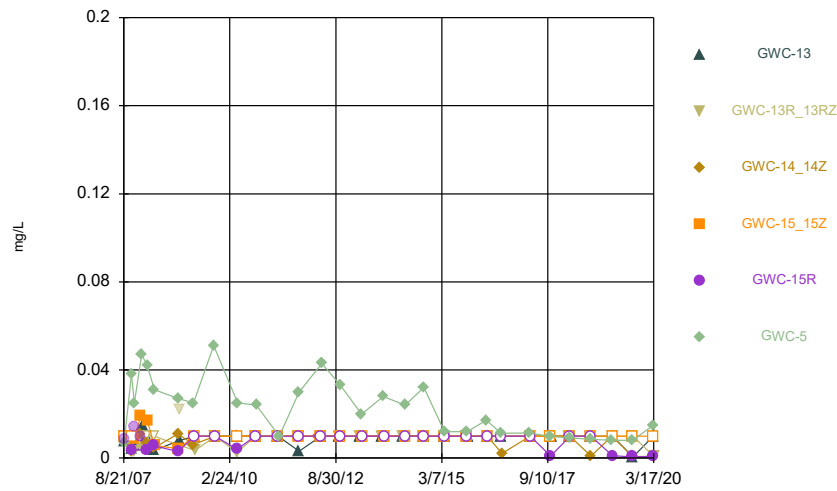
Constituent: Nickel Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



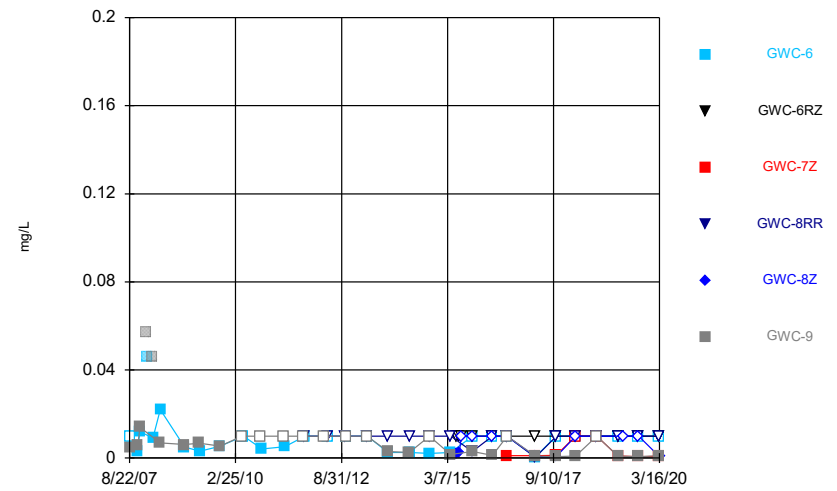
Constituent: Nickel Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Nickel Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Nickel Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	<0.01	<0.01	0.028		
10/23/2007	0.0096					
10/24/2007		0.026 (o)	0.0025			
11/2/2007				0.041 (o)		
11/18/2007	0.023	0.043 (o)	0.0093	0.14 (o)		
1/30/2008	0.11 (o)					
1/31/2008		0.0075	0.054 (o)	0.053		
3/10/2008	0.024		0.0054			
3/11/2008		0.019		0.076		
5/6/2008		0.004				
5/13/2008	0.006		0.0043			
5/14/2008				0.074		
12/4/2008		0.02	<0.01			
12/5/2008	<0.01			0.032		
12/12/2008						0.0035
4/15/2009	<0.01			0.028		
4/21/2009		<0.01	<0.01			
4/23/2009						0.0032
10/6/2009						<0.01
10/7/2009	0.0096	<0.01				
10/8/2009			<0.01	0.032		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				0.029		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						<0.01
10/4/2010		0.0025				
10/6/2010				0.031		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						0.0028
4/21/2011				0.019		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				0.0028
10/13/2011				0.028		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				0.0253		
5/2/2012	<0.01					
10/2/2012						0.0026
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	0.023		
4/9/2013						<0.01
4/11/2013			<0.01	0.021		
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		0.0028				<0.01

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.01		<0.01	0.018		
4/10/2014			<0.01			0.0025 (J)
4/11/2014	<0.01					
4/22/2014		<0.01				
4/23/2014				0.015		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				0.017		
3/30/2015	0.004	0.0018 (J)	<0.01			0.0015 (J)
3/31/2015				0.045		
10/11/2015						0.0013 (J)
10/12/2015				0.019		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01	0.019		
3/28/2016						<0.01
7/29/2016	<0.01	<0.01	<0.01	0.0161		
8/1/2016						<0.01
3/30/2017	0.0004 (J)	0.0006 (J)		0.018		
4/3/2017			<0.01			
4/7/2017					<0.01	0.0011 (J)
10/2/2017	<0.01	<0.01	<0.01			0.0013 (J)
10/3/2017					<0.01	
10/4/2017				0.0158		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		<0.01		0.015		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			0.014		0.00096 (J)
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		0.01		
3/21/2019					<0.01	
9/12/2019	0.00038 (J)	0.00518 (D)			0.00032 (J)	
9/13/2019			<0.01	0.012		0.00063 (J)
3/11/2020	0.00068 (J)	0.0014 (J)	0.002 (J)	0.012		0.00084 (J)
3/12/2020					0.00034 (J)	

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2007		0.0042	0.006	<0.01	<0.01	<0.01
11/18/2007				<0.01	<0.01	
11/19/2007						0.0047
11/20/2007		0.026	<0.01			
1/16/2008						0.029
1/30/2008		0.032	0.029 (C)	<0.01	<0.01	
3/5/2008				<0.01		0.023
3/6/2008		0.019	<0.01		0.0046	
5/7/2008				0.0087	<0.01	
5/8/2008			0.0057			
5/12/2008		0.0072				
5/13/2008						0.0032
12/12/2008	0.0096					
12/13/2008		0.024				<0.01
12/14/2008			<0.01	<0.01	<0.01	
4/16/2009						<0.01
4/23/2009	0.015					
4/29/2009		0.0026	<0.01	<0.01	<0.01	
10/6/2009	0.008					
10/20/2009		<0.01				
10/21/2009			<0.01			<0.01
10/22/2009				<0.01	<0.01	
4/21/2010			<0.01	<0.01	<0.01	
4/26/2010		<0.01				
4/27/2010						<0.01
5/3/2010	0.0053					
9/28/2010			<0.01	<0.01		
9/29/2010		0.0042			<0.01	
10/5/2010						<0.01
10/11/2010	0.0061					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			<0.01	
4/19/2011						0.0025
4/27/2011	0.0087					
10/4/2011			<0.01	<0.01	<0.01	
10/5/2011		<0.01				
10/12/2011						<0.01
10/19/2011	0.0039					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	0.0054					
10/2/2012	0.0044					<0.01
10/3/2012		0.004		0.0042	<0.01	
10/8/2012			<0.01			
4/2/2013						0.003
4/3/2013		0.0028	<0.01	<0.01	<0.01	
4/10/2013	0.0053					
10/9/2013				<0.01	<0.01	<0.01
10/15/2013		0.0036	<0.01			
10/16/2013	0.0047					

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						0.0025 (J)
4/2/2014				0.0025 (J)	<0.01	
4/9/2014		0.0025 (J)	<0.01			
4/22/2014	0.0045					
10/1/2014	0.0018 (J)					
10/2/2014		<0.01	<0.01	0.0016 (J)	<0.01	<0.01
3/30/2015	0.0037					
4/1/2015				<0.01	0.0041	0.0014 (J)
4/2/2015		<0.01	<0.01			
10/10/2015		<0.01				
10/11/2015	0.0018 (J)			<0.01	<0.01	
10/12/2015			<0.01			
10/14/2015						0.0021 (J)
3/28/2016	0.0028 (J)					
3/31/2016		<0.01	<0.01			
4/4/2016				<0.01	<0.01	0.00264 (J)
8/1/2016	<0.01					
8/3/2016			<0.01	<0.01		<0.01
8/4/2016					<0.01	
8/5/2016		<0.01				
4/3/2017	0.0022 (J)					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						0.0027 (J)
10/2/2017	0.0021 (J)					
10/4/2017		<0.01	0.0006 (J)	<0.01	<0.01	0.0022 (J)
3/16/2018	0.0014 (J)					
3/20/2018		0.0016 (J)				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	0.0025 (J)
9/18/2018	0.0012 (J)	<0.01	<0.01	<0.01	<0.01	0.0024 (J)
3/19/2019	0.0016 (J)					
3/22/2019		0.0022 (J)	<0.01			
3/23/2019				<0.01	<0.01	0.0026 (J)
9/12/2019	0.0015 (J)					
9/17/2019		<0.01	<0.01	<0.01	<0.01	0.0033 (JD)
3/11/2020	0.001 (J)					
3/12/2020		0.0015 (J)	0.00043 (J)	<0.01	<0.01	0.0022 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	0.0076	<0.01				
8/23/2007					0.0089 (O)	0.0069
8/24/2007			<0.01	<0.01		
10/25/2007						0.038
11/1/2007	0.0043	0.0033				
11/2/2007			0.0029	<0.01	0.0036	
11/17/2007			0.0086		0.014 (O)	
11/18/2007				0.0088 (J)		
11/19/2007	0.0061	0.0029				0.025
1/15/2008			0.011	0.019	0.0096 (O)	
1/23/2008						0.047
1/31/2008	0.015	0.0039				
3/5/2008	<0.01	<0.01	0.0072			
3/6/2008					0.0038	
3/10/2008				0.017		
3/11/2008						0.042
5/7/2008		<0.01	0.0045		0.0056	
5/12/2008	0.0035					0.031
5/13/2008				0.0058		
12/2/2008			0.011	0.0043	0.003	
12/11/2008						0.027
12/12/2008		0.022 (O)				
12/13/2008	0.0079					
4/15/2009						0.025
4/16/2009			0.0061			
4/28/2009	<0.01			<0.01	<0.01	
4/29/2009		0.0034				
10/9/2009						0.051
10/19/2009					<0.01	
10/20/2009			0.01	<0.01		
10/21/2009	<0.01	<0.01				
4/20/2010			<0.01			
4/27/2010				<0.01	0.004	
4/28/2010	<0.01	0.0026				
5/4/2010						0.025
9/29/2010			<0.01			
10/4/2010					<0.01	
10/5/2010	<0.01			<0.01		
10/6/2010		<0.01				
10/12/2010						0.024
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	<0.01			<0.01		
4/20/2011		<0.01				
4/28/2011						0.01
10/4/2011			<0.01			
10/12/2011		<0.01		<0.01	<0.01	
10/18/2011	0.0031					
10/19/2011						0.03
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	<0.01	<0.01		<0.01		

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						0.0429
10/2/2012	<0.01	<0.01				
10/9/2012						0.033
10/10/2012			<0.01	<0.01	<0.01	
4/2/2013	<0.01	<0.01				
4/11/2013						0.02
4/15/2013			<0.01		<0.01	
4/16/2013				<0.01		
10/8/2013	<0.01	<0.01				
10/16/2013						0.028
10/22/2013			<0.01	<0.01	<0.01	
4/1/2014	<0.01	<0.01				
4/21/2014			<0.01	<0.01	<0.01	
4/23/2014						0.024
9/30/2014			<0.01	<0.01	<0.01	
10/1/2014	<0.01	<0.01				
10/3/2014						0.032
3/31/2015		<0.01				0.012
4/1/2015	<0.01					
4/3/2015			<0.01	<0.01	<0.01	
10/6/2015				<0.01		
10/7/2015			<0.01		<0.01	
10/12/2015						0.012
10/14/2015		<0.01				
10/15/2015	<0.01					
3/28/2016						0.0172
4/4/2016	<0.01	<0.01				
4/5/2016			<0.01	<0.01	<0.01	
8/1/2016						0.0113
8/4/2016	<0.01				<0.01	
8/9/2016			0.0021 (J)			
4/3/2017						0.0114
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	<0.01				<0.01	
10/3/2017						0.0098 (J)
10/5/2017			<0.01			
10/6/2017		<0.01		<0.01	0.001 (J)	
10/9/2017	<0.01					
3/19/2018						0.0092 (J)
3/21/2018	<0.01					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						0.0085 (J)
9/19/2018	<0.01		0.00096 (J)	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						0.008 (J)
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	<0.01					
3/25/2019					0.0011 (J)	
9/16/2019						0.008 (J)
9/17/2019			0.0007 (X)	<0.01	0.00057 (J)	
9/18/2019	0.00046 (J)	<0.01				

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	<0.01		0.00078 (J)	<0.01	0.00072 (J)	
3/16/2020						0.015
3/17/2020		0.00082 (J)				

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

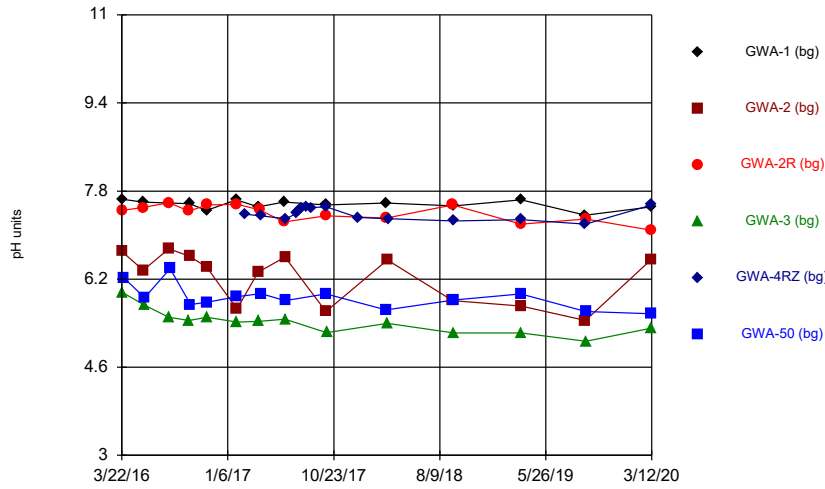
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						0.0046
10/25/2007	0.0028					
11/1/2007						0.0057
11/19/2007						0.014 (J)
11/20/2007	0.012					
1/15/2008						0.057 (o)
1/23/2008	0.046 (o)					
3/6/2008						0.046 (o)
3/11/2008	0.0091					
5/13/2008						0.0069
5/14/2008	0.022					
12/11/2008	0.005					
12/12/2008						0.0061
4/16/2009						0.0067 (J)
4/23/2009	0.0031					
10/9/2009	0.0053					
10/13/2009						0.0054
4/21/2010						<0.01
5/4/2010	<0.01					
9/29/2010						<0.01
10/11/2010	0.0042					
4/13/2011						<0.01
4/26/2011	0.0051					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	<0.01					
10/8/2013	0.0025					
10/9/2013				<0.01		0.0029
4/9/2014						0.0025 (J)
4/10/2014				<0.01		
4/14/2014	0.0025 (J)					
9/30/2014						<0.01
10/2/2014				<0.01		
10/3/2014	0.0021 (J)					
4/1/2015	0.0026					
4/2/2015						0.0016 (J)
4/3/2015				<0.01		
5/26/2015		<0.01			0.002 (J)	
6/18/2015		<0.01 (D)			0.0025 (D)	
7/2/2015		<0.01			<0.01	
10/8/2015				0.003	<0.01	
10/9/2015	<0.01	<0.01				
10/10/2015						0.00295 (D)
3/22/2016					<0.01	
3/29/2016	<0.01	<0.01				

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

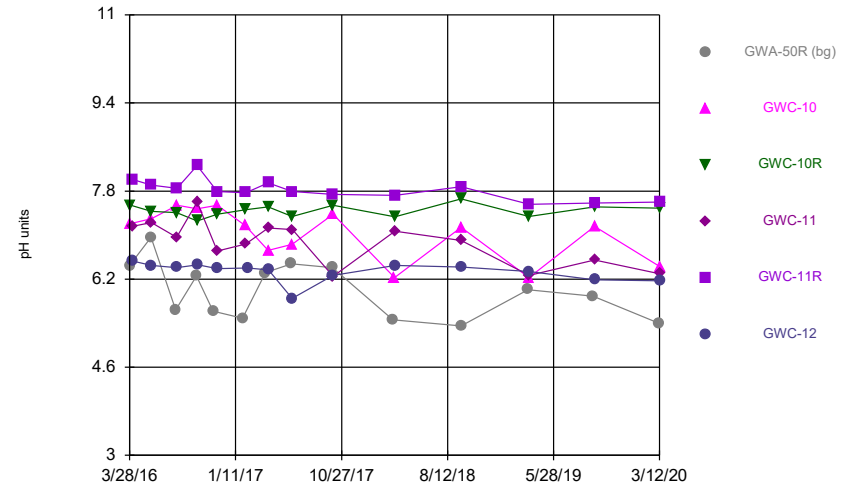
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.01		0.00116 (J)
8/1/2016	<0.01	<0.01				
8/2/2016			0.0011 (J)	<0.01	<0.01	
8/5/2016						<0.01
4/6/2017	0.0005 (J)	<0.01	0.0011 (J)	0.0003 (J)		0.001 (J)
4/7/2017					0.0007 (J)	
10/3/2017	<0.01	<0.01	0.0012 (J)		0.0006 (J)	0.0007 (J)
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	<0.01		<0.01	0.00097 (J)
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	0.00099 (J)			0.001 (J)
3/27/2019				<0.01		
5/6/2019					<0.01	
9/13/2019			0.00061 (J)			
9/16/2019	<0.01	<0.01		<0.01 (D)	<0.01	0.00062 (J)
3/12/2020	<0.01	<0.01	0.00078 (J)	<0.01		0.0011 (J)
3/16/2020					0.0006 (J)	

Time Series



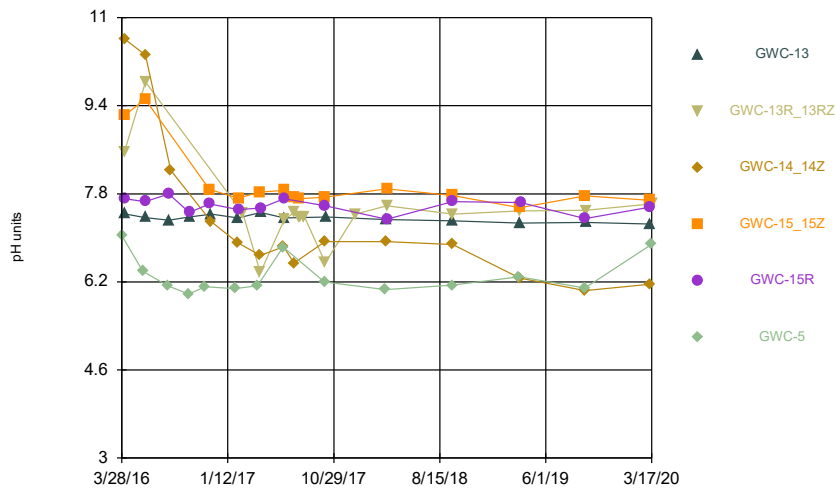
Constituent: pH Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



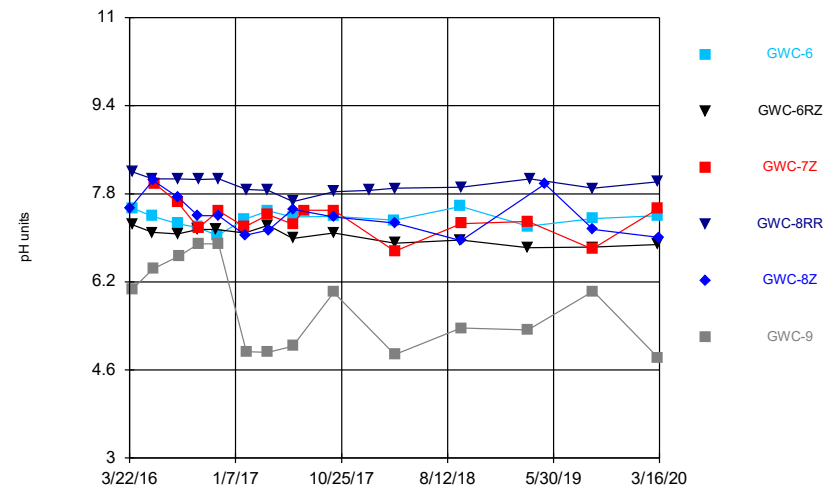
Constituent: pH Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: pH Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: pH Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: pH (pH units) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	7.65					
3/23/2016		6.7	7.45	5.96		
3/28/2016						6.22
5/19/2016	7.6		7.5			
5/20/2016		6.36				
5/23/2016				5.73		5.86
7/29/2016	7.58	6.75	7.59	5.51		
8/1/2016						6.39
9/22/2016			7.44	5.45		
9/23/2016	7.57	6.62				
9/26/2016						5.74
11/9/2016	7.45	6.42				
11/10/2016			7.55	5.51		5.78
1/30/2017	7.64					5.88
1/31/2017		5.66	7.56	5.42		
2/22/2017					7.38	
3/30/2017	7.51	6.33		5.43		
4/3/2017			7.46			
4/7/2017					7.35	5.94
6/9/2017	7.6		7.24			
6/12/2017		6.6		5.47		5.81
6/14/2017					7.3	
7/12/2017					7.39	
7/20/2017					7.44	
7/28/2017					7.5	
8/9/2017					7.52	
8/24/2017					7.5	
10/2/2017	7.55	5.61	7.35			5.93
10/3/2017					7.51	
10/4/2017				5.23		
12/28/2017					7.32 (Y)	
3/16/2018	7.58		7.31			5.64
3/19/2018		6.55		5.4		
3/21/2018					7.3	
9/14/2018		5.81	7.55			
9/17/2018	7.53 (D)			5.22		5.82
9/18/2018					7.26	
3/19/2019			7.2			5.93
3/20/2019	7.64	5.71		5.22		
3/21/2019					7.28	
9/12/2019	7.36	5.45 (D)			7.2	
9/13/2019			7.29	5.07		5.61
3/11/2020	7.51	6.56	7.09	5.31		5.57
3/12/2020					7.55	

Time Series

Constituent: pH (pH units) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	6.45 (D)					
3/31/2016		7.21	7.54			
4/4/2016				7.16	8.01	6.53 (D)
5/25/2016	6.96					
5/26/2016		7.3	7.43	7.23	7.91	
5/27/2016						6.45
8/1/2016	5.64					
8/3/2016			7.41	6.96		6.41
8/4/2016					7.85	
8/5/2016		7.54				
9/26/2016	6.26					
9/28/2016		7.48	7.26	7.6	8.26	
9/30/2016						6.46
11/11/2016	5.62					
11/22/2016		7.54	7.38	6.71	7.79	6.39
1/30/2017	5.49					
2/7/2017		7.17	7.46			
2/8/2017				6.84	7.77	
2/13/2017						6.4
4/3/2017	6.32					
4/10/2017		6.72	7.51	7.13	7.95	
4/11/2017						6.37
6/12/2017	6.48					
6/14/2017		6.83	7.34			5.85
6/15/2017				7.1	7.79	
10/2/2017	6.41					
10/4/2017		7.38	7.54	6.25	7.74	6.27
3/16/2018	5.46					
3/20/2018		6.23				
3/21/2018			7.33	7.07		
3/22/2018					7.72	6.45
9/18/2018	5.35	7.14	7.66	6.9	7.88	6.42
3/19/2019	6.01					
3/22/2019		6.23	7.34			
3/23/2019				6.27	7.56	6.34
9/12/2019	5.89					
9/17/2019		7.16	7.51	6.55	7.58	6.19 (D)
3/11/2020	5.4					
3/12/2020		6.43	7.49	6.3	7.6	6.17

Time Series

Constituent: pH (pH units) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						7.04
4/4/2016	7.44 (D)	8.56				
4/5/2016			10.61	9.23	7.71	
5/25/2016						6.39
5/31/2016	7.37			9.52	7.66	
6/1/2016		9.83	10.32			
8/1/2016						6.13
8/4/2016	7.32				7.8	
8/9/2016			8.23			
9/27/2016						5.98
9/29/2016	7.38				7.46	
11/11/2016						6.11
11/23/2016				7.88	7.62	
11/28/2016	7.43		7.29			
1/31/2017						6.08
2/9/2017	7.36		6.91			
2/10/2017				7.72	7.51	
2/22/2017		7.45				
4/3/2017						6.13
4/11/2017		6.37	6.68	7.83		
4/12/2017	7.46				7.54	
6/12/2017						6.83
6/14/2017			6.84			
6/15/2017				7.86	7.71	
6/16/2017	7.36	7.33				
7/12/2017		7.46	6.54	7.73		
7/26/2017				7.71		
7/27/2017		7.37				
7/28/2017		7.37				
8/9/2017		7.38				
8/10/2017		7.38				
10/3/2017						6.2
10/5/2017			6.93			
10/6/2017		6.55		7.74	7.58	
10/9/2017	7.38					
12/28/2017		7.43 (Y)				
3/19/2018						6.06
3/21/2018	7.33					
3/22/2018			6.93			
3/23/2018		7.58		7.89	7.34	
9/17/2018						6.14
9/19/2018	7.31		6.88	7.77	7.66	
9/20/2018		7.43				
3/20/2019						6.29
3/22/2019		7.49	6.27	7.55		
3/23/2019	7.27					
3/25/2019					7.64	
9/16/2019						6.09
9/17/2019			6.04	7.76	7.35	
9/18/2019	7.28	7.5				
3/13/2020	7.25		6.16	7.68	7.56	
3/16/2020						6.88

Time Series

Constituent: pH (pH units) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

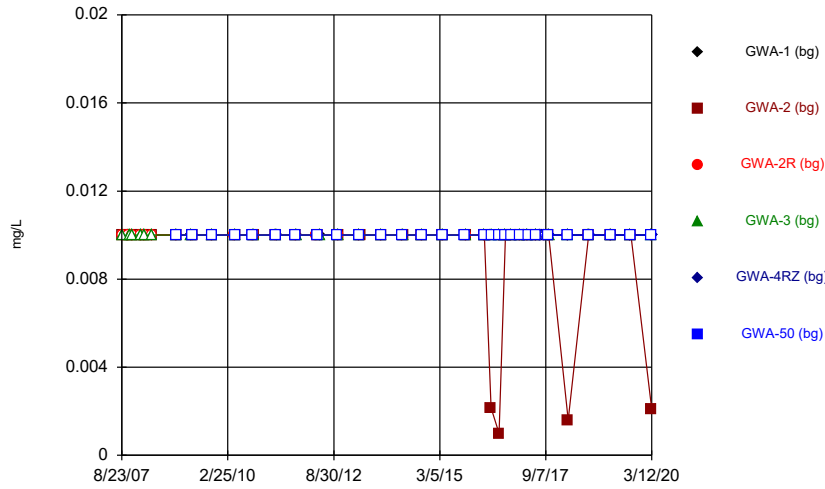
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/17/2020		7.62				

Time Series

Constituent: pH (pH units) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

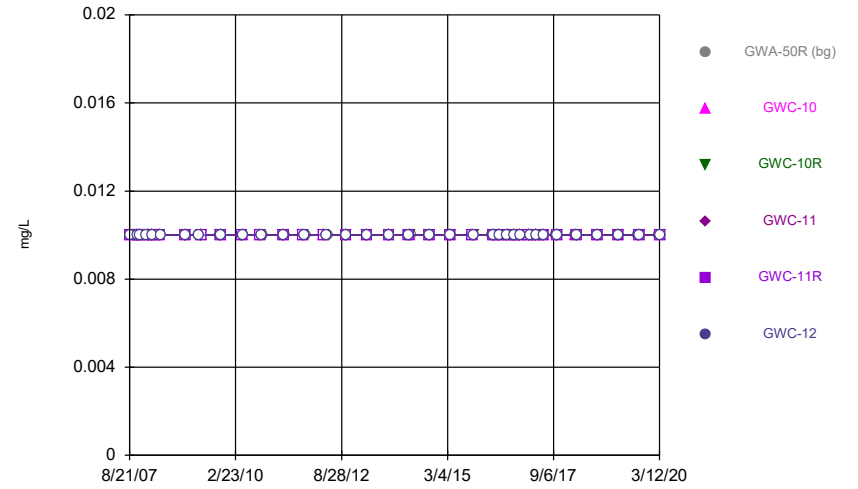
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					7.53 (D)	
3/29/2016	7.54	7.24				
3/30/2016				8.2		6.07
5/24/2016	7.39	7.1		8.07		
5/25/2016					8.04	
5/26/2016						6.44
5/31/2016			7.98			
8/1/2016	7.26	7.07				
8/2/2016			7.64	8.07	7.74	
8/5/2016						6.67
9/26/2016	7.19	7.15			7.4	
9/27/2016			7.18	8.06		
9/28/2016						6.89
11/14/2016		7.15				
11/18/2016	7.04					
11/21/2016			7.49		7.4	6.89
11/22/2016				8.07		
2/1/2017	7.34	7.09	7.2			
2/3/2017					7.05	
2/6/2017				7.88		4.93
4/6/2017	7.49	7.23	7.42	7.86		4.92
4/7/2017					7.14	
6/13/2017	7.38	6.99	7.25		7.52	5.03
6/14/2017				7.66		
7/14/2017			7.5			
10/3/2017	7.39	7.09	7.5		7.38	6.01
10/4/2017				7.84		
1/9/2018				7.86 (Y)		
3/19/2018	7.32					
3/20/2018		6.9	6.76		7.27	4.88
3/21/2018				7.9		
9/17/2018	7.57	6.96				
9/18/2018			7.26	7.92	6.95	5.36 (D)
3/21/2019	7.21	6.82	7.3			5.33
3/27/2019				8.07		
5/6/2019					7.98	
9/13/2019			6.8			
9/16/2019	7.35	6.83		7.9 (D)	7.15	6.03
3/12/2020	7.4	6.88	7.53	8.02		4.82
3/16/2020					7.01	

Time Series



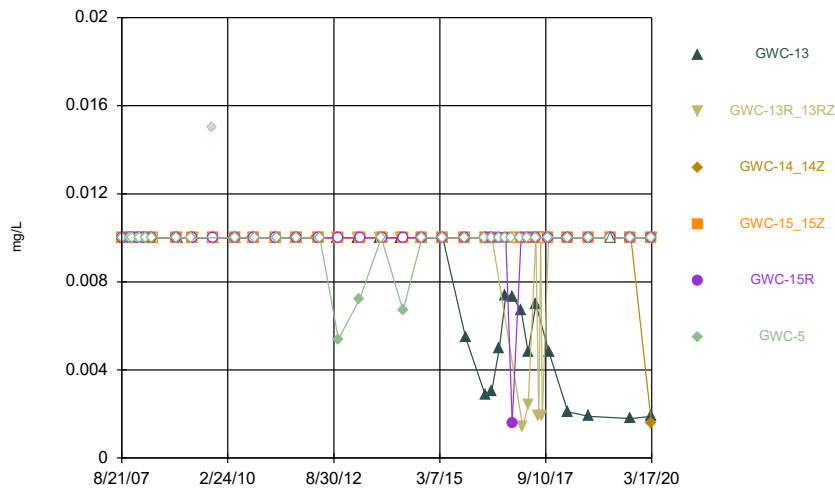
Constituent: Selenium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



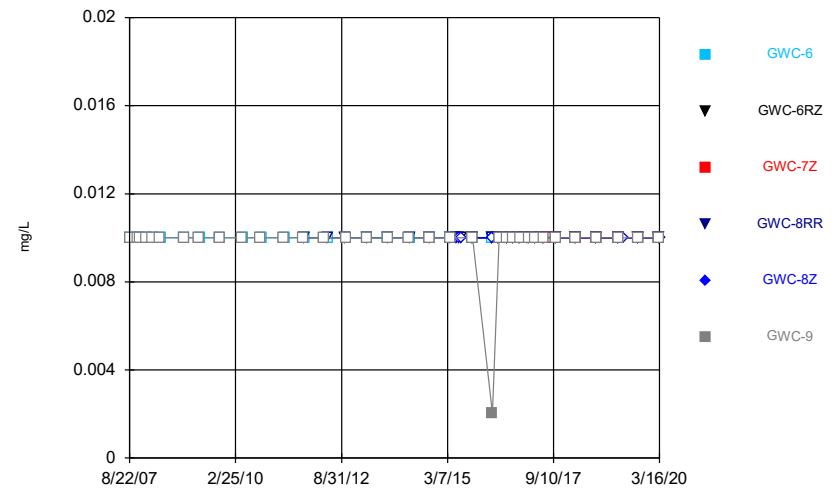
Constituent: Selenium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Selenium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Selenium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	<0.01	<0.01	<0.01		
10/23/2007	<0.01					
10/24/2007		<0.01	<0.01			
11/2/2007				<0.01		
11/18/2007	<0.01	<0.01	<0.01	<0.01		
1/30/2008	<0.01					
1/31/2008		<0.01	<0.01	<0.01		
3/10/2008	<0.01		<0.01			
3/11/2008		<0.01		<0.01		
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
5/14/2008				<0.01		
12/4/2008		<0.01	<0.01			
12/5/2008	<0.01			<0.01		
12/12/2008						<0.01
4/15/2009	<0.01			<0.01		
4/21/2009		<0.01	<0.01			
4/23/2009						<0.01
10/6/2009						<0.01
10/7/2009	<0.01	<0.01				
10/8/2009			<0.01	<0.01		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				<0.01		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						<0.01
10/4/2010		<0.01				
10/6/2010				<0.01		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						<0.01
4/21/2011				<0.01		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				<0.01
10/13/2011				<0.01		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				<0.01		
5/2/2012	<0.01					
10/2/2012						<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	<0.01		
4/9/2013						<0.01
4/11/2013			<0.01	<0.01		
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01				<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.01		<0.01	<0.01		
4/10/2014			<0.01			<0.01
4/11/2014	<0.01					
4/22/2014		<0.01				
4/23/2014				<0.01		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				<0.01		
3/30/2015	<0.01	<0.01	<0.01			<0.01
3/31/2015				<0.01		
10/11/2015						<0.01
10/12/2015				<0.01		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01	<0.01		
3/28/2016						<0.01
5/19/2016	<0.01		<0.01			
5/20/2016		0.00216 (J)				
5/23/2016				<0.01		<0.01
7/29/2016	<0.01	0.001 (J)	<0.01	<0.01		
8/1/2016						<0.01
9/22/2016			<0.01	<0.01		
9/23/2016	<0.01	<0.01				
9/26/2016						<0.01
11/9/2016	<0.01	<0.01				
11/10/2016			<0.01	<0.01		<0.01
1/30/2017	<0.01					<0.01
1/31/2017		<0.01	<0.01	<0.01		
2/22/2017					<0.01	
3/30/2017	<0.01	<0.01		<0.01		
4/3/2017			<0.01			
4/7/2017					<0.01	<0.01
6/9/2017	<0.01		<0.01			
6/12/2017		<0.01		<0.01		<0.01
6/14/2017					<0.01	
7/12/2017					<0.01	
7/20/2017					<0.01	
7/28/2017					<0.01	
8/9/2017					<0.01	
8/24/2017					<0.01	
10/2/2017	<0.01	<0.01	<0.01			<0.01
10/3/2017					<0.01	
10/4/2017				<0.01		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		0.0016 (J)		<0.01		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			<0.01		<0.01
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		<0.01		
3/21/2019					<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
9/12/2019	<0.01	<0.01 (D)			<0.01	
9/13/2019			<0.01	<0.01		<0.01
3/11/2020	<0.01	0.0021 (J)	<0.01	<0.01		<0.01
3/12/2020					<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/18/2007				<0.01	<0.01	
11/19/2007						<0.01
11/20/2007		<0.01	<0.01			
1/16/2008						<0.01
1/30/2008		<0.01	<0.01	<0.01	<0.01	
3/5/2008				<0.01		<0.01
3/6/2008		<0.01	<0.01		<0.01	
5/7/2008				<0.01	<0.01	
5/8/2008			<0.01			
5/12/2008		<0.01				
5/13/2008						<0.01
12/12/2008	<0.01					
12/13/2008		<0.01				<0.01
12/14/2008			<0.01	<0.01	<0.01	
4/16/2009						<0.01
4/23/2009	<0.01					
4/29/2009		<0.01	<0.01	<0.01	<0.01	
10/6/2009	<0.01					
10/20/2009		<0.01				
10/21/2009			<0.01			<0.01
10/22/2009				<0.01	<0.01	
4/21/2010			<0.01	<0.01	<0.01	
4/26/2010		<0.01				
4/27/2010						<0.01
5/3/2010	<0.01					
9/28/2010			<0.01	<0.01		
9/29/2010		<0.01			<0.01	
10/5/2010						<0.01
10/11/2010	<0.01					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			<0.01	
4/19/2011						<0.01
4/27/2011	<0.01					
10/4/2011			<0.01	<0.01	<0.01	
10/5/2011		<0.01				
10/12/2011						<0.01
10/19/2011	<0.01					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	<0.01					
10/2/2012	<0.01					<0.01
10/3/2012		<0.01		<0.01	<0.01	
10/8/2012			<0.01			
4/2/2013						<0.01
4/3/2013		<0.01	<0.01	<0.01	<0.01	
4/10/2013	<0.01					
10/9/2013				<0.01	<0.01	
10/15/2013		<0.01	<0.01			<0.01
10/16/2013	<0.01					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.01
4/2/2014				<0.01	<0.01	
4/9/2014		<0.01	<0.01			
4/22/2014	<0.01					
10/1/2014	<0.01					
10/2/2014		<0.01	<0.01	<0.01	<0.01	<0.01
3/30/2015	<0.01					
4/1/2015				<0.01	<0.01	<0.01
4/2/2015		<0.01	<0.01			
10/10/2015		<0.01				
10/11/2015	<0.01			<0.01	<0.01	
10/12/2015			<0.01			
10/14/2015						<0.01
3/28/2016	<0.01					
3/31/2016		<0.01	<0.01			
4/4/2016				<0.01	<0.01	<0.01
5/25/2016	<0.01					
5/26/2016		<0.01	<0.01	<0.01	<0.01	
5/27/2016						<0.01
8/1/2016	<0.01					
8/3/2016			<0.01	<0.01		<0.01
8/4/2016					<0.01	
8/5/2016		<0.01				
9/26/2016	<0.01					
9/28/2016		<0.01	<0.01	<0.01	<0.01	
9/30/2016						<0.01
11/11/2016	<0.01					
11/22/2016		<0.01	<0.01	<0.01	<0.01	<0.01
1/30/2017	<0.01					
2/7/2017		<0.01	<0.01			
2/8/2017				<0.01	<0.01	
2/13/2017						<0.01
4/3/2017	<0.01					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						<0.01
6/12/2017	<0.01					
6/14/2017		<0.01	<0.01			<0.01
6/15/2017				<0.01	<0.01	
10/2/2017	<0.01					
10/4/2017		<0.01	<0.01	<0.01	<0.01	<0.01
3/16/2018	<0.01					
3/20/2018		<0.01				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	<0.01
9/18/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2019	<0.01					
3/22/2019		<0.01	<0.01			
3/23/2019				<0.01	<0.01	<0.01
9/12/2019	<0.01					
9/17/2019		<0.01	<0.01	<0.01	<0.01	<0.01 (D)
3/11/2020	<0.01					
3/12/2020		<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.01	<0.01				
8/23/2007					<0.01	<0.01
8/24/2007			<0.01	<0.01		
10/25/2007						<0.01
11/1/2007	<0.01	<0.01				
11/2/2007			<0.01	<0.01	<0.01	
11/17/2007			<0.01		<0.01	
11/18/2007				<0.01		
11/19/2007	<0.01	<0.01				<0.01
1/15/2008			<0.01	<0.01	<0.01	
1/23/2008						<0.01
1/31/2008	<0.01	<0.01				
3/5/2008	<0.01	<0.01	<0.01			
3/6/2008					<0.01	
3/10/2008				<0.01		
3/11/2008						<0.01
5/7/2008		<0.01	<0.01		<0.01	
5/12/2008	<0.01					<0.01
5/13/2008				<0.01		
12/2/2008			<0.01	<0.01	<0.01	
12/11/2008						<0.01
12/12/2008		<0.01				
12/13/2008	<0.01					
4/15/2009						<0.01
4/16/2009			<0.01			
4/28/2009	<0.01			<0.01	<0.01	
4/29/2009		<0.01				
10/9/2009						0.015 (o)
10/19/2009					<0.01	
10/20/2009			<0.01	<0.01		
10/21/2009	<0.01	<0.01				
4/20/2010			<0.01			
4/27/2010				<0.01	<0.01	
4/28/2010	<0.01	<0.01				
5/4/2010						<0.01
9/29/2010			<0.01			
10/4/2010					<0.01	
10/5/2010	<0.01			<0.01		
10/6/2010		<0.01				
10/12/2010						<0.01
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	<0.01			<0.01		
4/20/2011		<0.01				
4/28/2011						<0.01
10/4/2011			<0.01			
10/12/2011		<0.01		<0.01	<0.01	
10/18/2011	<0.01					
10/19/2011						<0.01
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	<0.01	<0.01		<0.01		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.01
10/2/2012	<0.01	<0.01				
10/9/2012						0.0054
10/10/2012			<0.01	<0.01	<0.01	
4/2/2013	<0.01	<0.01				
4/11/2013						0.0072
4/15/2013			<0.01		<0.01	
4/16/2013				<0.01		
10/8/2013	<0.01	<0.01				
10/16/2013						<0.01
10/22/2013			<0.01	<0.01	<0.01	
4/1/2014	<0.01	<0.01				
4/21/2014			<0.01	<0.01	<0.01	
4/23/2014						0.0067
9/30/2014			<0.01	<0.01	<0.01	
10/1/2014	<0.01	<0.01				
10/3/2014						<0.01
3/31/2015		<0.01				<0.01
4/1/2015	<0.01					
4/3/2015			<0.01	<0.01	<0.01	
10/6/2015				<0.01		
10/7/2015			<0.01		<0.01	
10/12/2015						<0.01
10/14/2015		<0.01				
10/15/2015	0.0055					
3/28/2016						<0.01
4/4/2016	0.00286 (J)	<0.01				
4/5/2016			<0.01	<0.01	<0.01	
5/25/2016						<0.01
5/31/2016	0.00303 (J)			<0.01	<0.01	
6/1/2016		<0.01	<0.01			
8/1/2016						<0.01
8/4/2016	0.005 (J)				<0.01	
8/9/2016			<0.01			
9/27/2016						<0.01
9/29/2016	0.0074 (J)				<0.01	
11/11/2016						<0.01
11/23/2016				<0.01	0.0016 (J)	
11/28/2016	0.0073 (J)		<0.01			
1/31/2017						<0.01
2/9/2017	0.0067 (J)		<0.01			
2/10/2017				<0.01	<0.01	
2/22/2017		0.0014 (J)				
4/3/2017						<0.01
4/11/2017		0.0024 (J)	<0.01	<0.01		
4/12/2017	0.0048 (J)				<0.01	
6/12/2017						<0.01
6/14/2017			<0.01			
6/15/2017				<0.01	<0.01	
6/16/2017	0.007 (J)	<0.01				
7/12/2017		0.0019 (J)	<0.01	<0.01		
7/26/2017				<0.01		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
7/28/2017		<0.01				
8/10/2017		0.0019 (J)				
10/3/2017						<0.01
10/5/2017			<0.01			
10/6/2017		<0.01		<0.01	<0.01	
10/9/2017	0.0048 (J)					
3/19/2018						<0.01
3/21/2018	0.0021 (J)					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						<0.01
9/19/2018	0.0019 (J)		<0.01	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						<0.01
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	<0.01 (o)					
3/25/2019					<0.01	
9/16/2019						<0.01
9/17/2019			<0.01	<0.01	<0.01	
9/18/2019	0.0018 (J)	<0.01				
3/13/2020	0.0019 (J)		0.0016 (J)	<0.01	<0.01	
3/16/2020						<0.01
3/17/2020		<0.01				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

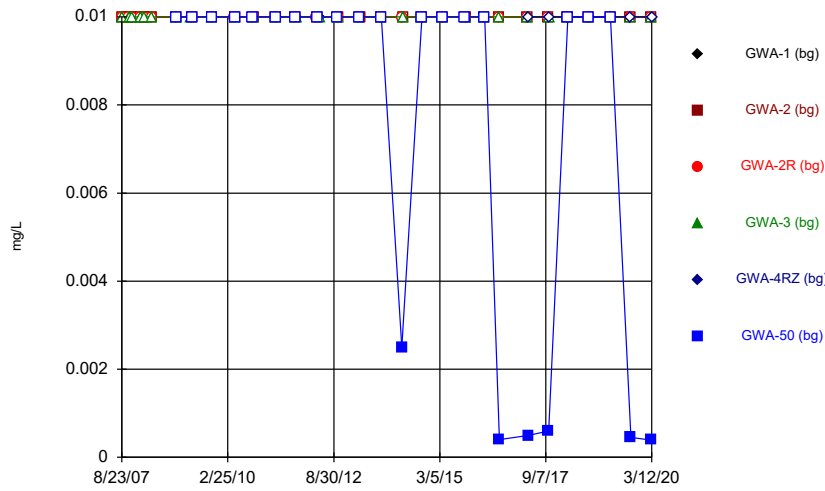
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						<0.01
10/25/2007	<0.01					
11/1/2007						<0.01
11/19/2007						<0.01
11/20/2007	<0.01					
1/15/2008						<0.01
1/23/2008	<0.01					
3/6/2008						<0.01
3/11/2008	<0.01					
5/13/2008						<0.01
5/14/2008	<0.01					
12/11/2008	<0.01					
12/12/2008						<0.01
4/16/2009						<0.01
4/23/2009	<0.01					
10/9/2009	<0.01					
10/13/2009						<0.01
4/21/2010						<0.01
5/4/2010	<0.01					
9/29/2010						<0.01
10/11/2010	<0.01					
4/13/2011						<0.01
4/26/2011	<0.01					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	<0.01					
10/8/2013	<0.01					
10/9/2013				<0.01		<0.01
4/9/2014						<0.01
4/10/2014				<0.01		
4/14/2014	<0.01					
9/30/2014						<0.01
10/2/2014				<0.01		
10/3/2014	<0.01					
4/1/2015	<0.01					
4/2/2015						<0.01
4/3/2015				<0.01		
5/26/2015		<0.01			<0.01	
6/18/2015		<0.01 (D)			<0.01 (D)	
7/2/2015		<0.01			<0.01	
10/8/2015				<0.01	<0.01	
10/9/2015	<0.01	<0.01				
10/10/2015						<0.01 (D)
3/22/2016					<0.01	
3/29/2016	<0.01	<0.01				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

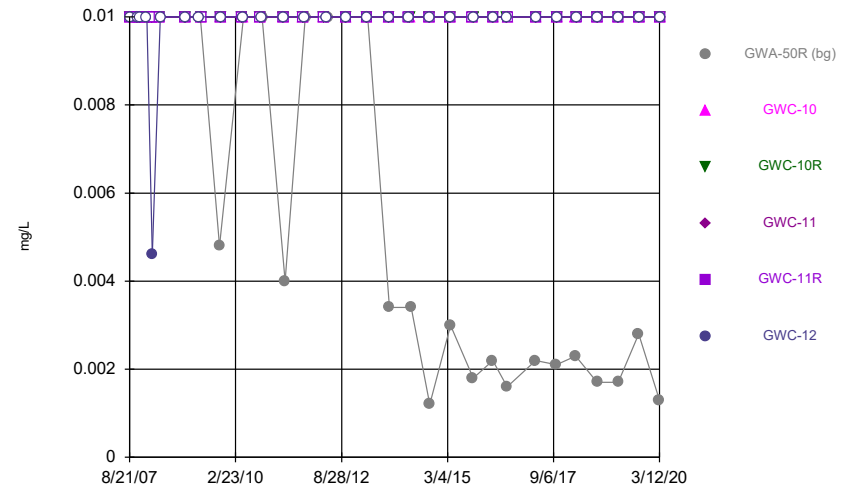
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.01		0.00202 (J)
5/24/2016	<0.01	<0.01		<0.01		
5/25/2016					<0.01	
5/26/2016						<0.01
5/31/2016			<0.01			
8/1/2016	<0.01	<0.01				
8/2/2016			<0.01	<0.01	<0.01	
8/5/2016						<0.01
9/26/2016	<0.01	<0.01			<0.01	
9/27/2016			<0.01	<0.01		
9/28/2016						<0.01
11/14/2016		<0.01				
11/18/2016	<0.01					
11/21/2016			<0.01		<0.01	<0.01
11/22/2016				<0.01		
2/1/2017	<0.01	<0.01	<0.01			
2/3/2017					<0.01	
2/6/2017				<0.01		<0.01
4/6/2017	<0.01	<0.01	<0.01	<0.01		<0.01
4/7/2017					<0.01	
6/13/2017	<0.01	<0.01	<0.01		<0.01	<0.01
6/14/2017				<0.01		
7/14/2017			<0.01			
10/3/2017	<0.01	<0.01	<0.01		<0.01	<0.01
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	<0.01		<0.01	<0.01
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	<0.01			<0.01
3/27/2019				<0.01		
5/6/2019					<0.01	
9/13/2019			<0.01			
9/16/2019	<0.01	<0.01		<0.01 (D)	<0.01	<0.01
3/12/2020	<0.01	<0.01	<0.01	<0.01		<0.01
3/16/2020					<0.01	

Time Series



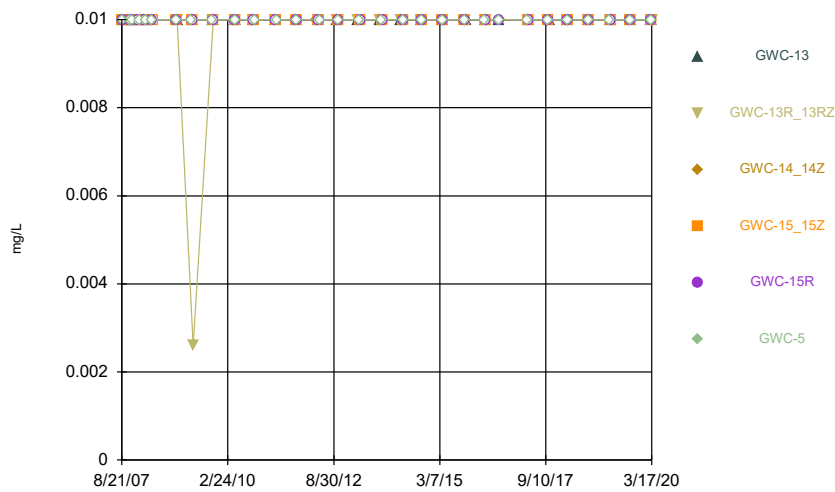
Constituent: Silver Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



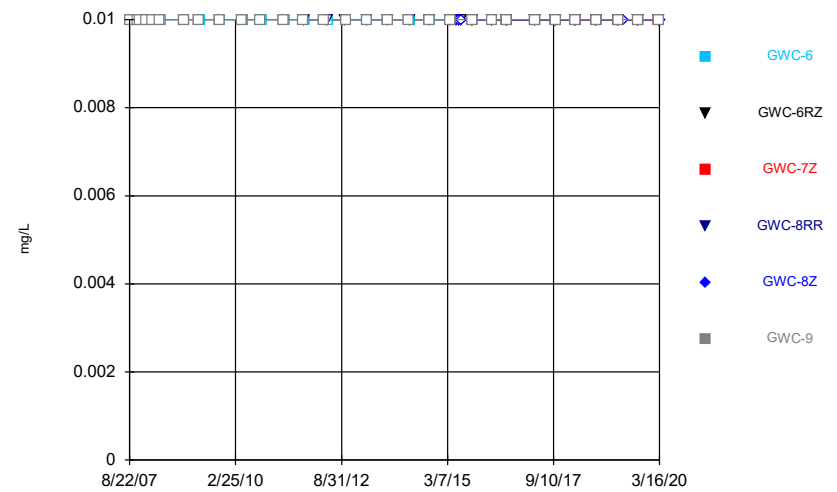
Constituent: Silver Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Silver Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Silver Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	<0.01	<0.01	<0.01		
10/23/2007	<0.01					
10/24/2007		<0.01	<0.01			
11/2/2007				<0.01		
11/18/2007	<0.01	<0.01	<0.01	<0.01		
1/30/2008	<0.01					
1/31/2008		<0.01	<0.01	<0.01		
3/10/2008	<0.01		<0.01			
3/11/2008		<0.01		<0.01		
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
5/14/2008				<0.01		
12/4/2008		<0.01	<0.01			
12/5/2008	<0.01			<0.01		
12/12/2008						<0.01
4/15/2009	<0.01			<0.01		
4/21/2009		<0.01	<0.01			
4/23/2009						<0.01
10/6/2009						<0.01
10/7/2009	<0.01	<0.01				
10/8/2009			<0.01	<0.01		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				<0.01		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						<0.01
10/4/2010		<0.01				
10/6/2010				<0.01		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						<0.01
4/21/2011				<0.01		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				<0.01
10/13/2011				<0.01		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				<0.01		
5/2/2012	<0.01					
10/2/2012						<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	<0.01		
4/9/2013						<0.01
4/11/2013			<0.01	<0.01		
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01				<0.01

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.01		<0.01	<0.01		
4/10/2014			<0.01			0.0025 (J)
4/11/2014	<0.01					
4/22/2014		<0.01				
4/23/2014				<0.01		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				<0.01		
3/30/2015	<0.01	<0.01	<0.01			<0.01
3/31/2015				<0.01		
10/11/2015						<0.01
10/12/2015				<0.01		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01	<0.01		
3/28/2016						<0.01
7/29/2016	<0.01	<0.01	<0.01	<0.01		
8/1/2016						0.0004 (J)
3/30/2017	<0.01	<0.01		<0.01		
4/3/2017			<0.01			
4/7/2017					<0.01	0.0005 (J)
10/2/2017	<0.01	<0.01	<0.01			0.0006 (J)
10/3/2017					<0.01	
10/4/2017				<0.01		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		<0.01		<0.01		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			<0.01		<0.01
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		<0.01		
3/21/2019					<0.01	
9/12/2019	<0.01	<0.01 (D)			<0.01	
9/13/2019			<0.01	<0.01		0.00045 (J)
3/11/2020	<0.01	<0.01	<0.01	<0.01		0.00039 (J)
3/12/2020					<0.01	

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/18/2007				<0.01	<0.01	
11/19/2007						<0.01
11/20/2007		<0.01	<0.01			
1/16/2008						<0.01
1/30/2008		<0.01	<0.01	<0.01	<0.01	
3/5/2008				<0.01		0.0046
3/6/2008		<0.01	<0.01		<0.01	
5/7/2008				<0.01	<0.01	
5/8/2008			<0.01			
5/12/2008		<0.01				
5/13/2008						<0.01
12/12/2008	<0.01					
12/13/2008		<0.01				<0.01
12/14/2008			<0.01	<0.01	<0.01	
4/16/2009						<0.01
4/23/2009	<0.01					
4/29/2009		<0.01	<0.01	<0.01	<0.01	
10/6/2009	0.0048					
10/20/2009		<0.01				
10/21/2009			<0.01			<0.01
10/22/2009				<0.01	<0.01	
4/21/2010			<0.01	<0.01	<0.01	
4/26/2010		<0.01				
4/27/2010						<0.01
5/3/2010	<0.01					
9/28/2010			<0.01	<0.01		
9/29/2010		<0.01			<0.01	
10/5/2010						<0.01
10/11/2010	<0.01					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			<0.01	
4/19/2011						<0.01
4/27/2011	0.004					
10/4/2011			<0.01	<0.01	<0.01	
10/5/2011		<0.01				
10/12/2011						<0.01
10/19/2011	<0.01					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	<0.01					
10/2/2012	<0.01					<0.01
10/3/2012		<0.01		<0.01	<0.01	
10/8/2012			<0.01			
4/2/2013						<0.01
4/3/2013		<0.01	<0.01	<0.01	<0.01	
4/10/2013	<0.01					
10/9/2013				<0.01	<0.01	<0.01
10/15/2013		<0.01	<0.01			
10/16/2013	0.0034					

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.01
4/2/2014				<0.01	<0.01	
4/9/2014		<0.01	<0.01			
4/22/2014	0.0034					
10/1/2014	0.0012 (J)					
10/2/2014		<0.01	<0.01	<0.01	<0.01	<0.01
3/30/2015	0.003					
4/1/2015				<0.01	<0.01	<0.01
4/2/2015		<0.01	<0.01			
10/10/2015		<0.01				
10/11/2015	0.0018 (J)			<0.01	<0.01	
10/12/2015			<0.01			
10/14/2015						<0.01
3/28/2016	0.0022 (J)					
3/31/2016		<0.01	<0.01			
4/4/2016				<0.01	<0.01	<0.01
8/1/2016	0.0016 (J)					
8/3/2016			<0.01	<0.01		<0.01
8/4/2016					<0.01	
8/5/2016		<0.01				
4/3/2017	0.0022 (J)					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						<0.01
10/2/2017	0.0021 (J)					
10/4/2017		<0.01	<0.01	<0.01	<0.01	<0.01
3/16/2018	0.0023 (J)					
3/20/2018		<0.01				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	<0.01
9/18/2018	0.0017 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2019	0.0017 (J)					
3/22/2019		<0.01	<0.01			
3/23/2019				<0.01	<0.01	<0.01
9/12/2019	0.0028 (J)					
9/17/2019		<0.01	<0.01	<0.01	<0.01	<0.01 (D)
3/11/2020	0.0013 (J)					
3/12/2020		<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.01	<0.01				
8/23/2007					<0.01	<0.01
8/24/2007			<0.01	<0.01		
10/25/2007						<0.01
11/1/2007	<0.01	<0.01				
11/2/2007			<0.01	<0.01	<0.01	
11/17/2007			<0.01		<0.01	
11/18/2007				<0.01		
11/19/2007	<0.01	<0.01				<0.01
1/15/2008			<0.01	<0.01	<0.01	
1/23/2008						<0.01
1/31/2008	<0.01	<0.01				
3/5/2008	<0.01	<0.01	<0.01			
3/6/2008					<0.01	
3/10/2008				<0.01		
3/11/2008						<0.01
5/7/2008		<0.01	<0.01		<0.01	
5/12/2008	<0.01					<0.01
5/13/2008				<0.01		
12/2/2008			<0.01	<0.01	<0.01	
12/11/2008						<0.01
12/12/2008		<0.01				
12/13/2008	<0.01					
4/15/2009						<0.01
4/16/2009			<0.01			
4/28/2009	<0.01			<0.01	<0.01	
4/29/2009		0.0026				
10/9/2009						<0.01
10/19/2009					<0.01	
10/20/2009			<0.01	<0.01		
10/21/2009	<0.01	<0.01				
4/20/2010			<0.01			
4/27/2010				<0.01	<0.01	
4/28/2010	<0.01	<0.01				
5/4/2010						<0.01
9/29/2010			<0.01			
10/4/2010					<0.01	
10/5/2010	<0.01			<0.01		
10/6/2010		<0.01				
10/12/2010						<0.01
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	<0.01			<0.01		
4/20/2011		<0.01				
4/28/2011						<0.01
10/4/2011			<0.01			
10/12/2011		<0.01		<0.01	<0.01	
10/18/2011	<0.01					
10/19/2011						<0.01
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	<0.01	<0.01		<0.01		

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.01
10/2/2012	<0.01	<0.01				
10/9/2012						<0.01
10/10/2012			<0.01	<0.01	<0.01	
4/2/2013	<0.01	<0.01				
4/11/2013						<0.01
4/15/2013			<0.01		<0.01	
4/16/2013				<0.01		
10/8/2013	<0.01	<0.01				
10/16/2013						<0.01
10/22/2013			<0.01	<0.01	<0.01	
4/1/2014	<0.01	<0.01				
4/21/2014			<0.01	<0.01	<0.01	
4/23/2014						<0.01
9/30/2014			<0.01	<0.01	<0.01	
10/1/2014	<0.01	<0.01				
10/3/2014						<0.01
3/31/2015		<0.01				<0.01
4/1/2015	<0.01					
4/3/2015			<0.01	<0.01	<0.01	
10/6/2015				<0.01		
10/7/2015			<0.01		<0.01	
10/12/2015						<0.01
10/14/2015		<0.01				
10/15/2015	<0.01					
3/28/2016						<0.01
4/4/2016	<0.01	<0.01				
4/5/2016			<0.01	<0.01	<0.01	
8/1/2016						<0.01
8/4/2016	<0.01				<0.01	
8/9/2016			<0.01			
4/3/2017						<0.01
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	<0.01				<0.01	
10/3/2017						<0.01
10/5/2017			<0.01			
10/6/2017		<0.01		<0.01	<0.01	
10/9/2017	<0.01					
3/19/2018						<0.01
3/21/2018	<0.01					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						<0.01
9/19/2018	<0.01		<0.01	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						<0.01
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	<0.01					
3/25/2019					<0.01	
9/16/2019						<0.01
9/17/2019			<0.01	<0.01	<0.01	
9/18/2019	<0.01	<0.01				

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	<0.01		<0.01	<0.01	<0.01	
3/16/2020						<0.01
3/17/2020		<0.01				

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

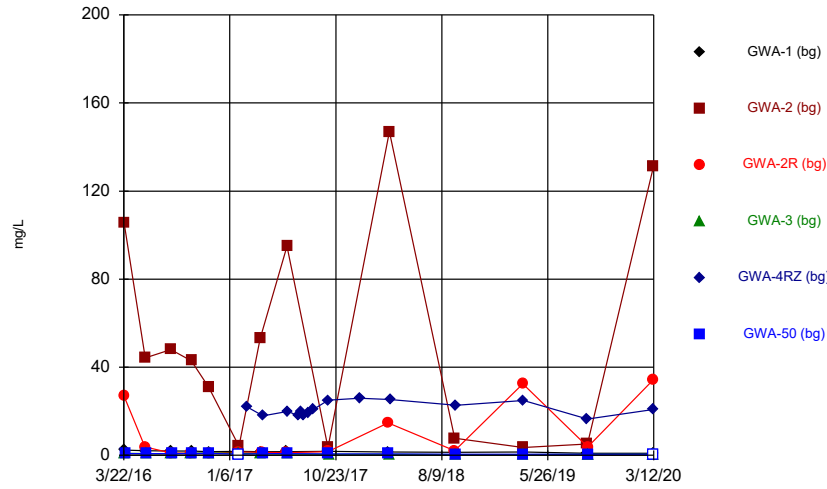
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						<0.01
10/25/2007	<0.01					
11/1/2007						<0.01
11/19/2007						<0.01
11/20/2007	<0.01					
1/15/2008						<0.01
1/23/2008	<0.01					
3/6/2008						<0.01
3/11/2008	<0.01					
5/13/2008						<0.01
5/14/2008	<0.01					
12/11/2008	<0.01					
12/12/2008						<0.01
4/16/2009						<0.01
4/23/2009	<0.01					
10/9/2009	<0.01					
10/13/2009						<0.01
4/21/2010						<0.01
5/4/2010	<0.01					
9/29/2010						<0.01
10/11/2010	<0.01					
4/13/2011						<0.01
4/26/2011	<0.01					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	<0.01					
10/8/2013	<0.01					
10/9/2013				<0.01		<0.01
4/9/2014						<0.01
4/10/2014				<0.01		
4/14/2014	<0.01					
9/30/2014						<0.01
10/2/2014				<0.01		
10/3/2014	<0.01					
4/1/2015	<0.01					
4/2/2015						<0.01
4/3/2015				<0.01		
5/26/2015		<0.01			<0.01	
6/18/2015		<0.01 (D)			<0.01 (D)	
7/2/2015		<0.01			<0.01	
10/8/2015				<0.01	<0.01	
10/9/2015	<0.01	<0.01				
10/10/2015						<0.01 (D)
3/22/2016					<0.01	
3/29/2016	<0.01	<0.01				

Time Series

Constituent: Silver (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

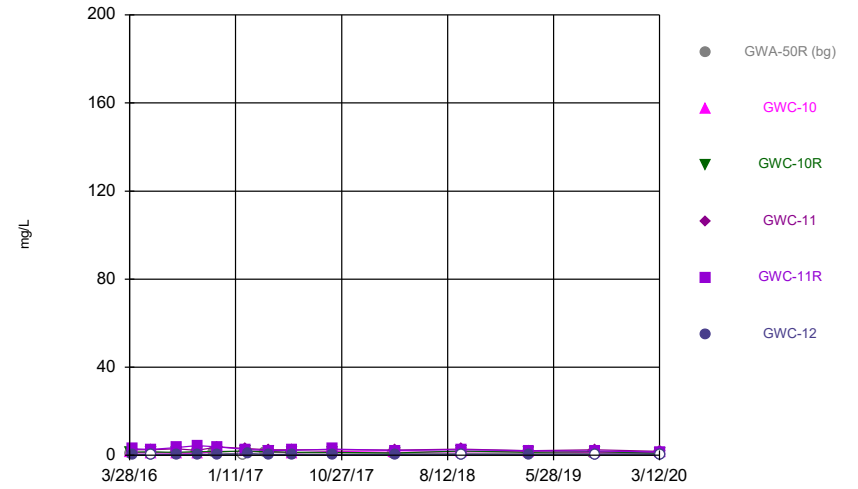
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.01		<0.01
8/1/2016	<0.01	<0.01				
8/2/2016			<0.01	<0.01	<0.01	
8/5/2016						<0.01
4/6/2017	<0.01	<0.01	<0.01	<0.01		<0.01
4/7/2017					<0.01	
10/3/2017	<0.01	<0.01	<0.01		<0.01	<0.01
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	<0.01		<0.01	<0.01
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	<0.01			<0.01
3/27/2019				<0.01		
5/6/2019					<0.01	
9/13/2019			<0.01			
9/16/2019	<0.01	<0.01		<0.01 (D)	<0.01	<0.01
3/12/2020	<0.01	<0.01	<0.01	<0.01		<0.01
3/16/2020					<0.01	

Time Series



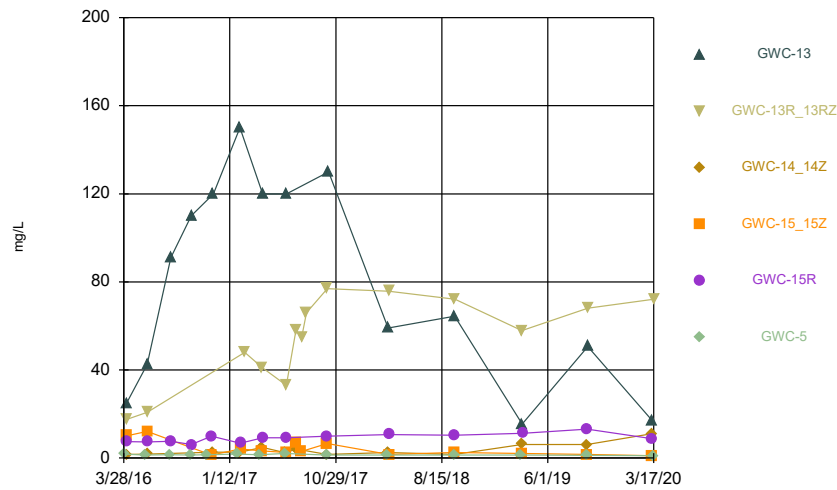
Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



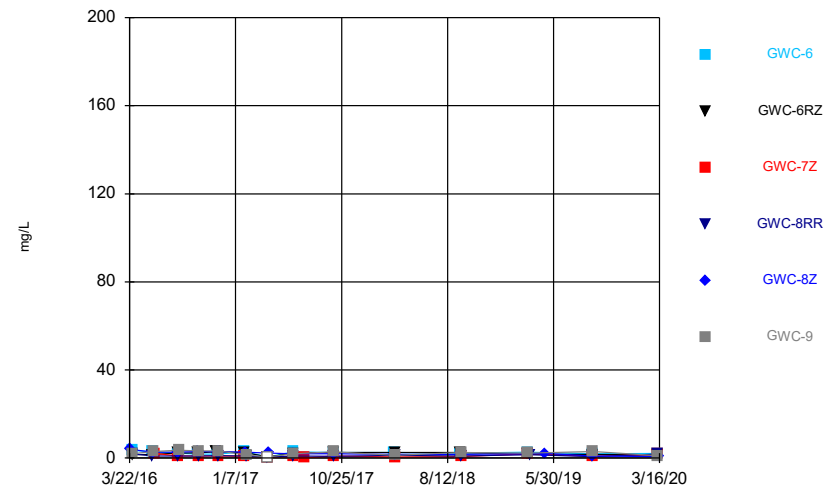
Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	2.3685					
3/23/2016		105.552	26.8249	0.8724 (J)		
3/28/2016						0.7283 (J)
5/19/2016	2.14		3.81			
5/20/2016		44.3				
5/23/2016				0.805 (J)		0.728 (J)
7/29/2016	1.9	48	1.1	0.84 (J)		
8/1/2016						0.78 (J)
9/22/2016			0.96 (J)	0.94 (J)		
9/23/2016	2	43				
9/26/2016						0.82 (J)
11/9/2016	1.6	31				
11/10/2016			0.72 (J)	1.1		0.92 (J)
1/30/2017	1.8					<1
1/31/2017		4.2	1.5	0.92 (J)		
2/22/2017					22	
3/30/2017	1.6	53		0.77 (J)		
4/3/2017			1.3			
4/7/2017					18	0.82 (J)
6/9/2017	1.7		1.2			
6/12/2017		95		0.68 (J)		0.78 (J)
6/14/2017					20	
7/12/2017					18	
7/20/2017					20	
7/28/2017					18	
8/9/2017					19	
8/24/2017					21	
10/2/2017	1.8	3.5	1.7			0.71 (J)
10/3/2017					25	
10/4/2017				0.5 (J)		
12/28/2017					26 (Y)	
3/16/2018	1.5		14.8 (J)			0.67 (J)
3/19/2018		147		0.49 (J)		
3/21/2018					25.4	
9/14/2018		7.7	2.1			
9/17/2018	1.3 (D)			0.36 (J)		0.47 (J)
9/18/2018					22.8	
3/19/2019			32.5 (J)			0.52 (J)
3/20/2019	1.5	3.6		0.38 (J)		
3/21/2019					24.9	
9/12/2019	0.98 (J)	5.2			16.5	
9/13/2019			3.8	<1		0.55 (J)
3/11/2020	0.94 (J)	131	34.3	<1		<1
3/12/2020					20.8	

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	0.9594 (J)					
3/31/2016		1.17	1.5			
4/4/2016				2.57	2.99	0.3574 (J)
5/25/2016	1.59					
5/26/2016		1.01	1.51	2.5	2.68	
5/27/2016						<1
8/1/2016	1					
8/3/2016			1.4	3		0.35 (J)
8/4/2016					3.6	
8/5/2016		1.1				
9/26/2016	1.2					
9/28/2016		1	1.6	2.3	4.4	
9/30/2016						0.47 (J)
11/11/2016	1.2					
11/22/2016		1.8	1.6	3.8	3.8	0.36 (J)
1/30/2017	<1					
2/7/2017		1.7	2			
2/8/2017				3.1	2.7	
2/13/2017						0.79 (J)
4/3/2017	1.3					
4/10/2017		1.9	1.7	2.5	2.2	
4/11/2017						0.42 (J)
6/12/2017	1.1					
6/14/2017		1.1	1.4			0.3 (J)
6/15/2017				2.5	2.3	
10/2/2017	1.1					
10/4/2017		1.8	1.4	2.5	2.8	0.36 (J)
3/16/2018	0.87 (J)					
3/20/2018		1.4				
3/21/2018			1.1	2.4		
3/22/2018					2.2	0.3 (J)
9/18/2018	0.87 (J)	1.6	1.9	2.8	2.6	<1
3/19/2019	0.97 (J)					
3/22/2019		1.6	1.3			
3/23/2019				2.1	2.1	0.3 (J)
9/12/2019	0.8 (J)					
9/17/2019		1.2	1.6	2.6	2	<1 (D)
3/11/2020	0.85 (J)					
3/12/2020		1.3	0.99 (J)	1.8	1.5	<1

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						1.87
4/4/2016	24.8	17.5				
4/5/2016			1.65	10.1	7.45	
5/25/2016						1.41
5/31/2016	42.5			12.1	7.29	
6/1/2016		20.9	1.75			
8/1/2016						1.5
8/4/2016	91				7.6	
9/27/2016						1.4
9/29/2016	110				6.1	
11/11/2016						1.5
11/23/2016				1.3	10	
11/28/2016	120		2.7			
1/31/2017						1.8
2/9/2017	150		2.7			
2/10/2017				4.2	6.7	
2/22/2017		48				
4/3/2017						1.5
4/11/2017		41	4.9	3.2		
4/12/2017	120				9.2	
6/12/2017						2.1
6/14/2017			2.4			
6/15/2017				2.5	9.2	
6/16/2017	120	33				
7/12/2017		58	4.1	6.9		
7/26/2017				2.9		
7/28/2017		55				
8/10/2017		66				
10/3/2017						1.4
10/5/2017			1.6			
10/6/2017		77		6.6	10	
10/9/2017	130					
3/19/2018						1.3
3/21/2018	59.1					
3/22/2018			2.5			
3/23/2018		75.8		1.6	10.6	
9/17/2018						1.3
9/19/2018	64.5		1.7	2.6	10.4	
9/20/2018		72.2				
3/20/2019						1.3
3/22/2019		57.9	6.2	2.1		
3/23/2019	15.5 (J)					
3/25/2019					11.2	
9/16/2019						1.2
9/17/2019			6.1	1.6	13.1	
9/18/2019	50.7	68.1				
3/13/2020	16.9		11.1	1.1	8.8	
3/16/2020						1.1
3/17/2020		72.1				

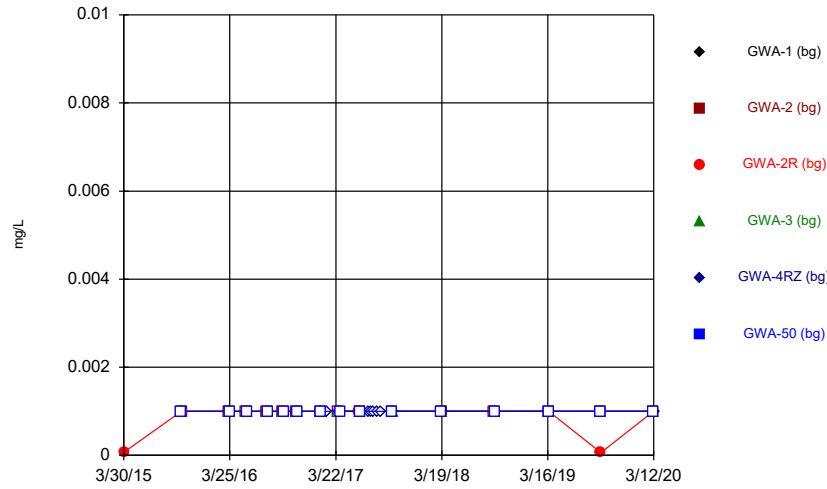
Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

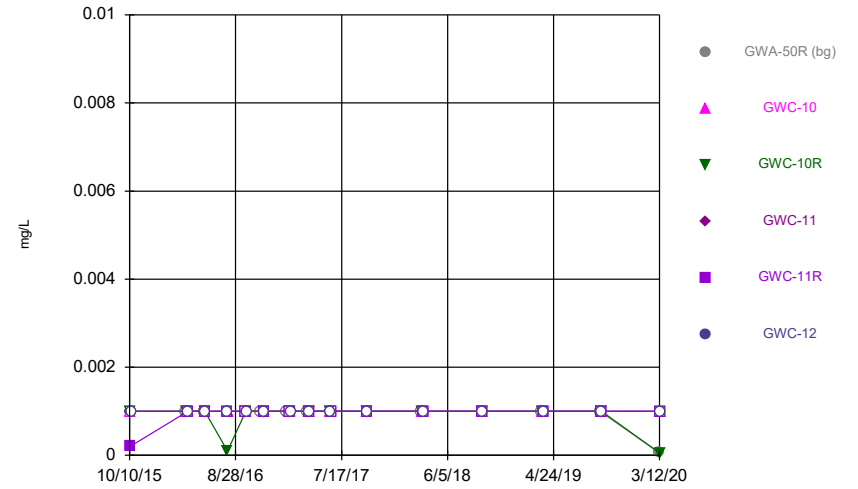
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					3.9321	
3/29/2016	3.5801	1.4863				
3/30/2016				1.9542		2
5/24/2016	2.79	1.62		0.989 (J)		
5/25/2016					2.68	
5/26/2016						2.93
5/31/2016			2.03			
8/1/2016	2.2	2.3				
8/2/2016			0.96 (J)	1	2.7	
8/5/2016						3.6
9/26/2016	1.8	2.4			2.9	
9/27/2016			0.87 (J)	0.95 (J)		
9/28/2016						3.2
11/14/2016		2.8				
11/18/2016	1.8					
11/21/2016			0.93 (J)		2.8	3.3
11/22/2016				1.1		
2/1/2017	2.8	2.6	0.76 (J)			
2/3/2017					2.7	
2/6/2017				0.96 (J)		1.3
4/6/2017	<1	<1	<1	<1		<1
4/7/2017					2.3	
6/13/2017	2.8	2.2	0.58 (J)		2	2
6/14/2017				0.97 (J)		
7/14/2017			0.04 (J)			
10/3/2017	2.6	2.6	0.87 (J)		1.9	2.8
10/4/2017				0.84 (J)		
3/19/2018	2.6					
3/20/2018		2.5	0.5 (J)		1.6	1.2
3/21/2018				1.2		
9/17/2018	2.2	2.5				
9/18/2018			0.65 (J)	0.9 (J)	1.6	2.6
3/21/2019	2.7	1.7	1.9			2.3
3/27/2019				1.5		
5/6/2019					2.1	
9/13/2019			0.76 (J)			
9/16/2019	2	1.6		0.69 (JD)	1	3
3/12/2020	2.1	1.4	1.7	1.8		1.1
3/16/2020					0.66 (J)	

Time Series



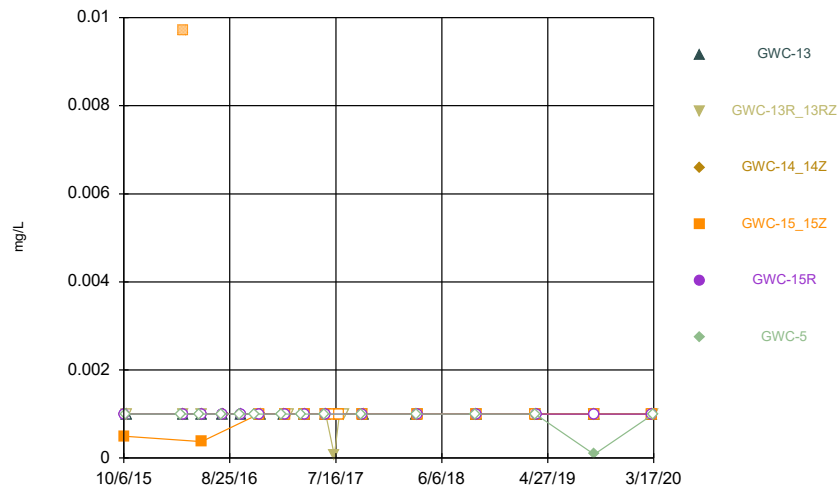
Constituent: Thallium Analysis Run 4/7/2020 9:54 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



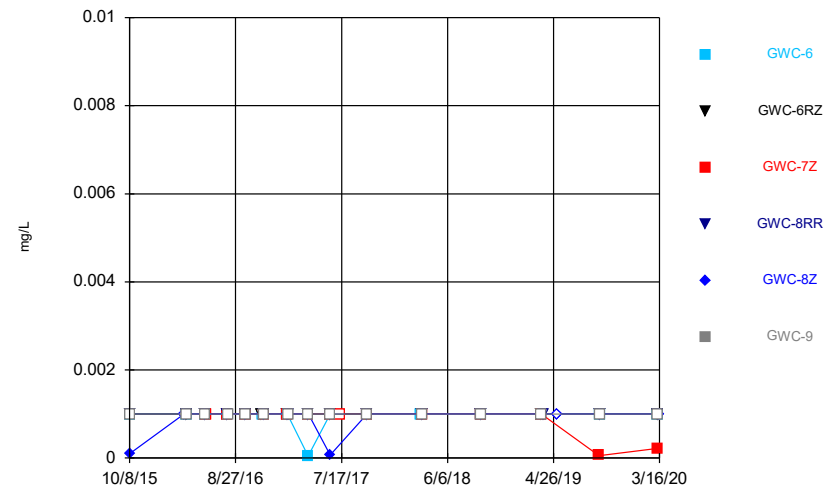
Constituent: Thallium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Thallium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Thallium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/30/2015			7E-05			
10/11/2015						<0.001
10/12/2015				<0.001		
10/13/2015	<0.001	<0.001	<0.001			
3/22/2016	<0.001					
3/23/2016		<0.001	<0.001	<0.001		
3/28/2016						<0.001
5/19/2016	<0.001		<0.001			
5/20/2016		<0.001				
5/23/2016				<0.001		<0.001
7/29/2016	<0.001	<0.001	<0.001	<0.001		
8/1/2016						<0.001
9/22/2016			<0.001	<0.001		
9/23/2016	<0.001	<0.001				
9/26/2016						<0.001
11/9/2016	<0.001	<0.001				
11/10/2016			<0.001	<0.001		<0.001
1/30/2017	<0.001					<0.001
1/31/2017		<0.001	<0.001	<0.001		
2/22/2017					<0.001	
3/30/2017	<0.001	<0.001		<0.001		
4/3/2017			<0.001			
4/7/2017					<0.001	<0.001
6/9/2017	<0.001		<0.001			
6/12/2017		<0.001		<0.001		<0.001
6/14/2017					<0.001	
7/12/2017					<0.001	
7/20/2017					<0.001	
7/28/2017					<0.001	
8/9/2017					<0.001	
8/24/2017					<0.001	
10/2/2017	<0.001	<0.001	<0.001			<0.001
10/3/2017					<0.001	
10/4/2017				<0.001		
3/16/2018	<0.001		<0.001			<0.001
3/19/2018		<0.001		<0.001		
3/21/2018					<0.001	
9/14/2018		<0.001	<0.001			
9/17/2018	<0.001 (D)			<0.001		<0.001
9/18/2018					<0.001	
3/19/2019			<0.001			<0.001
3/20/2019	<0.001	<0.001		<0.001		
3/21/2019					<0.001	
9/12/2019	<0.001	<0.001 (D)			<0.001	
9/13/2019			6.2E-05 (J)	<0.001		<0.001
3/11/2020	<0.001	<0.001	<0.001	<0.001		<0.001
3/12/2020					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
10/10/2015		<0.001				
10/11/2015	<0.001			<0.001	0.0002	
10/12/2015			<0.001			
10/14/2015						<0.001
3/28/2016	<0.001					
3/31/2016		<0.001	<0.001			
4/4/2016				<0.001	<0.001	<0.001
5/25/2016	<0.001					
5/26/2016		<0.001	<0.001	<0.001	<0.001	
5/27/2016						<0.001
8/1/2016	<0.001					
8/3/2016			0.0001 (J)	<0.001		<0.001
8/4/2016					<0.001	
8/5/2016		<0.001				
9/26/2016	<0.001					
9/28/2016		<0.001	<0.001	<0.001	<0.001	
9/30/2016						<0.001
11/11/2016	<0.001					
11/22/2016		<0.001	<0.001	<0.001	<0.001	<0.001
1/30/2017	<0.001					
2/7/2017		<0.001	<0.001			
2/8/2017				<0.001	<0.001	
2/13/2017						<0.001
4/3/2017	<0.001					
4/10/2017		<0.001	<0.001	<0.001	<0.001	
4/11/2017						<0.001
6/12/2017	<0.001					
6/14/2017		<0.001	<0.001			<0.001
6/15/2017				<0.001	<0.001	
10/2/2017	<0.001					
10/4/2017		<0.001	<0.001	<0.001	<0.001	<0.001
3/16/2018	<0.001					
3/20/2018		<0.001				
3/21/2018			<0.001	<0.001		
3/22/2018					<0.001	<0.001
9/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/19/2019	<0.001					
3/22/2019		<0.001	<0.001			
3/23/2019				<0.001	<0.001	<0.001
9/12/2019	<0.001					
9/17/2019		<0.001	<0.001	<0.001	<0.001	<0.001 (D)
3/11/2020	5.9E-05 (J)					
3/12/2020		<0.001	5.4E-05 (J)	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
10/6/2015				0.0005 (D)		
10/7/2015			<0.001 (D)		<0.001 (D)	
10/12/2015						<0.001
10/14/2015		<0.001				
10/15/2015	<0.001					
3/28/2016						<0.001
4/4/2016	<0.001	<0.001				
4/5/2016			<0.001	0.00971 (o)	<0.001	
5/25/2016						<0.001
5/31/2016	<0.001			0.000373 (J)	<0.001	
6/1/2016		<0.001	<0.001			
8/1/2016						<0.001
8/4/2016	<0.001				<0.001	
8/9/2016			<0.001			
9/27/2016						<0.001
9/29/2016	<0.001				<0.001	
11/11/2016						<0.001
11/23/2016				<0.001	<0.001	
11/28/2016	<0.001		<0.001			
1/31/2017						<0.001
2/9/2017	<0.001		<0.001			
2/10/2017				<0.001	<0.001	
2/22/2017		<0.001				
4/3/2017						<0.001
4/11/2017		<0.001	<0.001	<0.001		
4/12/2017	<0.001				<0.001	
6/12/2017						<0.001
6/14/2017			<0.001			
6/15/2017				<0.001	<0.001	
6/16/2017	<0.001	<0.001				
7/12/2017		6E-05 (J)	<0.001	<0.001		
7/26/2017				<0.001		
7/28/2017		<0.001				
8/10/2017		<0.001				
10/3/2017						<0.001
10/5/2017			<0.001			
10/6/2017		<0.001		<0.001	<0.001	
10/9/2017	<0.001					
3/19/2018						<0.001
3/21/2018	<0.001					
3/22/2018			<0.001			
3/23/2018		<0.001		<0.001	<0.001	
9/17/2018						<0.001
9/19/2018	<0.001		<0.001	<0.001	<0.001	
9/20/2018		<0.001				
3/20/2019						<0.001
3/22/2019		<0.001	<0.001	<0.001		
3/23/2019	<0.001					
3/25/2019					<0.001	
9/16/2019						8.4E-05 (J)
9/17/2019			<0.001	<0.001	<0.001	
9/18/2019	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

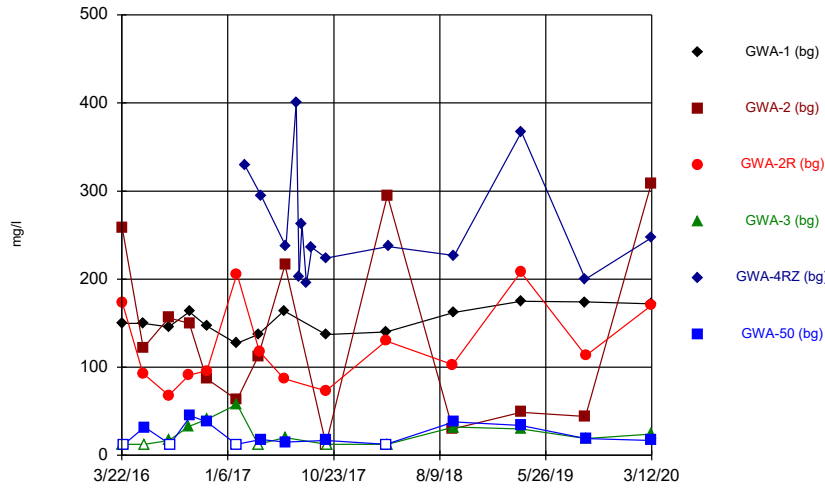
	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	<0.001		<0.001	<0.001	<0.001	
3/16/2020						<0.001
3/17/2020		<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

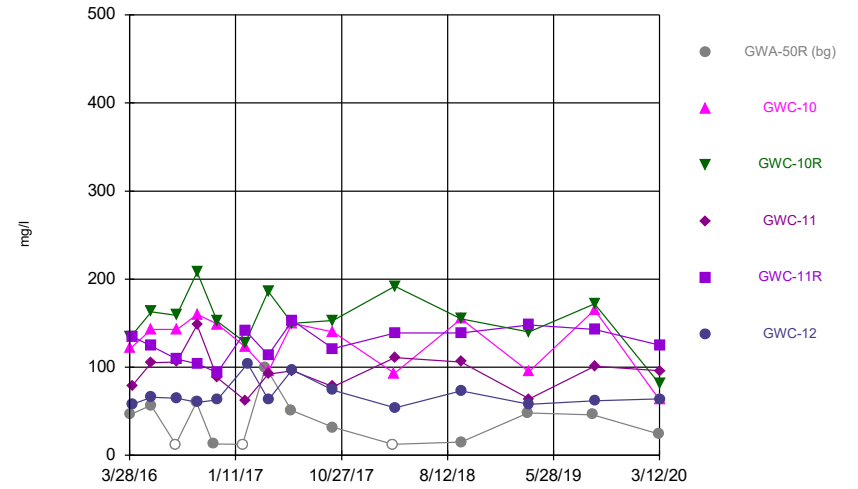
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
10/8/2015				<0.001 (D)	0.0001 (D)	
10/9/2015	<0.001	<0.001				
10/10/2015						<0.001
3/22/2016					<0.001	
3/29/2016	<0.001	<0.001				
3/30/2016				<0.001		<0.001
5/24/2016	<0.001	<0.001		<0.001		
5/25/2016					<0.001	
5/26/2016						<0.001
5/31/2016			<0.001			
8/1/2016	<0.001	<0.001				
8/2/2016			<0.001	<0.001	<0.001	
8/5/2016						<0.001
9/26/2016	<0.001	<0.001			<0.001	
9/27/2016			<0.001	<0.001		
9/28/2016						<0.001
11/14/2016		<0.001				
11/18/2016	<0.001					
11/21/2016			<0.001		<0.001	<0.001
11/22/2016				<0.001		
2/1/2017	<0.001	<0.001	<0.001			
2/3/2017					<0.001	
2/6/2017				<0.001		<0.001
4/6/2017	5E-05 (J)	<0.001	<0.001	<0.001		<0.001
4/7/2017					<0.001	
6/13/2017	<0.001	<0.001	<0.001		7E-05 (J)	<0.001
6/14/2017				<0.001		
7/14/2017			<0.001			
10/3/2017	<0.001	<0.001	<0.001		<0.001	<0.001
10/4/2017				<0.001		
3/19/2018	<0.001					
3/20/2018		<0.001	<0.001		<0.001	<0.001
3/21/2018				<0.001		
9/17/2018	<0.001	<0.001				
9/18/2018			<0.001	<0.001	<0.001	<0.001 (D)
3/21/2019	<0.001	<0.001	<0.001			<0.001
3/27/2019				<0.001		
5/6/2019					<0.001	
9/13/2019			5.7E-05 (J)			
9/16/2019	<0.001	<0.001		<0.001 (D)	<0.001	<0.001
3/12/2020	<0.001	<0.001	0.00022 (J)	<0.001		<0.001
3/16/2020					<0.001	

Time Series



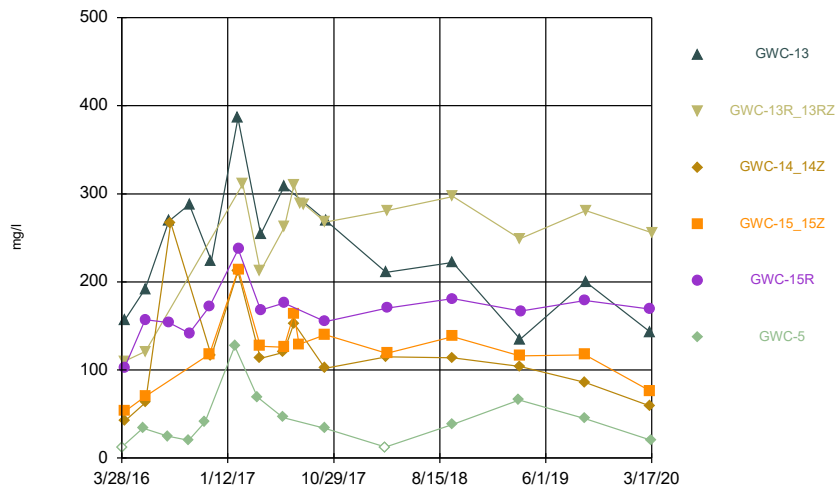
Constituent: Total Dissolved Solids Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



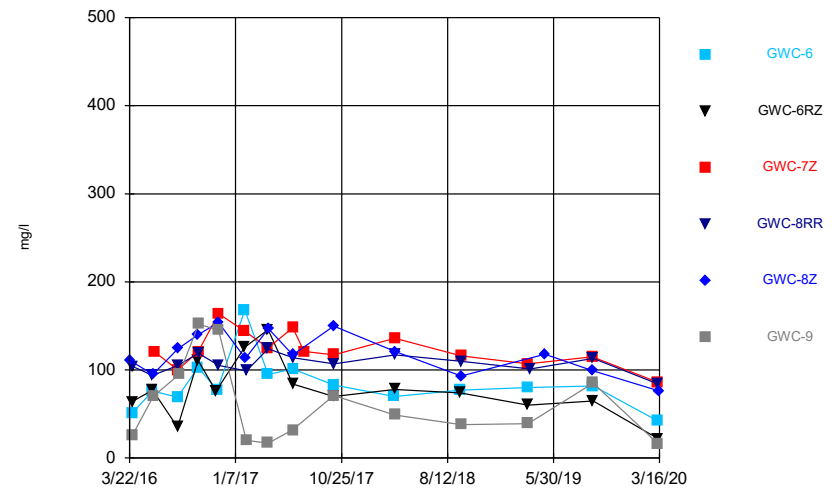
Constituent: Total Dissolved Solids Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
3/22/2016	150					
3/23/2016		259	174	<25		
3/28/2016						<25
5/19/2016	150		93			
5/20/2016		122				
5/23/2016				<25		32
7/29/2016	146	156	68	17 (J)		
8/1/2016						<25
9/22/2016			91	33		
9/23/2016	163	150				
9/26/2016						45
11/9/2016	147	87				
11/10/2016			96	41		38
1/30/2017	127					<25
1/31/2017		63	206	58		
2/22/2017					329	
3/30/2017	137	112		<25		
4/3/2017			118			
4/7/2017					295	18 (J)
6/9/2017	164		87			
6/12/2017		216		20 (J)		15 (J)
6/14/2017					237	
7/12/2017					400	
7/20/2017					203	
7/28/2017					262	
8/9/2017					195	
8/24/2017					236	
10/2/2017	137	<25	73			17 (J)
10/3/2017					224	
10/4/2017				<25		
3/16/2018	140		130			<25
3/19/2018		295		<25		
3/21/2018					237	
9/14/2018		30	103			
9/17/2018	162			32		38
9/18/2018					227	
3/19/2019			208			34
3/20/2019	175	49		30		
3/21/2019					367	
9/12/2019	174	44			200	
9/13/2019			113	19		19
3/11/2020	172	309	170	24		17
3/12/2020					247	

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
3/28/2016	46					
3/31/2016		122	135			
4/4/2016				79	135	58
5/25/2016	57					
5/26/2016		143	163	105	124	
5/27/2016						66
8/1/2016	<25					
8/3/2016			159	106		65
8/4/2016					109	
8/5/2016		143				
9/26/2016	60					
9/28/2016		160	208	148	104	
9/30/2016						60
11/11/2016	13 (J)					
11/22/2016		149	152	88	94	63
1/30/2017	<25					
2/7/2017		123	128			
2/8/2017				62	141 (J)	
2/13/2017						104 (J)
4/3/2017	100					
4/10/2017		95	186	92	114	
4/11/2017						63
6/12/2017	51					
6/14/2017		150	150			97
6/15/2017				96	153	
10/2/2017	32					
10/4/2017		140	153	78	121	74
3/16/2018	<25					
3/20/2018		93				
3/21/2018			192	111		
3/22/2018					139	54
9/18/2018	15 (J)	155	155	106	139	73
3/19/2019	48					
3/22/2019		95	140			
3/23/2019				64	148	58
9/12/2019	46					
9/17/2019		165	172	101	143	62
3/11/2020	24					
3/12/2020		63	81	96	125	64

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/28/2016						<25
4/4/2016	156	110				
4/5/2016			42	53	103	
5/25/2016						34
5/31/2016	192			70	157	
6/1/2016		121	63			
8/1/2016						25
8/4/2016	269				154	
8/9/2016			267			
9/27/2016						20 (J)
9/29/2016	288				142	
11/11/2016						41
11/23/2016				118	172	
11/28/2016	224		116			
1/31/2017						127
2/9/2017	386		212 (J)			
2/10/2017				214	237	
2/22/2017		311				
4/3/2017						69
4/11/2017		212	113	127		
4/12/2017	254				168	
6/12/2017						46
6/14/2017			120			
6/15/2017				126	176	
6/16/2017	309	262				
7/12/2017		310	153	164		
7/26/2017				129		
7/28/2017		289				
8/10/2017		288				
10/3/2017						34
10/5/2017			102			
10/6/2017		268		140	155	
10/9/2017	269					
3/19/2018						<25
3/21/2018	211					
3/22/2018			115			
3/23/2018		281		119	170	
9/17/2018						38
9/19/2018	222		114	138	181	
9/20/2018		297				
3/20/2019						66
3/22/2019		249	104	116		
3/23/2019	135					
3/25/2019					167	
9/16/2019						45
9/17/2019			86	117	179	
9/18/2019	200	281				
3/13/2020	143		59	76	169	
3/16/2020						20
3/17/2020		256				

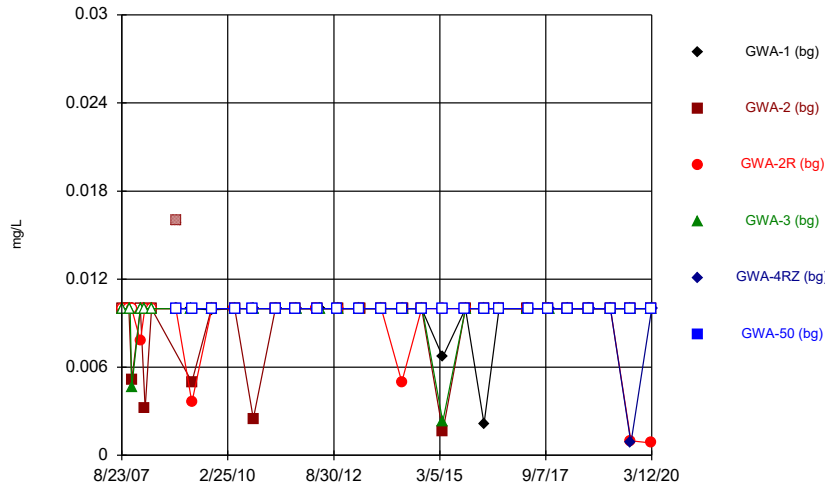
Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/7/2020 9:55 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

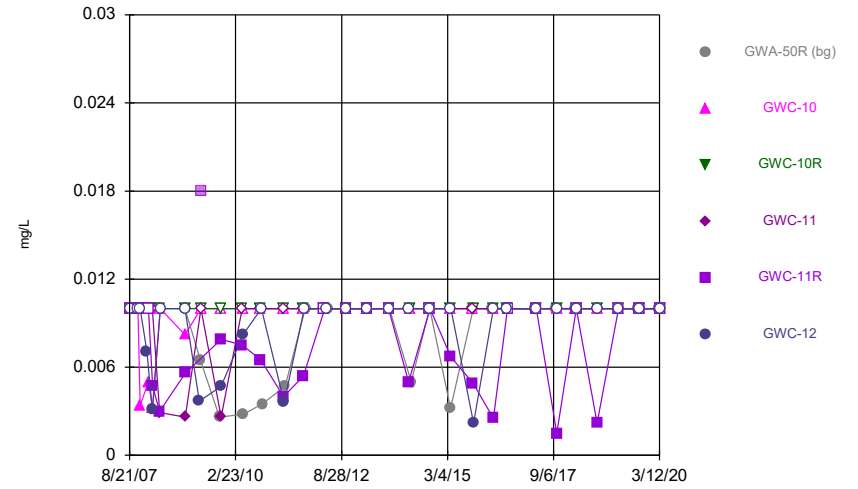
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/22/2016					111	
3/29/2016	51	64				
3/30/2016				104		26
5/24/2016	76	77		94		
5/25/2016					95	
5/26/2016						70
5/31/2016			120			
8/1/2016	69	35				
8/2/2016			100	105	124	
8/5/2016						95
9/26/2016	103	111			140	
9/27/2016			121	119		
9/28/2016						152
11/14/2016		76				
11/18/2016	77					
11/21/2016			164		154	145
11/22/2016				105		
2/1/2017	168	126	144			
2/3/2017					113	
2/6/2017				99		20 (J)
4/6/2017	95	146	125	124		17 (J)
4/7/2017					147	
6/13/2017	101	84	148		117	32
6/14/2017				114		
7/14/2017			121			
10/3/2017	83	70	117		150	71
10/4/2017				107		
3/19/2018	70					
3/20/2018		78	136		121	49
3/21/2018				117		
9/17/2018	77	74				
9/18/2018			116	110	93	38
3/21/2019	80	60	107			39
3/27/2019				101		
5/6/2019					118	
9/13/2019			115			
9/16/2019	82	65		113	99	85
3/12/2020	42	22	86	84		16
3/16/2020					76	

Time Series



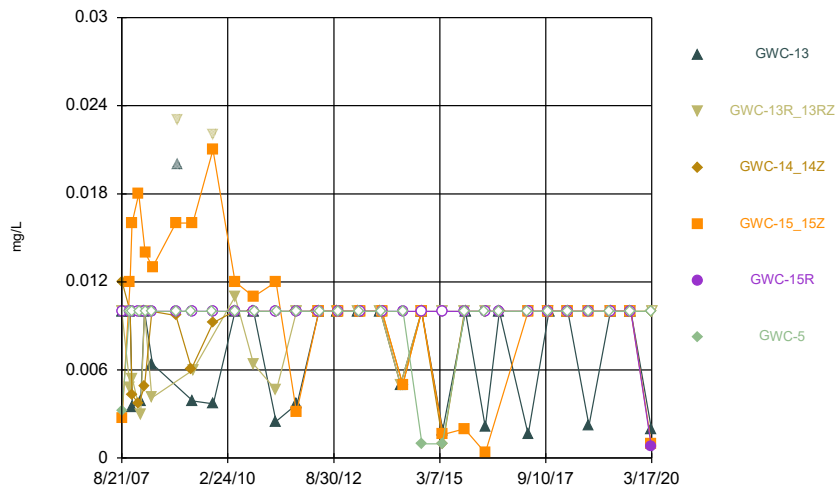
Constituent: Vanadium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



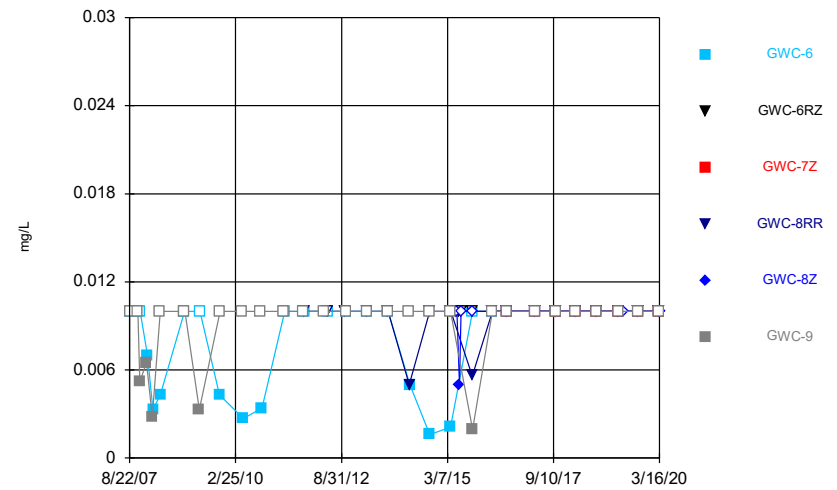
Constituent: Vanadium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Vanadium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Vanadium Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	<0.01	<0.01	<0.01	<0.01		
10/23/2007	<0.01					
10/24/2007		<0.01	<0.01			
11/2/2007				<0.01		
11/18/2007	<0.01	0.0051	<0.01	0.0046		
1/30/2008	<0.01					
1/31/2008		<0.01	0.0078	<0.01		
3/10/2008	<0.01		<0.01			
3/11/2008		0.0032		<0.01		
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
5/14/2008				<0.01		
12/4/2008		0.016 (o)	<0.01			
12/5/2008	<0.01			<0.01		
12/12/2008						<0.01
4/15/2009	<0.01			<0.01		
4/21/2009		0.005	0.0036			
4/23/2009						<0.01
10/6/2009						<0.01
10/7/2009	0.0099	<0.01				
10/8/2009			<0.01	<0.01		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						<0.01
4/28/2010				<0.01		
5/3/2010	<0.01					
9/28/2010			<0.01			
9/30/2010						<0.01
10/4/2010		0.0025				
10/6/2010				<0.01		
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011						<0.01
4/21/2011				<0.01		
4/27/2011	<0.01					
10/4/2011			<0.01			
10/5/2011		<0.01				<0.01
10/13/2011				<0.01		
10/17/2011	<0.01					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				<0.01		
5/2/2012	<0.01					
10/2/2012						<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01	<0.01		
4/9/2013						<0.01
4/11/2013			<0.01	<0.01		
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01				<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	<0.01		<0.01	<0.01		
4/10/2014			0.005 (J)			<0.01
4/11/2014	<0.01					
4/22/2014		<0.01				
4/23/2014				<0.01		
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014						<0.01
10/4/2014				<0.01		
3/30/2015	0.0067	0.0016 (J)	<0.01			<0.01
3/31/2015				0.0023 (J)		
10/11/2015						<0.01
10/12/2015				<0.01		
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	0.00214 (J)					
3/23/2016		<0.01	<0.01	<0.01		
3/28/2016						<0.01
7/29/2016	<0.01	<0.01	<0.01	<0.01		
8/1/2016						<0.01
3/30/2017	<0.01	<0.01		<0.01		
4/3/2017			<0.01			
4/7/2017					<0.01	<0.01
10/2/2017	<0.01	<0.01	<0.01			<0.01
10/3/2017					<0.01	
10/4/2017				<0.01		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		<0.01		<0.01		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			<0.01		<0.01
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		<0.01		
3/21/2019					<0.01	
9/12/2019	<0.01	<0.01 (D)			0.00084 (J)	
9/13/2019			0.001 (J)	<0.01		<0.01
3/11/2020	<0.01	<0.01	0.00084 (J)	<0.01		<0.01
3/12/2020					<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2007		<0.01	<0.01	<0.01	<0.01	<0.01
11/18/2007				<0.01	<0.01	
11/19/2007						<0.01
11/20/2007		0.0034	<0.01			
1/16/2008						0.0071
1/30/2008		0.005	<0.01	<0.01	<0.01	
3/5/2008				<0.01		0.0031
3/6/2008		0.0032	<0.01		0.0047	
5/7/2008				0.0029	0.003	
5/8/2008			<0.01			
5/12/2008		<0.01				
5/13/2008						<0.01
12/12/2008	<0.01					
12/13/2008		0.0082				<0.01
12/14/2008			<0.01	0.0026	0.0056	
4/16/2009						0.0037
4/23/2009	0.0065					
4/29/2009		<0.01	<0.01	<0.01	0.018 (o)	
10/6/2009	0.0026					
10/20/2009		<0.01				
10/21/2009			<0.01			0.0047
10/22/2009				0.0026	0.0079	
4/21/2010			<0.01	<0.01	0.0075	
4/26/2010		<0.01				
4/27/2010						0.0082
5/3/2010	0.0028					
9/28/2010			<0.01	<0.01		
9/29/2010		<0.01			0.0065	
10/5/2010						<0.01
10/11/2010	0.0035					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			0.004	
4/19/2011						0.0036
4/27/2011	0.0047					
10/4/2011			<0.01	<0.01	0.0054	
10/5/2011		<0.01				
10/12/2011						<0.01
10/19/2011	<0.01					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	<0.01					
10/2/2012	<0.01					<0.01
10/3/2012		<0.01		<0.01	<0.01	
10/8/2012			<0.01			
4/2/2013						<0.01
4/3/2013		<0.01	<0.01	<0.01	<0.01	
4/10/2013	<0.01					
10/9/2013				<0.01	<0.01	<0.01
10/15/2013		<0.01	<0.01			
10/16/2013	<0.01					

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						<0.01
4/2/2014				<0.01	0.005 (J)	
4/9/2014		<0.01	<0.01			
4/22/2014	0.005 (J)					
10/1/2014	<0.01					
10/2/2014		<0.01	<0.01	<0.01	<0.01	<0.01
3/30/2015	0.0032 (J)					
4/1/2015				<0.01	0.0067	<0.01
4/2/2015		<0.01	<0.01			
10/10/2015		<0.01				
10/11/2015	<0.01			<0.01	0.0049 (J)	
10/12/2015			<0.01			
10/14/2015						0.0022 (J)
3/28/2016	<0.01					
3/31/2016		<0.01	<0.01			
4/4/2016				<0.01	0.00251 (J)	<0.01
8/1/2016	<0.01					
8/3/2016			<0.01	<0.01		<0.01
8/4/2016					<0.01	
8/5/2016		<0.01				
4/3/2017	<0.01					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						<0.01
10/2/2017	<0.01					
10/4/2017		<0.01	<0.01	<0.01	0.0015 (J)	<0.01
3/16/2018	<0.01					
3/20/2018		<0.01				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	<0.01
9/18/2018	<0.01	<0.01	<0.01	<0.01	0.0022 (J)	<0.01
3/19/2019	<0.01					
3/22/2019		<0.01	<0.01			
3/23/2019				<0.01	<0.01	<0.01
9/12/2019	<0.01					
9/17/2019		<0.01	<0.01	<0.01	<0.01	<0.01 (D)
3/11/2020	<0.01					
3/12/2020		<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	<0.01	<0.01				
8/23/2007					<0.01	0.0032
8/24/2007			0.012	0.0027		
10/25/2007						<0.01
11/1/2007	<0.01	0.0048				
11/2/2007			<0.01	0.012	<0.01	
11/17/2007			0.0043		<0.01	
11/18/2007				0.016 (J)		
11/19/2007	0.0035	0.0054				<0.01
1/15/2008			0.0037	0.018	<0.01	
1/23/2008						<0.01
1/31/2008	0.0039	0.003				
3/5/2008	<0.01	<0.01	0.0049			
3/6/2008					<0.01	
3/10/2008				0.014		
3/11/2008						<0.01
5/7/2008		0.0041	<0.01		<0.01	
5/12/2008	0.0064					<0.01
5/13/2008				0.013		
12/2/2008			0.0097	0.016	<0.01	
12/11/2008						<0.01
12/12/2008		0.023 (o)				
12/13/2008	0.02 (o)					
4/15/2009						<0.01
4/16/2009			0.0061			
4/28/2009	0.0039			0.016	<0.01	
4/29/2009		0.006				
10/9/2009						<0.01
10/19/2009					<0.01	
10/20/2009			0.0092	0.021		
10/21/2009	0.0037	0.022 (o)				
4/20/2010			<0.01			
4/27/2010				0.012	<0.01	
4/28/2010	<0.01	0.011				
5/4/2010						<0.01
9/29/2010			<0.01			
10/4/2010					<0.01	
10/5/2010	<0.01			0.011		
10/6/2010		0.0064				
10/12/2010						<0.01
4/12/2011			<0.01			
4/18/2011					<0.01	
4/19/2011	0.0025			0.012		
4/20/2011		0.0046				
4/28/2011						<0.01
10/4/2011			<0.01			
10/12/2011		<0.01		0.0031	<0.01	
10/18/2011	0.0037					
10/19/2011						<0.01
4/4/2012			<0.01			
4/23/2012					<0.01	
4/25/2012	<0.01	<0.01		<0.01		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						<0.01
10/2/2012	<0.01	<0.01				
10/9/2012						<0.01
10/10/2012			<0.01	<0.01	<0.01	
4/2/2013	<0.01	<0.01				
4/11/2013						<0.01
4/15/2013			<0.01		<0.01	
4/16/2013				<0.01		
10/8/2013	<0.01	<0.01				
10/16/2013						<0.01
10/22/2013			<0.01	<0.01	<0.01	
4/1/2014	0.005 (J)	0.005 (J)				
4/21/2014			0.005 (J)	0.005 (J)	<0.01	
4/23/2014						<0.01
9/30/2014			<0.01	<0.01	<0.01	
10/1/2014	<0.01	<0.01				
10/3/2014						0.00097 (J)
3/31/2015		<0.01				0.00096 (J)
4/1/2015	0.0019 (J)					
4/3/2015			0.001 (J)	0.0016 (J)	<0.01	
10/6/2015				0.002 (J)		
10/7/2015			<0.01		<0.01	
10/12/2015						<0.01
10/14/2015		<0.01				
10/15/2015	<0.01					
3/28/2016						<0.01
4/4/2016	0.00211 (J)	<0.01				
4/5/2016			<0.01	0.00036 (J)	<0.01	
8/1/2016						<0.01
8/4/2016	<0.01				<0.01	
8/9/2016			<0.01			
4/3/2017						<0.01
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	0.0016 (J)				<0.01	
10/3/2017						<0.01
10/5/2017			<0.01			
10/6/2017		<0.01		<0.01	<0.01	
10/9/2017	<0.01					
3/19/2018						<0.01
3/21/2018	<0.01					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						<0.01
9/19/2018	0.0022 (J)		<0.01	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						<0.01
3/22/2019		<0.01	<0.01	<0.01		
3/23/2019	<0.01					
3/25/2019					<0.01	
9/16/2019						<0.01
9/17/2019			<0.01	<0.01	<0.01	
9/18/2019	<0.01	<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	0.002 (J)		<0.01	0.00095 (J)	0.00077 (J)	
3/16/2020						<0.01
3/17/2020		<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

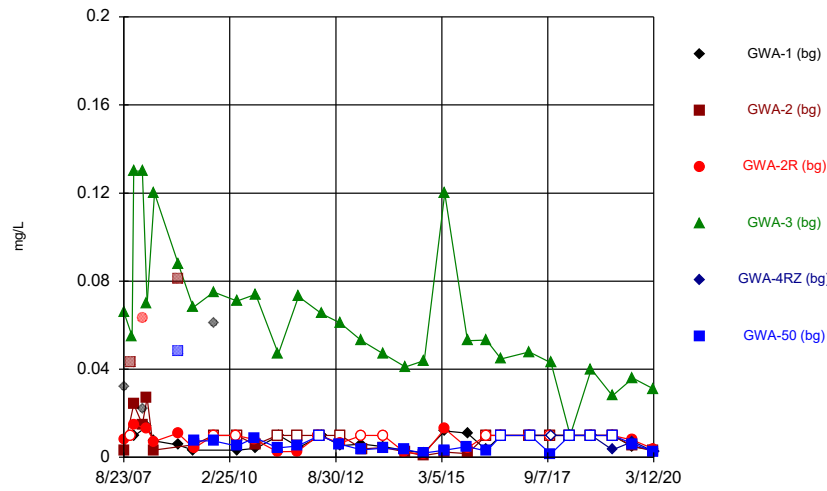
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	<0.01					
8/23/2007						<0.01
10/25/2007	<0.01					
11/1/2007						<0.01
11/19/2007						0.0052
11/20/2007	<0.01					
1/15/2008						0.0065
1/23/2008	0.007					
3/6/2008						0.0028
3/11/2008	0.0033					
5/13/2008						<0.01
5/14/2008	0.0043					
12/11/2008	<0.01					
12/12/2008						<0.01
4/16/2009						0.0033
4/23/2009	<0.01					
10/9/2009	0.0043					
10/13/2009						<0.01
4/21/2010						<0.01
5/4/2010	0.0027					
9/29/2010						<0.01
10/11/2010	0.0034					
4/13/2011						<0.01
4/26/2011	<0.01					
10/5/2011						<0.01
10/18/2011	<0.01			<0.01		
4/4/2012						<0.01
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				<0.01		
10/8/2012	<0.01					<0.01
4/8/2013				<0.01		<0.01
4/10/2013	<0.01					
10/8/2013	<0.01					
10/9/2013				<0.01		<0.01
4/9/2014						<0.01
4/10/2014				0.005 (J)		
4/14/2014	0.005 (J)					
9/30/2014						<0.01
10/2/2014				<0.01		
10/3/2014	0.0016 (J)					
4/1/2015	0.0021 (J)					
4/2/2015						<0.01
4/3/2015				<0.01		
5/26/2015		<0.01			<0.01	
6/18/2015		<0.01 (D)			0.005 (D)	
7/2/2015		<0.01			<0.01	
10/8/2015				0.0056	<0.01	
10/9/2015	<0.01	<0.01				
10/10/2015						0.00195 (D)
3/22/2016					<0.01	
3/29/2016	<0.01	<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

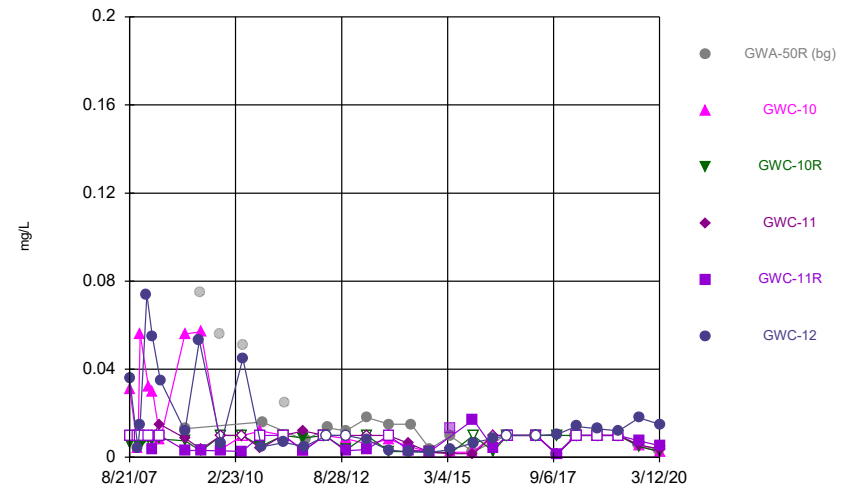
	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				<0.01		<0.01
8/1/2016	<0.01	<0.01				
8/2/2016			<0.01	<0.01	<0.01	
8/5/2016						<0.01
4/6/2017	<0.01	<0.01	<0.01	<0.01		<0.01
4/7/2017					<0.01	
10/3/2017	<0.01	<0.01	<0.01		<0.01	<0.01
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	<0.01		<0.01	<0.01
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	<0.01			<0.01
3/27/2019				<0.01		
5/6/2019					<0.01	
9/13/2019			<0.01			
9/16/2019	<0.01	<0.01		<0.01 (D)	<0.01	<0.01
3/12/2020	<0.01	<0.01	<0.01	<0.01		<0.01
3/16/2020					<0.01	

Time Series



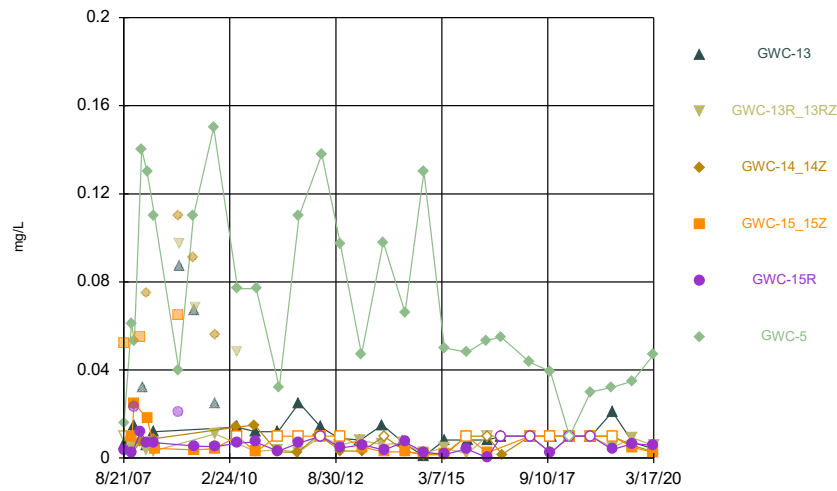
Constituent: Zinc Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



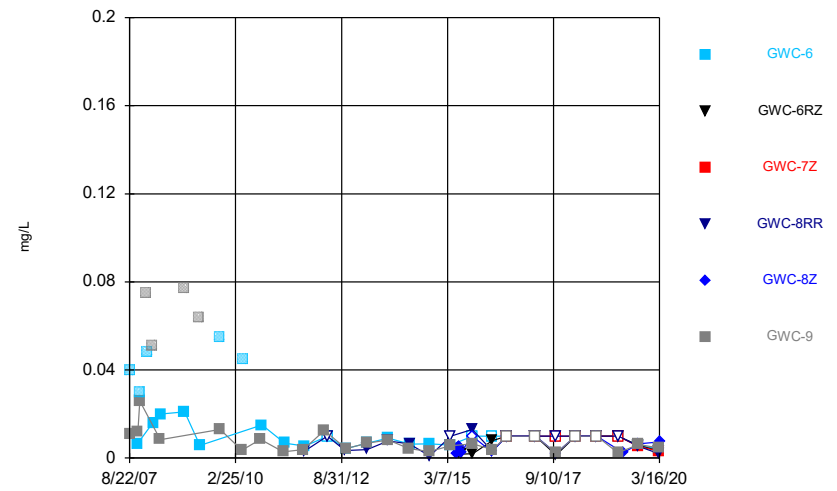
Constituent: Zinc Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Zinc Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Zinc Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
8/23/2007	0.032 (o)	0.0033	0.0079	0.066		
10/23/2007	0.0099					
10/24/2007		0.043 (o)	<0.01			
11/2/2007				0.055		
11/18/2007	0.0095 (J)	0.024	0.015	0.13		
1/30/2008	0.022 (o)					
1/31/2008		0.015	0.063 (O)	0.13		
3/10/2008	0.014		0.013 (J)			
3/11/2008		0.027		0.07		
5/6/2008		0.0032				
5/13/2008	0.0075		0.0072			
5/14/2008				0.12		
12/4/2008		0.081 (o)	0.011 (J)			
12/5/2008	0.0056 (J)			0.088		
12/12/2008						0.048 (o)
4/15/2009	0.0033			0.068		
4/21/2009		0.0057	0.0041			
4/23/2009						0.0075
10/6/2009						0.0075
10/7/2009	0.061 (o)	<0.01				
10/8/2009			<0.01	0.075		
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010						0.0051
4/28/2010				0.071		
5/3/2010	0.0033					
9/28/2010			0.0081			
9/30/2010						0.0089
10/4/2010		0.0057				
10/6/2010				0.074		
10/12/2010	0.0041					
4/12/2011			0.0025			
4/13/2011		<0.01				
4/14/2011						0.0043
4/21/2011				0.047		
4/27/2011	<0.01					
10/4/2011			0.0027			
10/5/2011		<0.01				0.0051
10/13/2011				0.073		
10/17/2011	0.0046					
4/3/2012			<0.01			
4/11/2012		<0.01				<0.01
5/1/2012				0.0652		
5/2/2012	<0.01					
10/2/2012						0.006
10/8/2012	0.0053					
10/9/2012		<0.01	0.0064	0.061		
4/9/2013						0.0034
4/11/2013			<0.01	0.053		
4/12/2013	0.006					
4/15/2013		0.0038				
10/15/2013		0.0044				0.0042

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-3 (bg)	GWA-4RZ (bg)	GWA-50 (bg)
10/16/2013	0.0048		<0.01	0.047		
4/10/2014			0.0026			0.0035
4/11/2014	0.0033					
4/22/2014		0.0025 (J)				
4/23/2014				0.041		
9/30/2014	0.002 (J)	0.00076 (J)	0.0012 (J)			
10/1/2014						0.0019 (J)
10/4/2014				0.044 (V)		
3/30/2015	0.012	0.0024 (J)	0.013			0.0032
3/31/2015				0.12		
10/11/2015						0.0048
10/12/2015				0.053		
10/13/2015	0.011	0.0017 (J)	0.0043			
3/22/2016	0.00346 (J)					
3/23/2016		<0.01	<0.01	0.0532		
3/28/2016						0.00282 (J)
7/29/2016	<0.01	<0.01	<0.01	0.0446		
8/1/2016						<0.01
3/30/2017	<0.01	<0.01		0.0479		
4/3/2017			<0.01			
4/7/2017					<0.01	<0.01
10/2/2017	<0.01	<0.01	<0.01			0.0015 (J)
10/3/2017					<0.01	
10/4/2017				0.0429		
3/16/2018	<0.01		<0.01			<0.01
3/19/2018		<0.01		<0.01		
3/21/2018					<0.01	
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)			0.04		<0.01
9/18/2018					<0.01	
3/19/2019			<0.01			<0.01
3/20/2019	<0.01	<0.01		0.028		
3/21/2019					0.0034 (J)	
9/12/2019	0.0047 (J)	0.00505 (JD)			0.0072 (J)	
9/13/2019			0.0078 (J)	0.036		0.0061 (J)
3/11/2020	0.0035 (J)	0.0028 (J)	0.0038 (J)	0.031		0.0025 (J)
3/12/2020					0.0027 (J)	

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
8/21/2007		0.031	0.0066	<0.01	<0.01	0.036
11/1/2007		0.0041	0.0086	<0.01	<0.01	0.0041
11/18/2007				<0.01	<0.01	
11/19/2007						0.015
11/20/2007		0.056	0.005			
1/16/2008						0.074
1/30/2008		0.032	0.0084	<0.01	<0.01	
3/5/2008				<0.01		0.055
3/6/2008		0.03	0.0073		0.0038	
5/7/2008				0.015	<0.01	
5/8/2008			0.0084			
5/12/2008		0.008				
5/13/2008						0.035
12/12/2008	0.013 (J)					
12/13/2008		0.056				0.012 (J)
12/14/2008			0.0075 (J)	0.0086 (J)	0.0031 (J)	
4/16/2009						0.053
4/23/2009	0.075 (o)					
4/29/2009		0.057	0.0028	0.0037	0.0031	
10/6/2009	0.056 (o)					
10/20/2009		0.0037				
10/21/2009			<0.01			0.0063
10/22/2009				<0.01	0.0029	
4/21/2010			<0.01	<0.01	0.0027	
4/26/2010		<0.01				
4/27/2010						0.045
5/3/2010	0.051 (o)					
9/28/2010			0.005	0.0042		
9/29/2010		0.012			<0.01	
10/5/2010						0.0047
10/11/2010	0.016					
4/12/2011			<0.01	<0.01		
4/13/2011		<0.01			<0.01	
4/19/2011						0.0068
4/27/2011	0.025 (o)					
10/4/2011			0.0088	0.012	0.003	
10/5/2011		0.0031				
10/12/2011						0.0048
10/19/2011	0.0078					
4/3/2012			<0.01	<0.01		
4/4/2012		<0.01			<0.01	
4/24/2012						<0.01
5/1/2012	0.0134					
10/2/2012	0.012					<0.01
10/3/2012		0.0085		<0.01	0.0029	
10/8/2012			0.0034			
4/2/2013						0.0081
4/3/2013		0.0061	<0.01	<0.01	0.0035	
4/10/2013	0.018					
10/9/2013				<0.01	<0.01	0.0032
10/15/2013		0.008	0.0027			
10/16/2013	0.015					

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R (bg)	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12
4/1/2014						0.0025 (J)
4/2/2014				0.0063	0.0033	
4/9/2014		0.0048	0.0025 (J)			
4/22/2014	0.015					
10/1/2014	0.0038					
10/2/2014		0.0023 (JV)	0.0027 (V)	0.0023 (J)	0.0027	0.0023 (J)
3/30/2015	0.0097					
4/1/2015				0.0017 (J)	0.013 (O)	0.0035
4/2/2015		0.0023 (J)	0.002 (J)			
10/10/2015		0.0024 (J)				
10/11/2015	0.0024 (J)			0.0016 (J)	0.017	
10/12/2015			<0.01			
10/14/2015						0.0066
3/28/2016	0.00703 (J)					
3/31/2016		<0.01	0.00266 (J)			
4/4/2016				<0.01	0.00419 (J)	0.00858 (J)
8/1/2016	<0.01					
8/3/2016			<0.01	<0.01		<0.01
8/4/2016					<0.01	
8/5/2016		<0.01				
4/3/2017	<0.01					
4/10/2017		<0.01	<0.01	<0.01	<0.01	
4/11/2017						<0.01
10/2/2017	0.0016 (J)					
10/4/2017		0.0012 (J)	<0.01	0.0014 (J)	0.0014 (J)	0.0104
3/16/2018	<0.01					
3/20/2018		<0.01				
3/21/2018			<0.01	<0.01		
3/22/2018					<0.01	0.014
9/18/2018	<0.01	<0.01	<0.01	<0.01	<0.01	0.013
3/19/2019	<0.01					
3/22/2019		<0.01	<0.01			
3/23/2019				<0.01	<0.01	0.012
9/12/2019	0.0058 (J)					
9/17/2019		0.0052 (J)	0.0048 (J)	0.0056 (J)	0.0075 (J)	0.018 (D)
3/11/2020	0.0033 (J)					
3/12/2020		0.0024 (J)	0.0027 (J)	0.0038 (J)	0.0053 (J)	0.015

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
8/21/2007	0.0064	<0.01				
8/23/2007					0.0038	0.016
8/24/2007			0.0036 (J)	0.052 (o)		
10/25/2007						0.061
11/1/2007	<0.01	0.0038				
11/2/2007			0.0026 (J)	0.01 (J)	0.0025	
11/17/2007			0.024 (o)		0.023 (O)	
11/18/2007				0.025 (J)		
11/19/2007	0.015	0.0055				0.053
1/15/2008			0.0074	0.055 (o)	0.012	
1/23/2008						0.14
1/31/2008	0.032 (o)	0.0063				
3/5/2008	0.0061	0.0037	0.075 (o)			
3/6/2008					0.0069	
3/10/2008				0.018		
3/11/2008						0.13
5/7/2008		0.0033	0.0088		0.007	
5/12/2008	0.012					0.11
5/13/2008				0.0044		
12/2/2008			0.11 (o)	0.065 (o)	0.021 (O)	
12/11/2008						0.04 (J)
12/12/2008		0.097 (O)				
12/13/2008	0.087 (o)					
4/15/2009						0.11
4/16/2009			0.091 (o)			
4/28/2009	0.067 (o)			0.0037 (J)	0.0055	
4/29/2009		0.068 (O)				
10/9/2009						0.15
10/19/2009					0.0051	
10/20/2009			0.056 (o)	0.0043		
10/21/2009	0.025 (o)	0.011				
4/20/2010			0.014			
4/27/2010				<0.01	0.0068	
4/28/2010	0.014	0.048 (O)				
5/4/2010						0.077
9/29/2010			0.015			
10/4/2010					0.0074	
10/5/2010	0.012			0.0028		
10/6/2010		0.003				
10/12/2010						0.077
4/12/2011			0.0028			
4/18/2011					0.0031	
4/19/2011	0.012			<0.01		
4/20/2011		0.0038				
4/28/2011						0.032
10/4/2011			0.0025			
10/12/2011		0.0027		<0.01	0.0067	
10/18/2011	0.025					
10/19/2011						0.11
4/4/2012			0.0105			
4/23/2012					<0.01	
4/25/2012	0.014	<0.01		<0.01		

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Date	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
5/2/2012						0.138
10/2/2012	0.0089	0.0059				
10/9/2012						0.097
10/10/2012			0.0033	<0.01	0.0046	
4/2/2013	0.0082	0.008				
4/11/2013						0.047
4/15/2013			0.0031		0.006	
4/16/2013				0.005		
10/8/2013	0.015	0.0062				
10/16/2013						0.098
10/22/2013			<0.01	0.0028	0.0037	
4/1/2014	0.0074	0.0067				
4/21/2014			0.0032	0.0028	0.0073	
4/23/2014						0.066
9/30/2014			0.0015 (J)	0.0018 (J)	0.0027	
10/1/2014	0.00077 (J)	0.0024 (J)				
10/3/2014						0.13 (V)
3/31/2015		0.0046				0.05
4/1/2015	0.0082					
4/3/2015			0.0015 (J)	0.0021 (J)	0.0017 (J)	
10/6/2015				<0.01		
10/7/2015			<0.01		0.0042	
10/12/2015						0.048
10/14/2015		0.002 (J)				
10/15/2015	0.0082					
3/28/2016						0.0534
4/4/2016	0.00818 (J)	<0.01				
4/5/2016			<0.01	0.00233 (J)	0.000194 (J)	
8/1/2016						0.055
8/4/2016	<0.01				<0.01	
8/9/2016			0.0016 (J)			
4/3/2017						0.0436
4/11/2017		<0.01	<0.01	<0.01		
4/12/2017	<0.01				<0.01	
10/3/2017						0.0393
10/5/2017			0.0024 (J)			
10/6/2017		<0.01		<0.01	0.0024 (J)	
10/9/2017	<0.01					
3/19/2018						<0.01
3/21/2018	<0.01					
3/22/2018			<0.01			
3/23/2018		<0.01		<0.01	<0.01	
9/17/2018						0.03
9/19/2018	<0.01		<0.01	<0.01	<0.01	
9/20/2018		<0.01				
3/20/2019						0.032
3/22/2019		0.0048 (J)	<0.01	<0.01		
3/23/2019	0.021					
3/25/2019					0.0039 (J)	
9/16/2019						0.035
9/17/2019			0.0057 (X)	0.0048 (X)	0.0066 (J)	
9/18/2019	0.007 (J)	0.0091 (X)				

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13R_13RZ	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-5
3/13/2020	0.0043 (J)		0.0028 (J)	0.0026 (J)	0.0057 (J)	
3/16/2020						0.047
3/17/2020		0.0057 (J)				

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
8/22/2007	0.04 (o)					
8/23/2007						0.011
10/25/2007	0.0062					
11/1/2007						0.012
11/19/2007						0.026 (J)
11/20/2007	0.03 (o)					
1/15/2008						0.075 (o)
1/23/2008	0.048 (o)					
3/6/2008						0.051 (o)
3/11/2008	0.016					
5/13/2008						0.0084
5/14/2008	0.02					
12/11/2008	0.021					
12/12/2008						0.077 (o)
4/16/2009						0.064 (o)
4/23/2009	0.0058 (J)					
10/9/2009	0.055 (o)					
10/13/2009						0.013
4/21/2010						0.0035
5/4/2010	0.045 (o)					
9/29/2010						0.0085
10/11/2010	0.015					
4/13/2011						0.0028
4/26/2011	0.0067					
10/5/2011						0.0038
10/18/2011	0.0055			0.0032		
4/4/2012						0.0126
4/30/2012				<0.01		
5/2/2012	<0.01					
10/3/2012				0.0034		
10/8/2012	0.0043					0.0043
4/8/2013				0.0039		0.0068
4/10/2013	0.0067					
10/8/2013	0.0091					
10/9/2013				0.0078		0.0082
4/9/2014						0.0043
4/10/2014				0.0064		
4/14/2014	0.0063					
9/30/2014						0.0029
10/2/2014				0.0009 (JV)		
10/3/2014	0.0065 (V)					
4/1/2015	0.0059					
4/2/2015						0.0056
4/3/2015				<0.01		
5/26/2015		0.0035			0.0017 (J)	
6/18/2015		0.0025 (D)			0.0052 (D)	
7/2/2015		0.0018 (J)			0.0027	
10/8/2015				0.013	<0.01	
10/9/2015	<0.01	0.0019 (J)				
10/10/2015						0.0065 (D)
3/22/2016					0.00302 (J)	
3/29/2016	<0.01	0.00786 (J)				

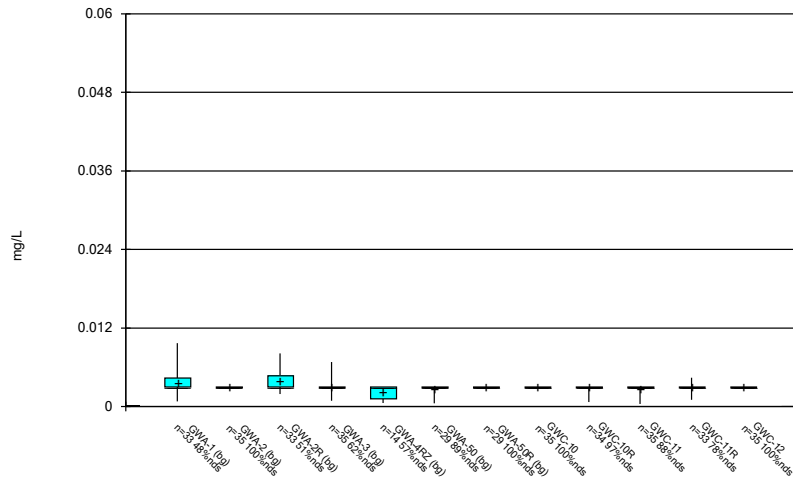
Time Series

Constituent: Zinc (mg/L) Analysis Run 4/7/2020 9:55 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9
3/30/2016				0.00308 (J)		0.00388 (J)
8/1/2016	<0.01	<0.01				
8/2/2016			<0.01	<0.01	<0.01	
8/5/2016						<0.01
4/6/2017	<0.01	<0.01	<0.01	<0.01		<0.01
4/7/2017					<0.01	
10/3/2017	<0.01	0.0014 (J)	<0.01		0.0022 (J)	0.0023 (J)
10/4/2017				<0.01		
3/19/2018	<0.01					
3/20/2018		<0.01	<0.01		<0.01	<0.01
3/21/2018				<0.01		
9/17/2018	<0.01	<0.01				
9/18/2018			<0.01	<0.01	<0.01	<0.01 (D)
3/21/2019	<0.01	<0.01	<0.01			0.0024 (J)
3/27/2019				<0.01		
5/6/2019					0.0024 (J)	
9/13/2019			0.0053 (J)			
9/16/2019	0.0058 (J)	0.0057 (J)		0.00525 (JD)	0.0065 (J)	0.0062 (J)
3/12/2020	0.0042 (J)	0.0032 (J)	0.0031 (J)	0.002 (J)		0.0045 (J)
3/16/2020					0.0073 (J)	

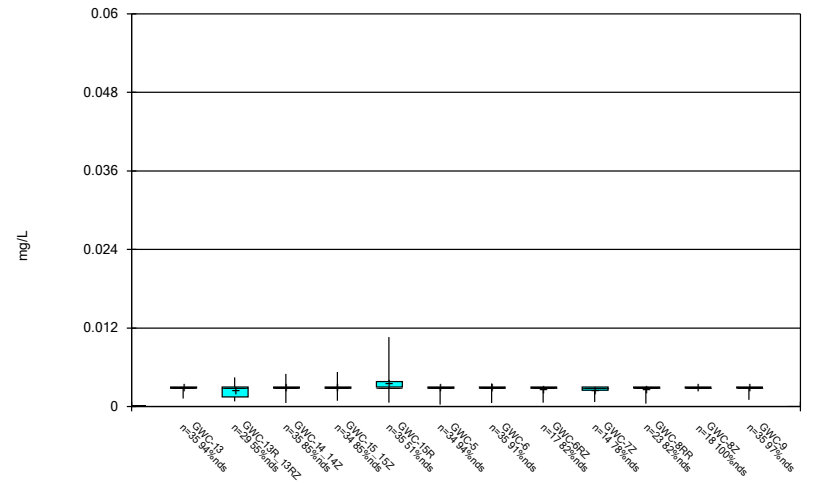
FIGURE B.

Box & Whiskers Plot



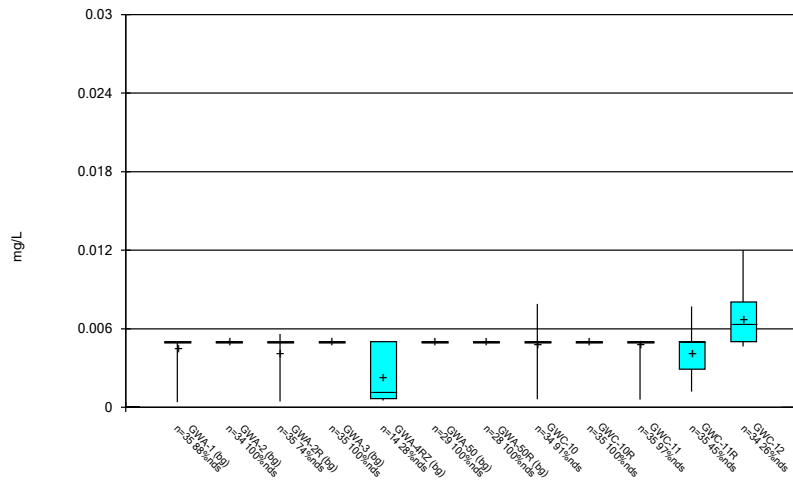
Constituent: Antimony Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



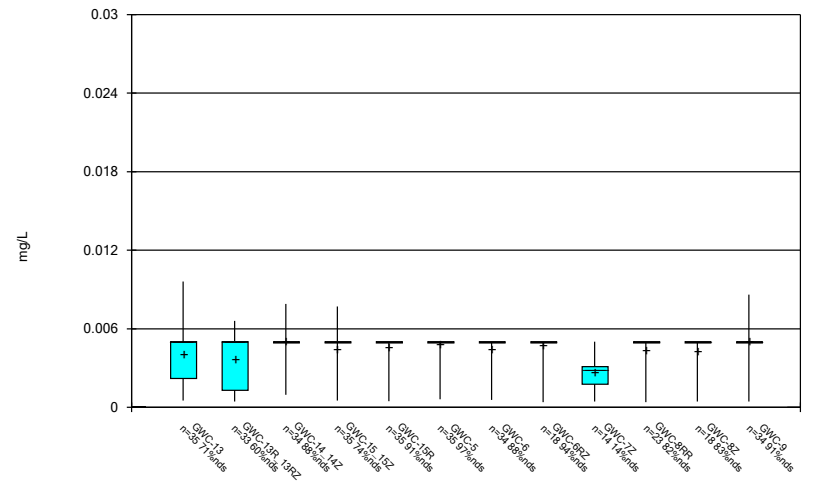
Constituent: Antimony Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



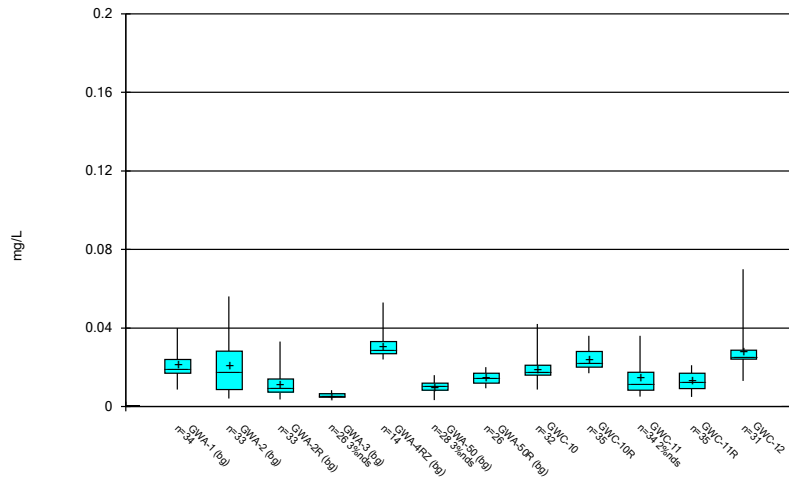
Constituent: Arsenic Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



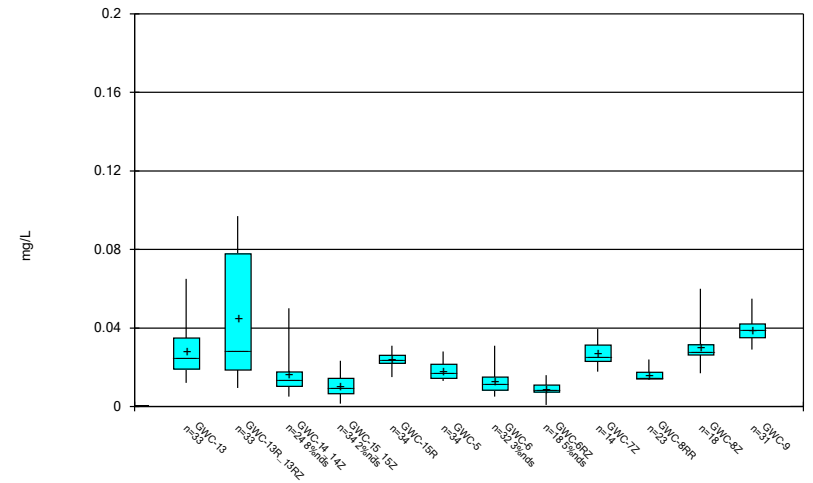
Constituent: Arsenic Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



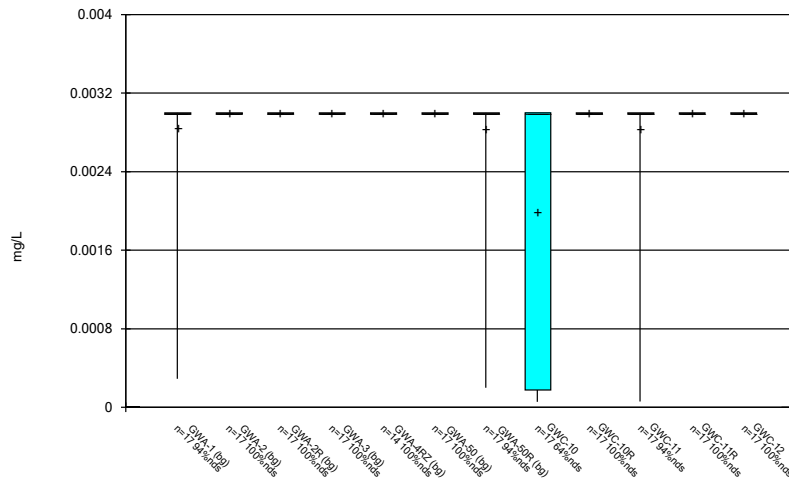
Constituent: Barium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



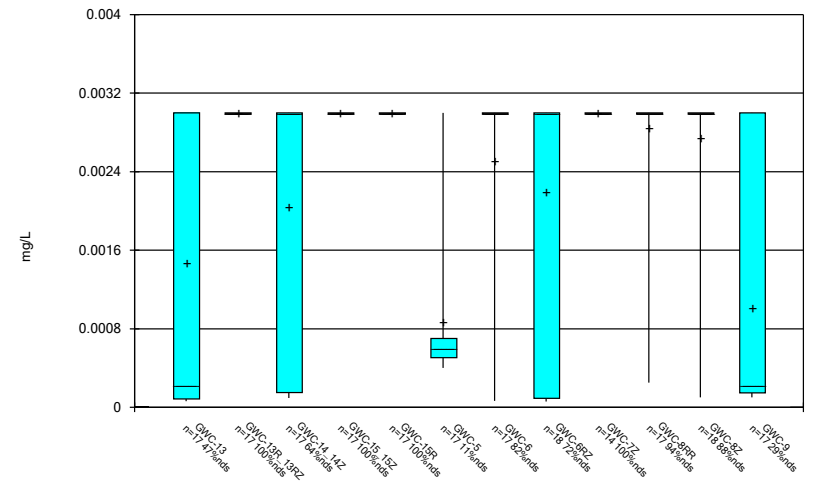
Constituent: Barium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



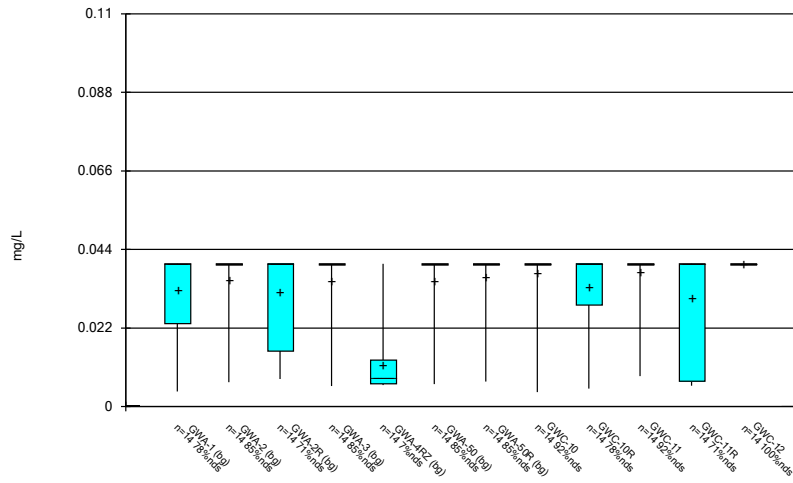
Constituent: Beryllium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



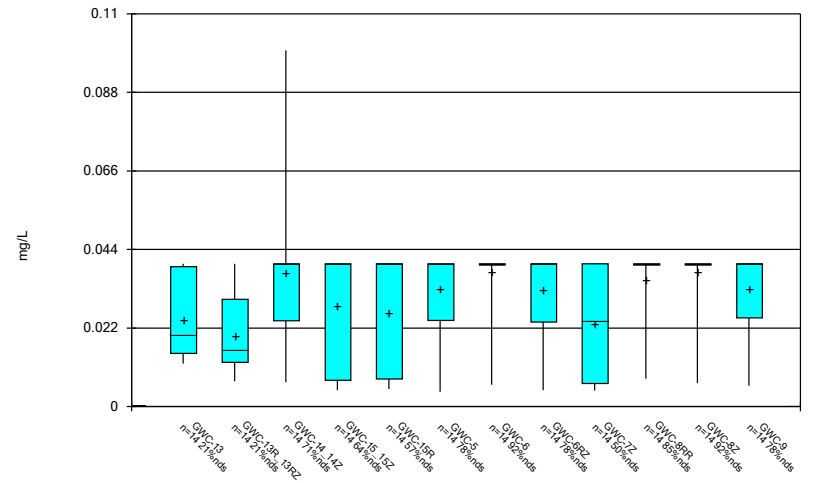
Constituent: Beryllium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



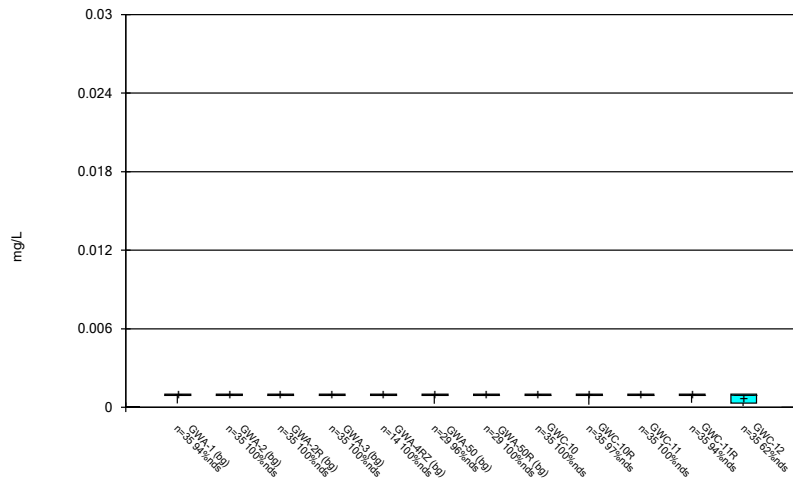
Constituent: Boron Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



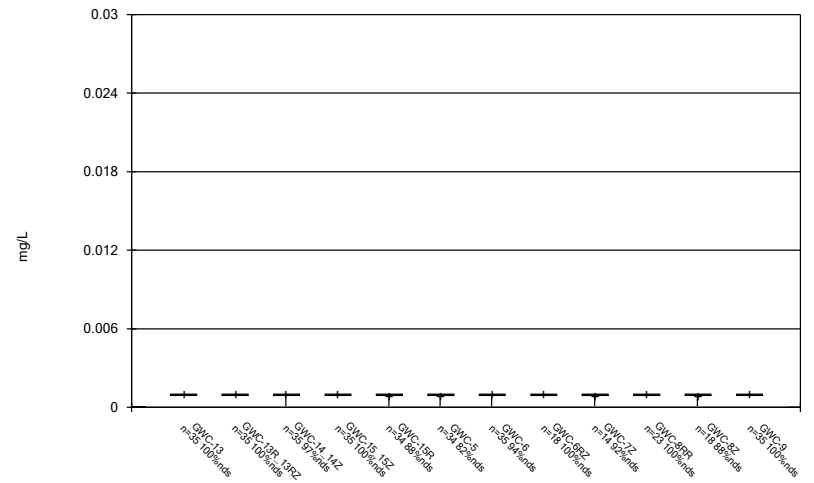
Constituent: Boron Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



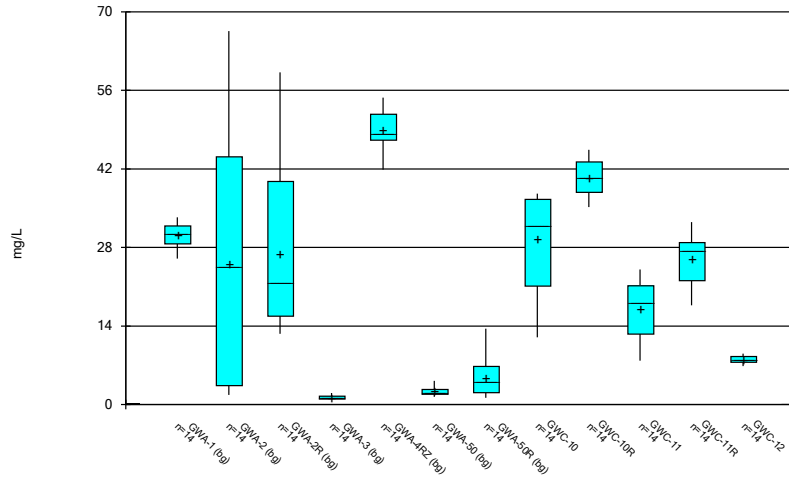
Constituent: Cadmium Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



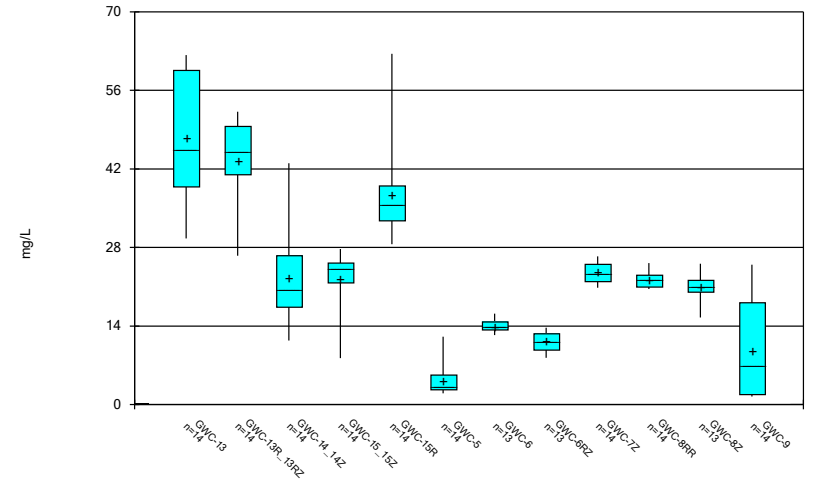
Constituent: Cadmium Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



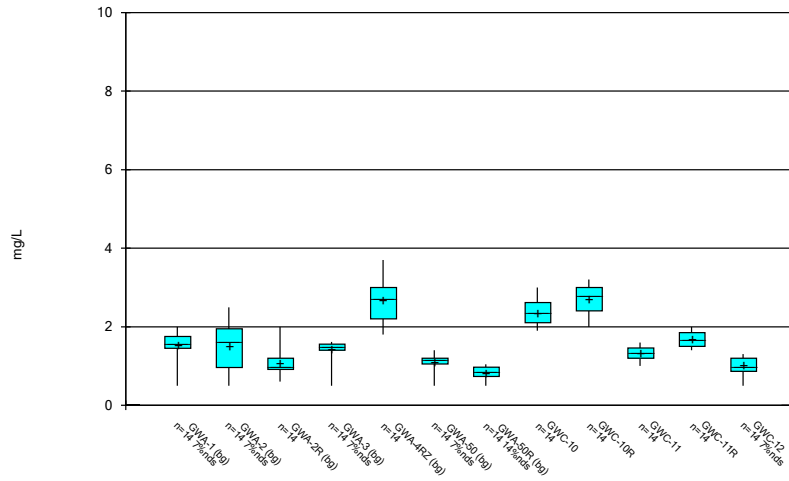
Constituent: Calcium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



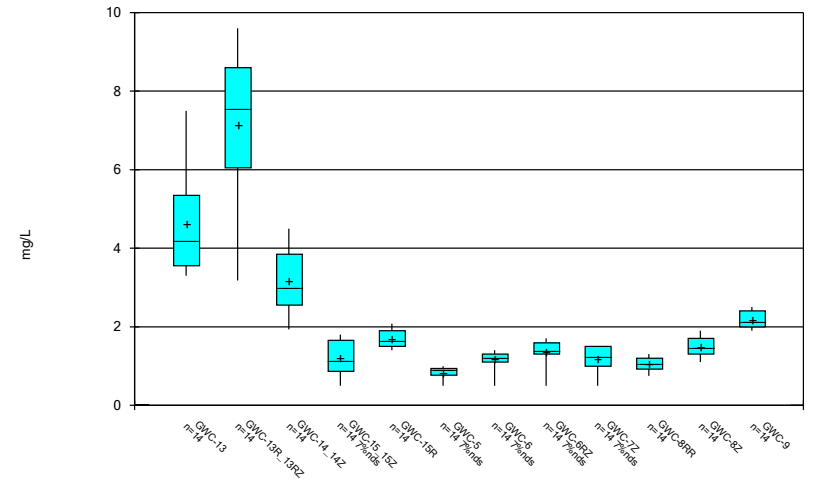
Constituent: Calcium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



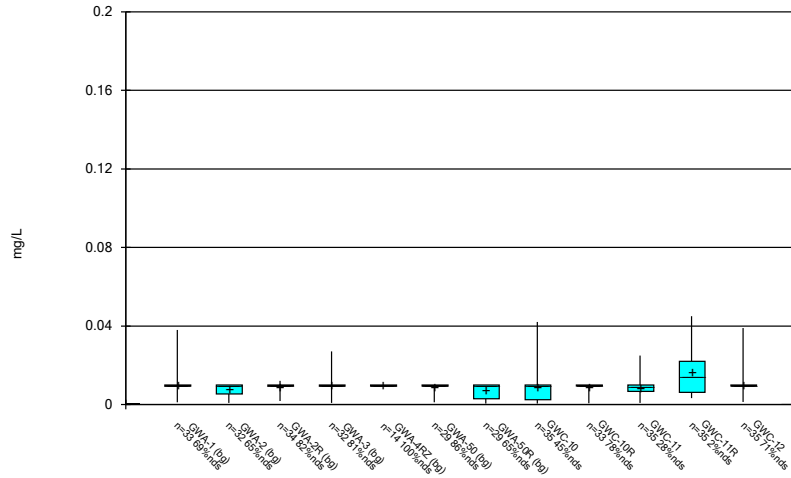
Constituent: Chloride Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



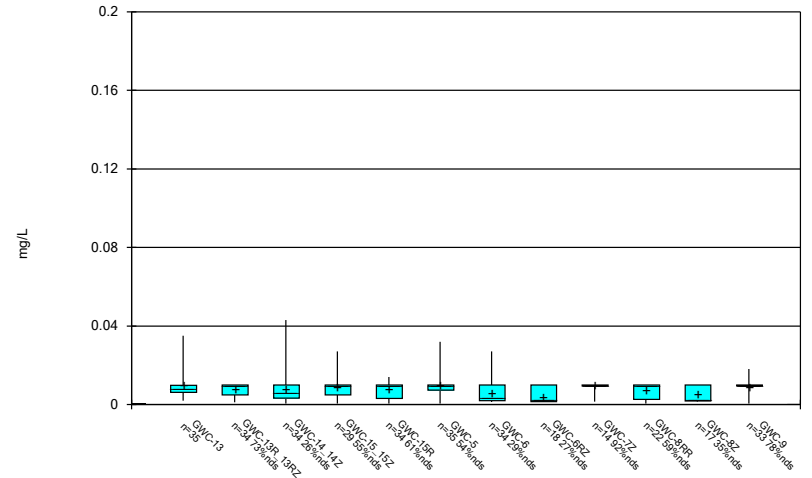
Constituent: Chloride Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



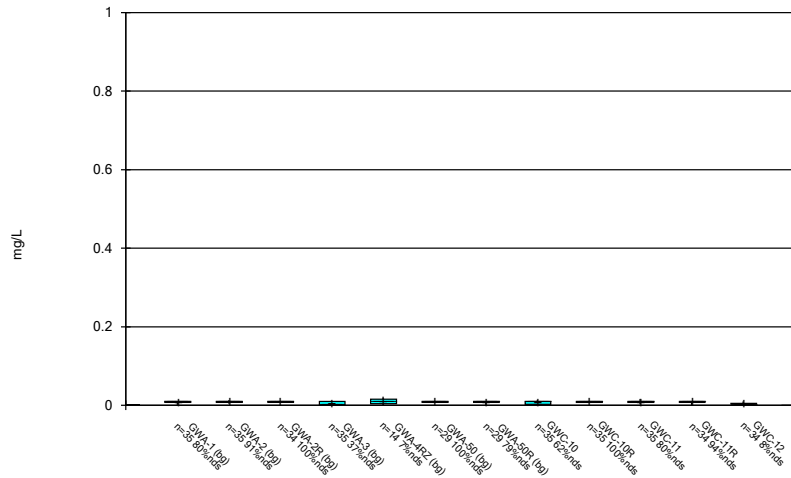
Constituent: Chromium Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



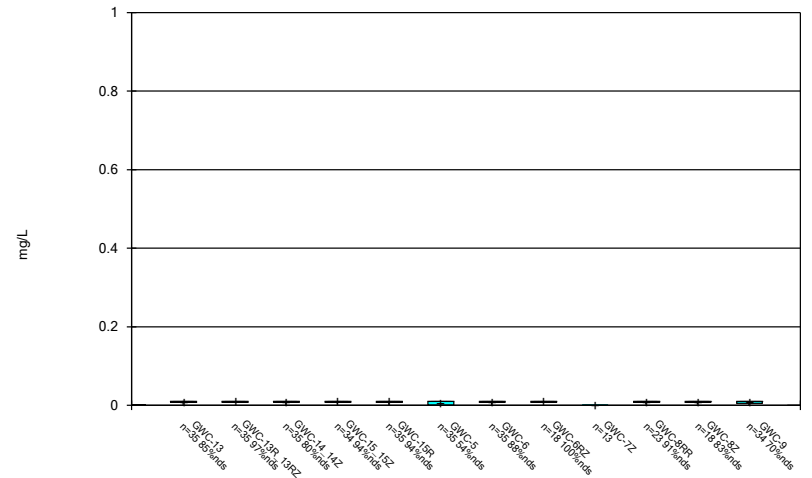
Constituent: Chromium Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



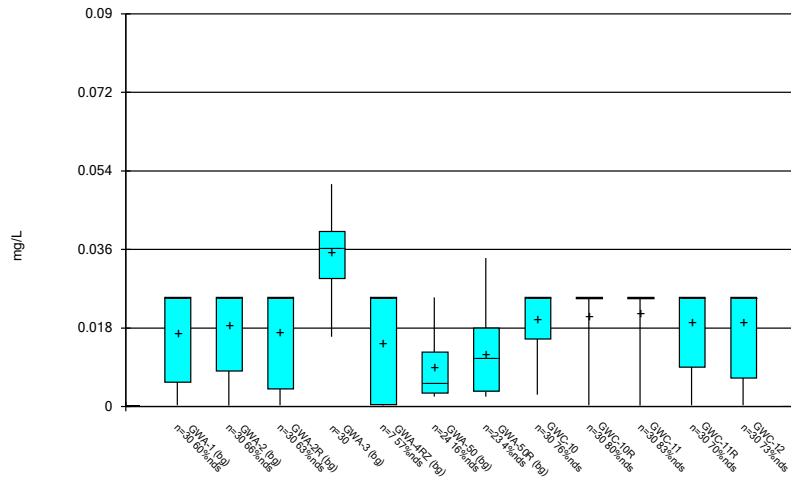
Constituent: Cobalt Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



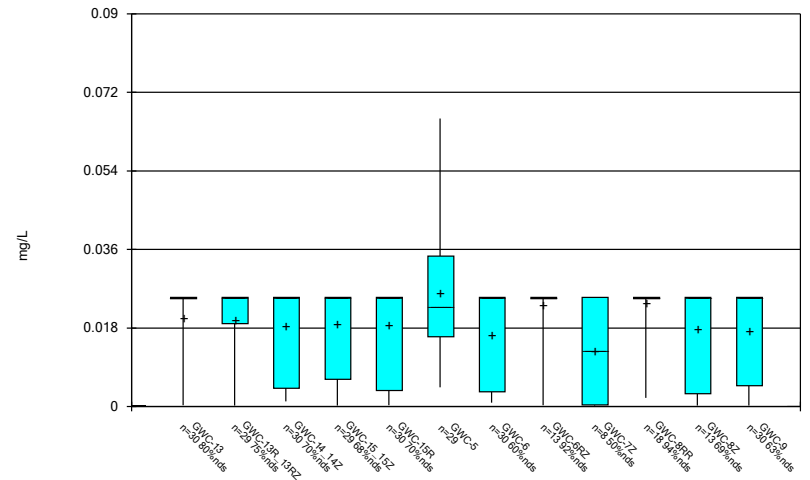
Constituent: Cobalt Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



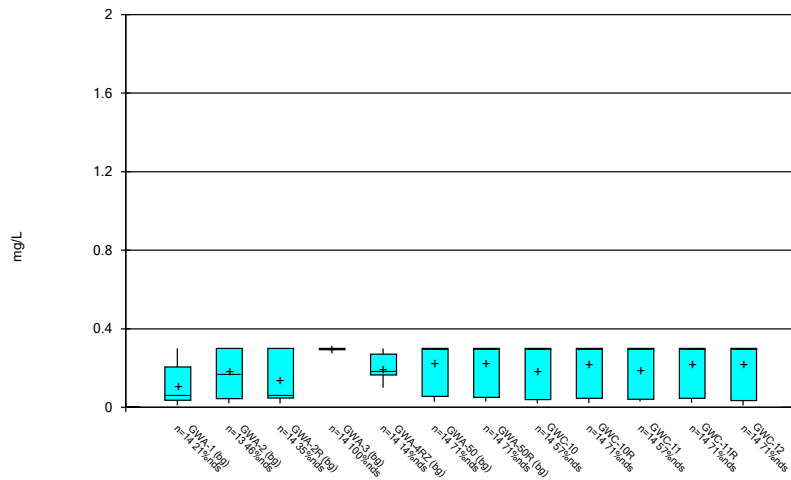
Constituent: Copper Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



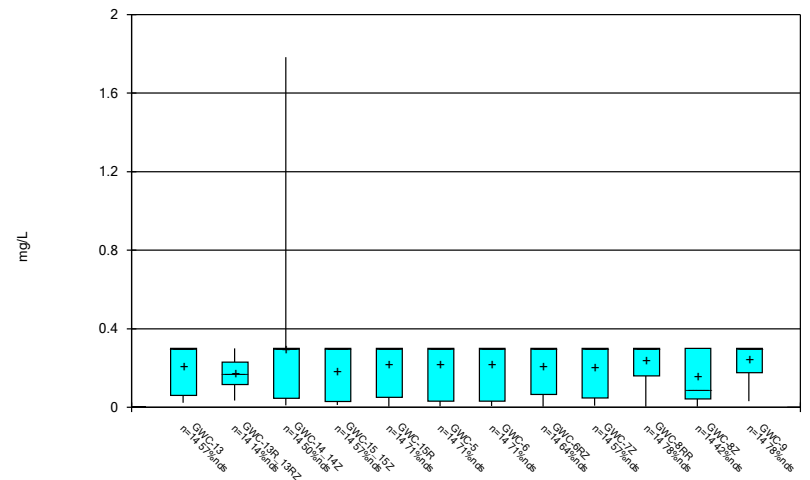
Constituent: Copper Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



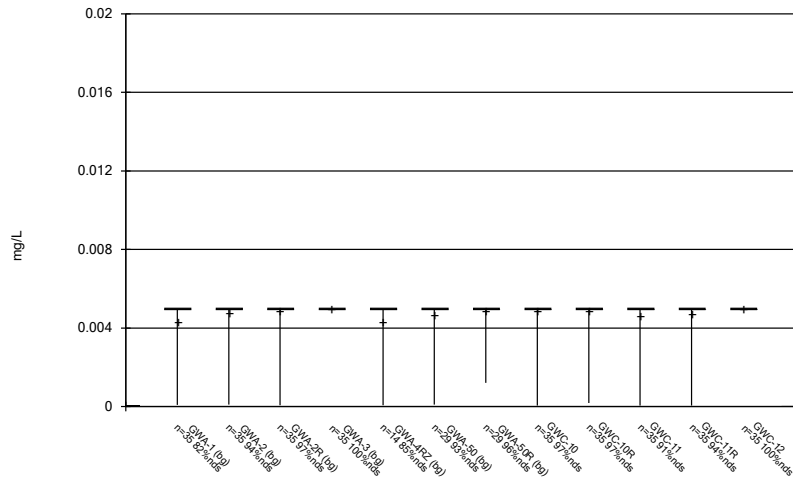
Constituent: Fluoride Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



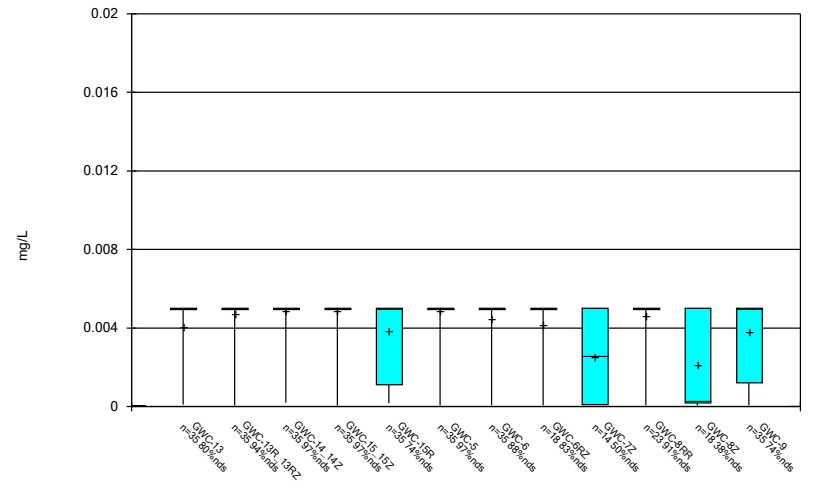
Constituent: Fluoride Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



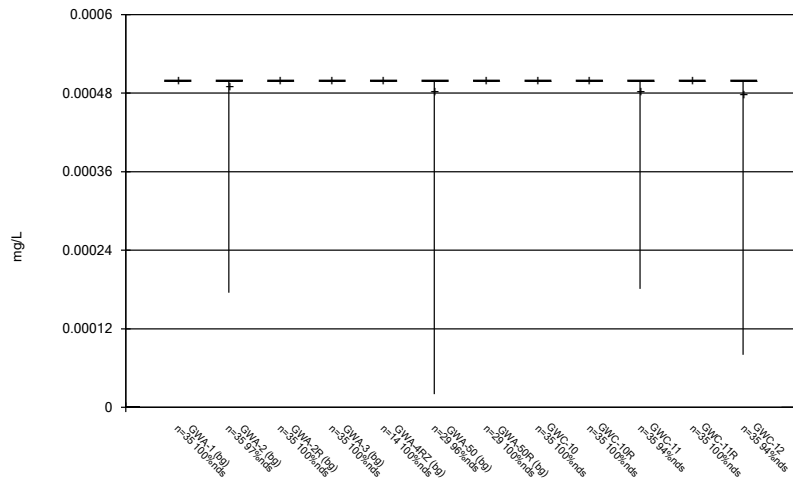
Constituent: Lead Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



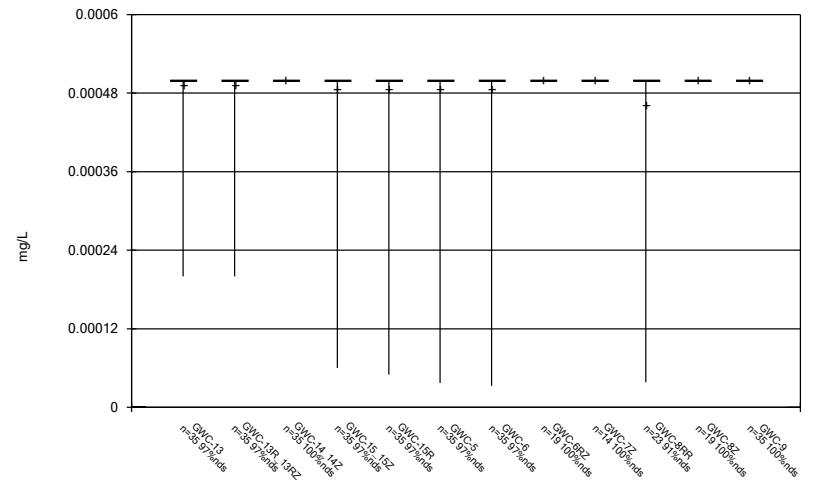
Constituent: Lead Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



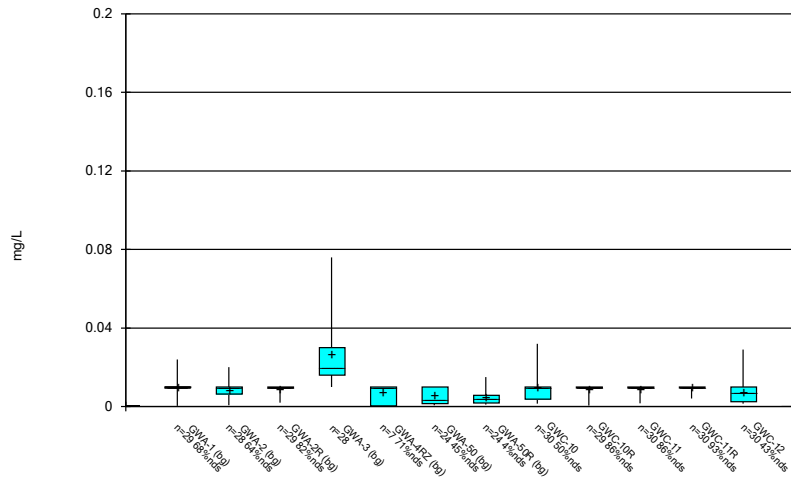
Constituent: Mercury Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



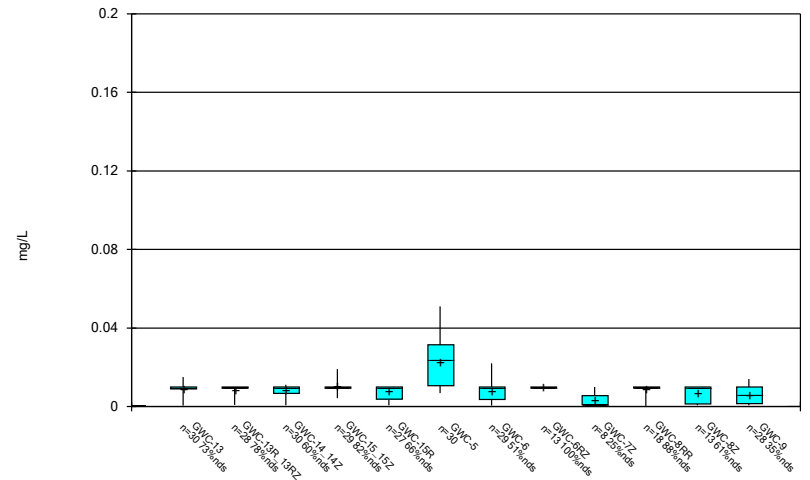
Constituent: Mercury Analysis Run 4/7/2020 10:02 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



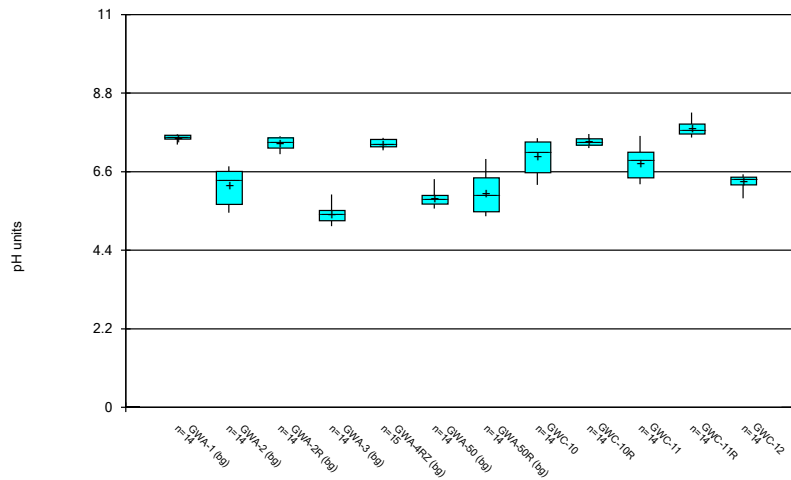
Constituent: Nickel Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



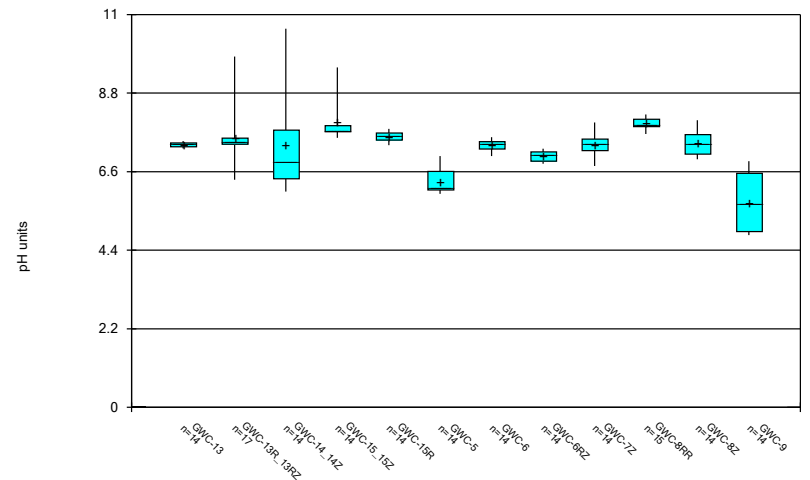
Constituent: Nickel Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



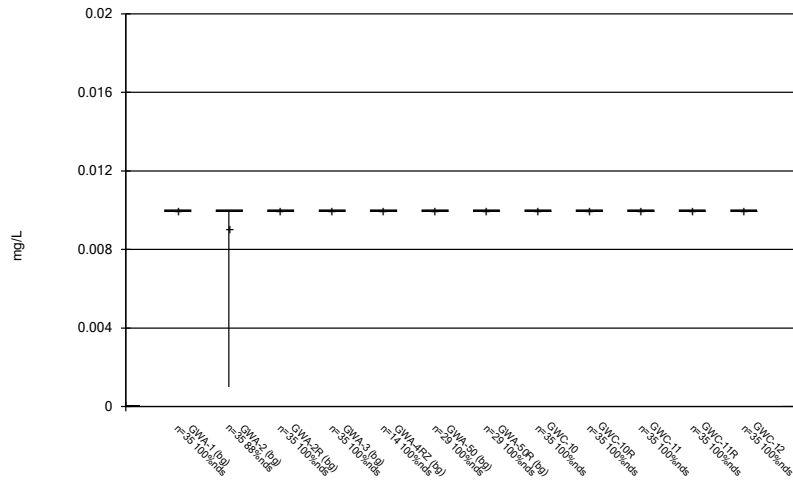
Constituent: pH Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



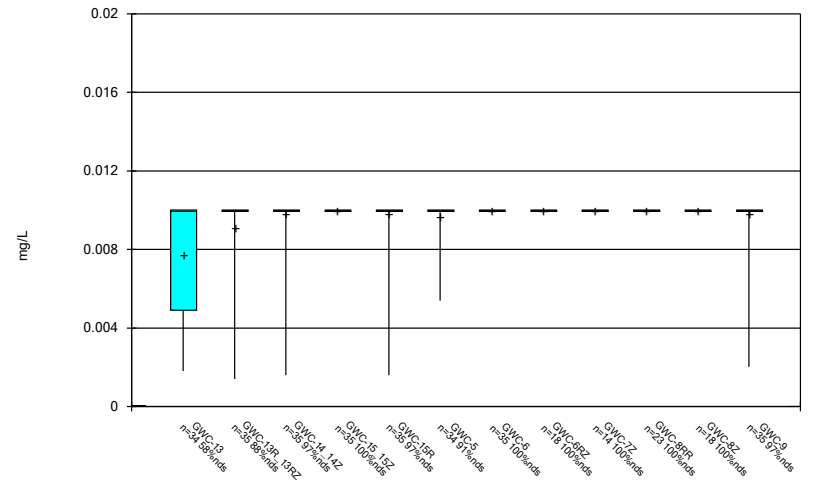
Constituent: pH Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



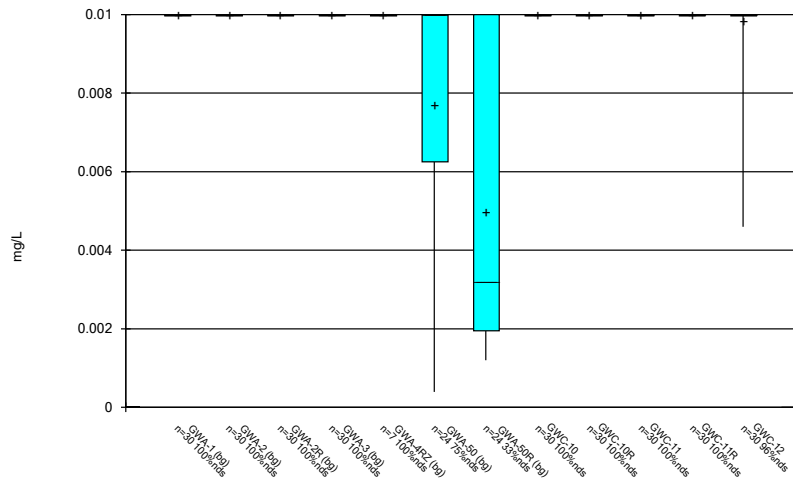
Constituent: Selenium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



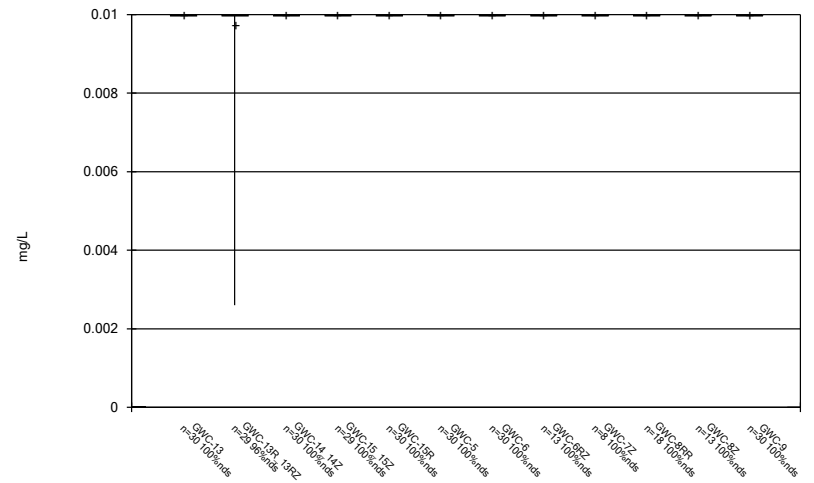
Constituent: Selenium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



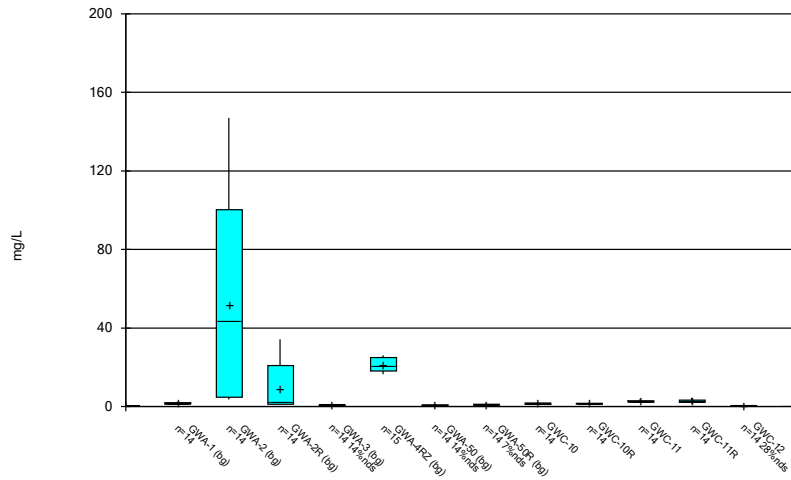
Constituent: Silver Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



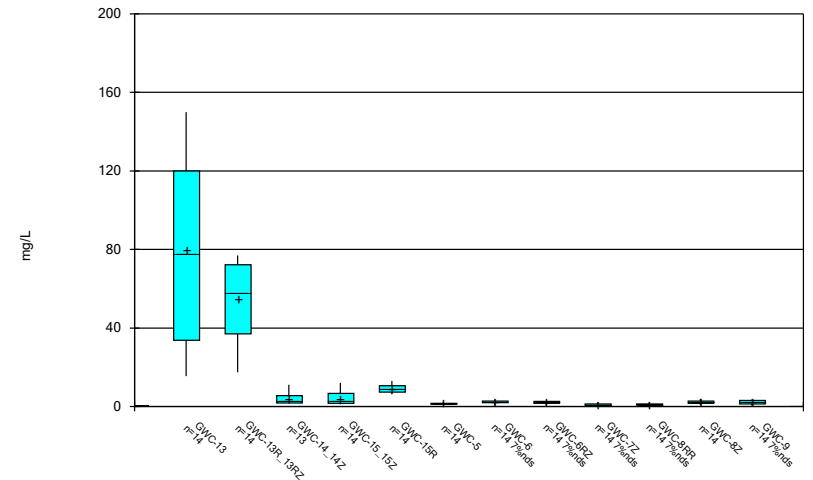
Constituent: Silver Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



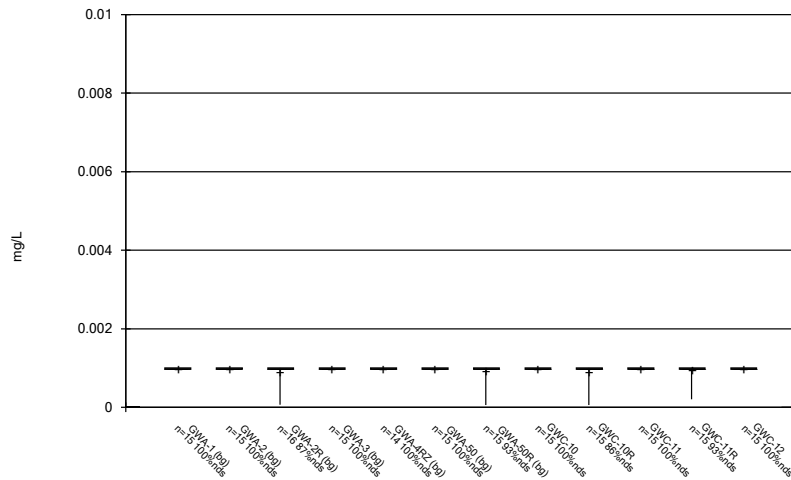
Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



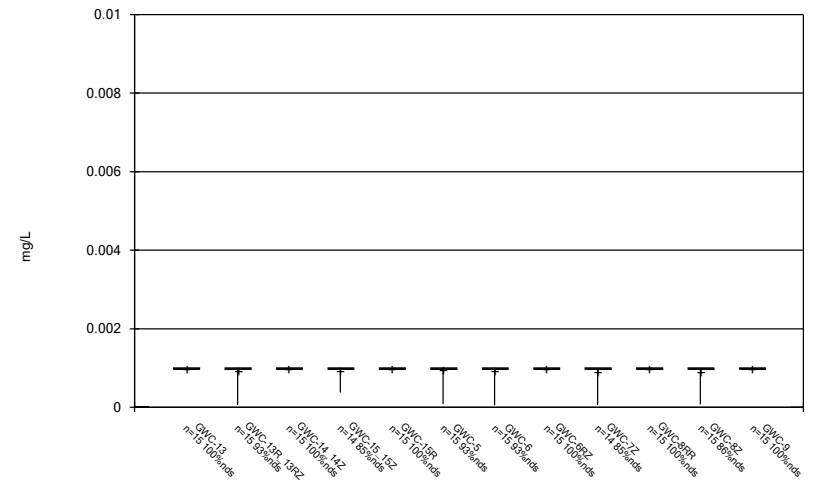
Constituent: Sulfate, as SO4 Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



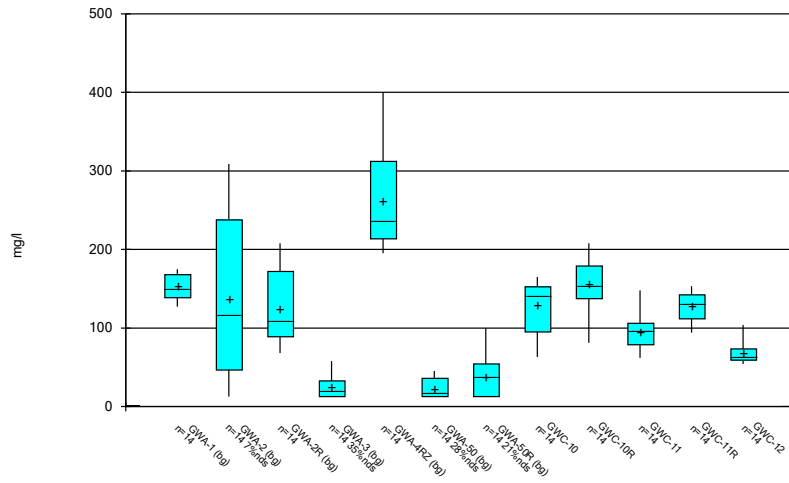
Constituent: Thallium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



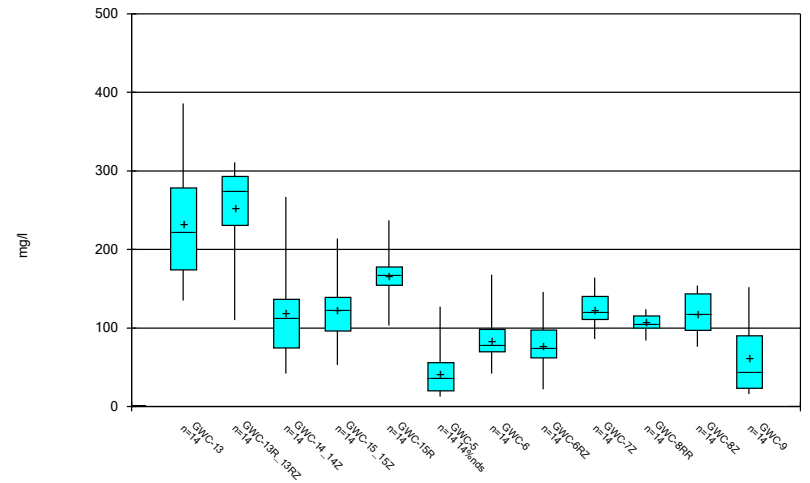
Constituent: Thallium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



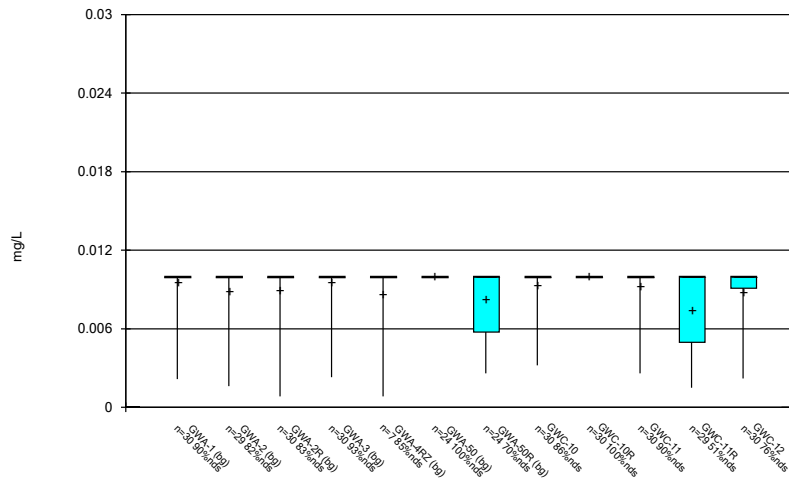
Constituent: Total Dissolved Solids Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



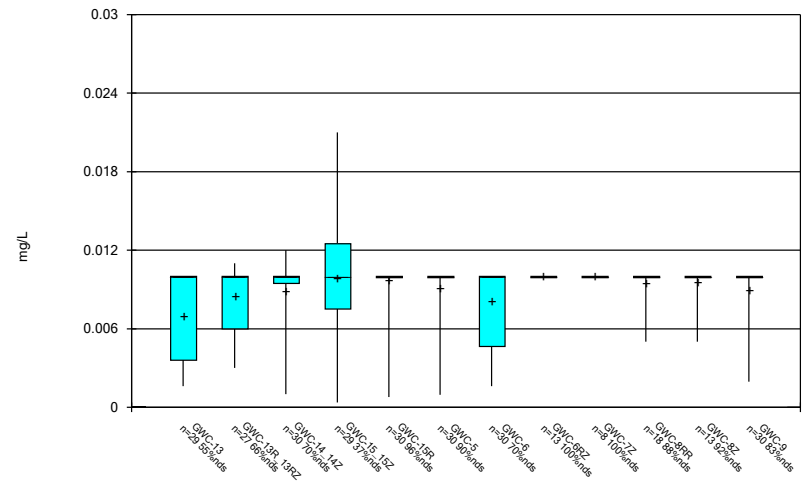
Constituent: Total Dissolved Solids Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



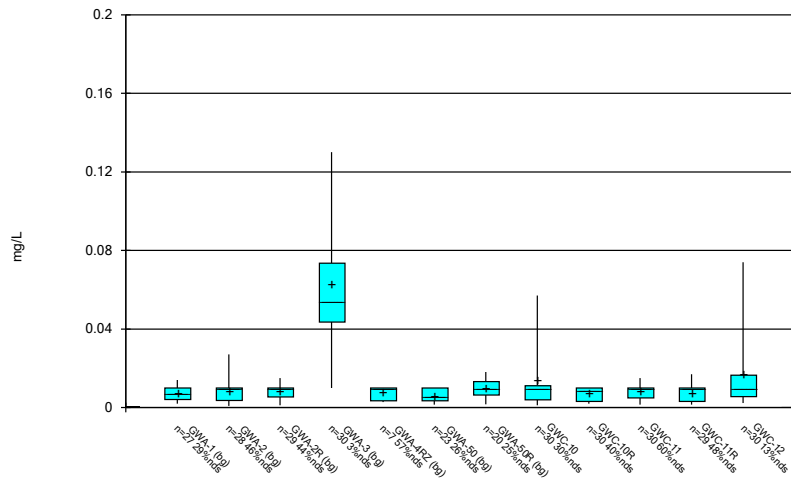
Constituent: Vanadium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



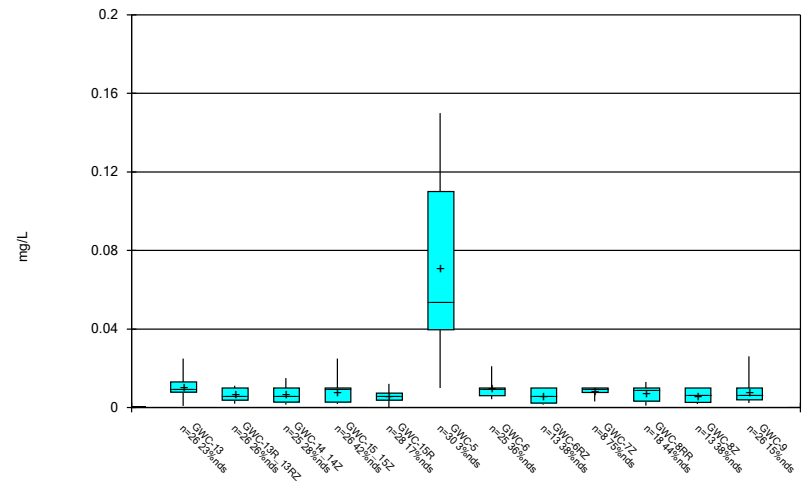
Constituent: Vanadium Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/7/2020 10:02 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

FIGURE C.

Excluded Data - Bedrock Wells

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:08 AM

GWC-13R_13RZ Zinc (mg/L)
GWC-15R Zinc (mg/L)

8/21/2007	
8/23/2007	
10/24/2007	
11/17/2007	0.023 (O)
11/18/2007	
1/15/2008	
1/30/2008	
1/31/2008	
3/6/2008	
3/11/2008	
12/2/2008	0.021 (O)
12/4/2008	
12/12/2008	0.097 (O)
4/23/2009	
4/29/2009	0.068 (O)
10/6/2009	
10/7/2009	
10/21/2009	
4/27/2010	
4/28/2010	0.048 (O)
5/3/2010	
4/27/2011	
4/3/2012	
4/2/2013	
10/8/2013	
10/16/2013	
4/1/2014	
10/1/2014	
3/30/2015	
3/31/2015	
4/1/2015	
10/11/2015	
10/13/2015	
10/14/2015	
3/29/2016	
3/30/2016	
4/5/2016	
9/28/2016	
3/16/2018	

Excluded Data - Overburden Wells

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:10 AM

	GWC-6 Zinc (mg/L)	GWC-9 Zinc (mg/L)
8/22/2007	0.04 (o)	
8/23/2007		
8/24/2007		
11/2/2007		
11/17/2007		
11/18/2007		
11/20/2007	0.03 (o)	
1/15/2008		0.075 (o)
1/16/2008		
1/23/2008	0.048 (o)	
1/31/2008		
3/5/2008		
3/6/2008		0.051 (o)
3/10/2008		
3/11/2008		
5/13/2008		
5/14/2008		
12/2/2008		
12/5/2008		
12/12/2008		0.077 (o)
12/13/2008		
12/14/2008		
4/15/2009		
4/16/2009		0.064 (o)
4/28/2009		
4/29/2009		
10/8/2009		
10/9/2009	0.055 (o)	
10/20/2009		
10/21/2009		
4/27/2010		
5/4/2010	0.045 (o)	
5/2/2012		
4/15/2013		
10/22/2013		
4/21/2014		
9/30/2014		
4/3/2015		
10/7/2015		
3/22/2016		
3/28/2016		
3/30/2016		
4/5/2016		
5/31/2016		
8/9/2016		
3/23/2019		

Excluded Data - Appendix III

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/7/2020, 10:11 AM

GWA-2 Fluoride (mg/L)

3/19/2018

1.1 (o)

FIGURE D.

Bedrock Wells Intrawell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Barium (mg/L)	GWA-2R	0.02539	n/a	3/11/2020	0.027	Yes	30	0.2153	0.03537	0	None	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/12/2020	0.053	Yes	11	0.02799	0.002333	0	None	0.0005486	Param Intra 1 of 2

Bedrock Wells Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-1	0.0097	n/a	3/11/2020	0.00079	No	30	n/a	n/a	n/a	50	n/a	0.002008	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-2R	0.0081	n/a	3/11/2020	0.002	No	30	n/a	n/a	n/a	56.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4RZ	0.003	n/a	3/12/2020	0.0017	No	11	n/a	n/a	n/a	63.64	n/a	0.01276	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10R	0.003	n/a	3/12/2020	0.003ND	No	31	n/a	n/a	n/a	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/12/2020	0.001	No	30	n/a	n/a	n/a	83.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13R_13RZ	0.00447	n/a	3/17/2020	0.0009	No	26	n/a	n/a	n/a	61.54	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-15R	0.0106	n/a	3/13/2020	0.00056	No	32	n/a	n/a	n/a	53.13	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6RZ	0.003	n/a	3/12/2020	0.0011	No	14	n/a	n/a	n/a	85.71	n/a	0.008612	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8RR	0.003	n/a	3/12/2020	0.00043	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-1	0.005	n/a	3/11/2020	0.00088	No	32	n/a	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2R	0.0056	n/a	3/11/2020	0.00044	No	32	n/a	n/a	n/a	78.13	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4RZ	0.002431	n/a	3/12/2020	0.0033	No	11	0.0969	0.01324	27.27	Kaplan-Meier	0.0005486	Param Intra 1 of 2	
Arsenic (mg/L)	GWC-11R	0.0077	n/a	3/12/2020	0.0012	No	32	n/a	n/a	n/a	50	n/a	0.001803	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-13R_13RZ	0.0066	n/a	3/17/2020	0.00067	No	30	n/a	n/a	n/a	66.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15R	0.005	n/a	3/13/2020	0.00047	No	32	n/a	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-8RR	0.005	n/a	3/12/2020	0.00039	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.04054	n/a	3/11/2020	0.016	No	31	0.1451	0.02538	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWA-2	0.04842	n/a	3/11/2020	0.035	No	30	0.02121	0.01224	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWA-2R	0.02539	n/a	3/11/2020	0.027	Yes	30	0.2153	0.03537	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/12/2020	0.053	Yes	11	0.02799	0.002333	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWA-50R	0.02185	n/a	3/11/2020	0.0095	No	23	0.01499	0.002959	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWC-10R	0.03543	n/a	3/12/2020	0.028	No	32	0.02388	0.005231	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWC-11R	0.02192	n/a	3/12/2020	0.021	No	32	0.01259	0.004227	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWC-15R	0.03156	n/a	3/13/2020	0.02	No	31	0.0244	0.003233	0	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWC-6RZ	0.01917	n/a	3/12/2020	0.0072	No	15	0.009456	0.003803	6.667	None	0.0005486	Param Intra 1 of 2	
Barium (mg/L)	GWC-8RR	0.024	n/a	3/12/2020	0.014	No	20	n/a	n/a	0	n/a	0.004291	NP Intra (normality) 1 of 2	
Beryllium (mg/L)	GWA-1	0.003	n/a	3/11/2020	0.003ND	No	14	n/a	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-50R	0.003	n/a	3/11/2020	0.003ND	No	14	n/a	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-6RZ	0.003	n/a	3/12/2020	0.000093	No	15	n/a	n/a	n/a	80	n/a	0.007533	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-8RR	0.003	n/a	3/12/2020	0.003ND	No	14	n/a	n/a	n/a	92.86	n/a	0.008612	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-1	0.001	n/a	3/11/2020	0.001ND	No	32	n/a	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10R	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-11R	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-15R	0.001	n/a	3/13/2020	0.001ND	No	31	n/a	n/a	n/a	87.1	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.038	n/a	3/11/2020	0.0012	No	30	n/a	n/a	n/a	70	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.0025	No	29	n/a	n/a	n/a	65.52	n/a	0.002172	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2R	0.012	n/a	3/11/2020	0.0042	No	31	n/a	n/a	n/a	83.87	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	n/a	61.54	n/a	0.002667	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.01ND	No	30	n/a	n/a	n/a	80	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11R	0.02073	n/a	3/12/2020	0.0042	No	21	0.009791	0.004649	4.762	None	0.0005486	Param Intra 1 of 2	
Chromium (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.002	No	31	n/a	n/a	n/a	74.19	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15R	0.014	n/a	3/13/2020	0.0011	No	31	n/a	n/a	n/a	64.52	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6RZ	0.01	n/a	3/12/2020	0.0028	No	15	n/a	n/a	n/a	33.33	n/a	0.007533	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.0031	No	19	n/a	n/a	n/a	68.42	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/11/2020	0.00037	No	32	n/a	n/a	n/a	87.5	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.013	n/a	3/11/2020	0.01ND	No	32	n/a	n/a	n/a	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4RZ	0.02221	n/a	3/12/2020	0.013	No	11	0.0078	0.005078	9.091	None	0.0005486	Param Intra 1 of 2	
Cobalt (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	n/a	76.92	n/a	0.002667	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	31	n/a	n/a	n/a	93.55	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	n/a	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-1	0.025	n/a	3/11/2020	0.025ND	No	27	n/a	n/a	n/a	55.56	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	3/11/2020	0.0002	No	27	n/a	n/a	n/a	70.37	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2R	0.025	n/a	3/11/2020	0.0011	No	27	n/a	n/a	n/a	66.67	n/a	0.002502	NP Intra (NDs) 1 of 2

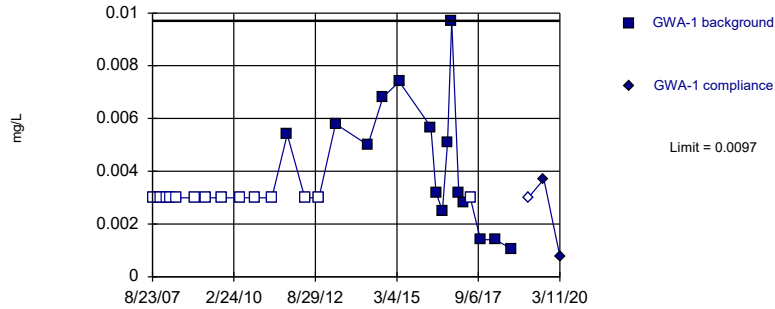
Bedrock Wells Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Copper (mg/L)	GWA-4RZ	0.025	n/a	3/12/2020	0.0002	No	4	n/a	n/a	n/a	75	n/a	0.06138	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-50R	0.01777	n/a	3/11/2020	0.0035	No	10	0.005944	0.004014	0	0	None	0.0005486	Param Intra 1 of 2
Copper (mg/L)	GWC-10R	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	n/a	81.48	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-11R	0.025	n/a	3/12/2020	0.00032	No	27	n/a	n/a	n/a	74.07	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-13R_13RZ	0.025	n/a	3/17/2020	0.00045	No	26	n/a	n/a	n/a	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-15R	0.025	n/a	3/13/2020	0.00029	No	27	n/a	n/a	n/a	70.37	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8RR	0.025	n/a	3/12/2020	0.025ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-1	0.005	n/a	3/11/2020	0.005ND	No	32	n/a	n/a	n/a	81.25	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.005	n/a	3/11/2020	0.005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-4RZ	0.005	n/a	3/12/2020	0.005ND	No	11	n/a	n/a	n/a	90.91	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-50R	0.005	n/a	3/11/2020	0.005ND	No	26	n/a	n/a	n/a	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13R_13RZ	0.005	n/a	3/17/2020	0.005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15R	0.005	n/a	3/13/2020	0.00037	No	32	n/a	n/a	n/a	81.25	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6RZ	0.005	n/a	3/12/2020	0.00007	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8RR	0.005	n/a	3/12/2020	0.000056	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0005	n/a	3/11/2020	0.0005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-13R_13RZ	0.0005	n/a	3/17/2020	0.0005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-15R	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-8RR	0.0005	n/a	3/12/2020	0.0005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.024	n/a	3/11/2020	0.00068	No	26	n/a	n/a	n/a	73.08	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.02	n/a	3/11/2020	0.0014	No	25	n/a	n/a	n/a	68	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2R	0.01	n/a	3/11/2020	0.002	No	26	n/a	n/a	n/a	84.62	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-50R	0.01209	n/a	3/11/2020	0.001	No	10	0.05305	0.01932	10	10	None	0.0005486	Param Intra 1 of 2
Nickel (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.00043	No	26	n/a	n/a	n/a	88.46	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	n/a	92.59	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.00082	No	25	n/a	n/a	n/a	80	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.00072	No	24	n/a	n/a	n/a	75	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.0021	No	32	n/a	n/a	n/a	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	32	n/a	n/a	n/a	87.5	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-15R	0.01	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	n/a	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-50R	0.004299	n/a	3/11/2020	0.0013	No	21	0.002202	0.0008907	38.1	38.1	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Silver (mg/L)	GWC-13R_13RZ	0.01	n/a	3/17/2020	0.01ND	No	26	n/a	n/a	n/a	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2R	0.001	n/a	3/11/2020	0.001ND	No	13	n/a	n/a	n/a	92.31	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-10R	0.001	n/a	3/12/2020	0.000054	No	12	n/a	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-11R	0.001	n/a	3/12/2020	0.001ND	No	12	n/a	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-13R_13RZ	0.001	n/a	3/17/2020	0.001ND	No	12	n/a	n/a	n/a	91.67	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-1	0.01	n/a	3/11/2020	0.01ND	No	27	n/a	n/a	n/a	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	3/11/2020	0.01ND	No	26	n/a	n/a	n/a	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2R	0.01	n/a	3/11/2020	0.00084	No	27	n/a	n/a	n/a	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-50R	0.01	n/a	3/11/2020	0.01ND	No	21	n/a	n/a	n/a	66.67	n/a	0.003999	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11R	0.01	n/a	3/12/2020	0.01ND	No	26	n/a	n/a	n/a	46.15	n/a	0.002667	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-13R_13RZ	0.011	n/a	3/17/2020	0.01ND	No	24	n/a	n/a	n/a	62.5	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-8RR	0.01	n/a	3/12/2020	0.01ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-1	0.01366	n/a	3/11/2020	0.0035	No	24	0.005745	0.003444	29.17	29.17	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2	0.0199	n/a	3/11/2020	0.0028	No	25	0.06488	0.03341	48	48	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2R	0.01285	n/a	3/11/2020	0.0038	No	26	0.000044540	0.00005316	46.15	46.15	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-50R	0.02139	n/a	3/11/2020	0.0033	No	17	0.008728	0.005133	23.53	23.53	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-10R	0.01	n/a	3/12/2020	0.0027	No	27	n/a	n/a	n/a	40.74	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-11R	0.017	n/a	3/12/2020	0.0053	No	26	n/a	n/a	n/a	50	n/a	0.002667	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13R_13RZ	0.01057	n/a	3/17/2020	0.0057	No	23	0.06716	0.0154	30.43	30.43	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-15R	0.01063	n/a	3/13/2020	0.0057	No	25	0.004906	0.002508	20	20	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-6RZ	0.01081	n/a	3/12/2020	0.0032	No	10	0.05354	0.01713	40	40	Kaplan-Meier	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-8RR	0.01242	n/a	3/12/2020	0.002	No	15	0.004691	0.003024	46.67	46.67	Kaplan-Meier	0.0005486	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

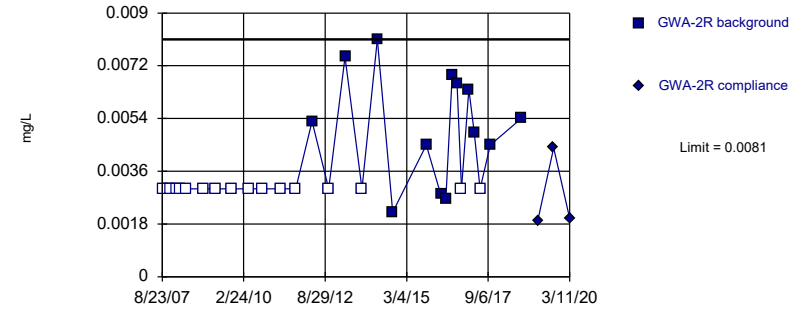


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 50% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

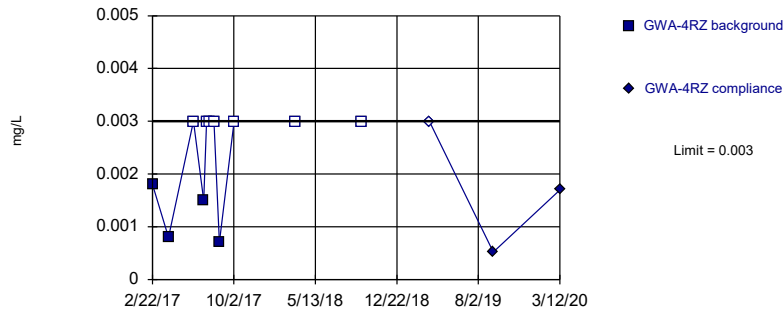


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 56.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

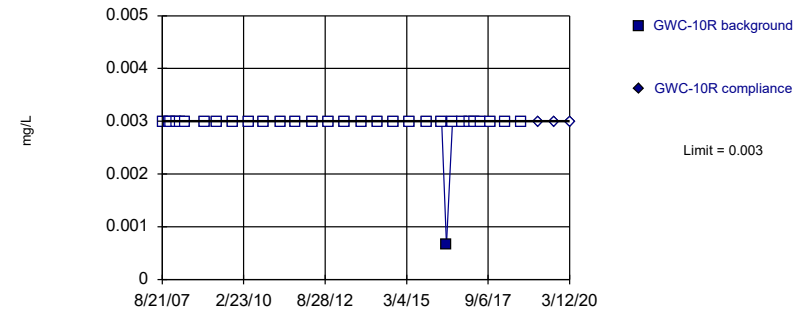


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.003	
10/23/2007	<0.003	
11/18/2007	<0.003	
1/30/2008	<0.003	
3/10/2008	<0.003	
5/13/2008	<0.003	
12/5/2008	<0.003	
4/15/2009	<0.003	
10/7/2009	<0.003	
5/3/2010	<0.003	
10/12/2010	<0.003	
4/27/2011	<0.003	
10/17/2011	0.0054	
5/2/2012	<0.003	
10/8/2012	<0.003	
4/12/2013	0.0058	
10/16/2013	0.01 (o)	
4/11/2014	0.005 (J)	
9/30/2014	0.0068	
3/30/2015	0.0074	
10/13/2015	0.017 (o)	
3/22/2016	0.00567	
5/19/2016	0.00319	
7/29/2016	0.0025 (J)	
9/23/2016	0.0051	
11/9/2016	0.0097 (J)	
1/30/2017	0.0032	
3/30/2017	0.0028 (J)	
6/9/2017	<0.003	
10/2/2017	0.0014 (J)	
3/16/2018	0.0014 (J)	
9/17/2018	0.00105 (JD)	
3/20/2019		<0.003
9/12/2019		0.0037
3/11/2020		0.00079 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.003	
10/24/2007	<0.003	
11/18/2007	<0.003	
1/31/2008	<0.003	
3/10/2008	<0.003	
5/13/2008	<0.003	
12/4/2008	<0.003	
4/21/2009	<0.003	
10/8/2009	<0.003	
4/21/2010	<0.003	
9/28/2010	<0.003	
4/12/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	0.0053	
10/9/2012	<0.003	
4/11/2013	0.0075	
10/16/2013	<0.003	
4/10/2014	0.0081	
9/30/2014	0.0022 (J)	
3/30/2015	0.011 (o)	
10/13/2015	0.0045 (J)	
3/23/2016	0.00281 (J)	
5/19/2016	0.00264 (J)	
7/29/2016	0.0069	
9/22/2016	0.0066	
11/10/2016	<0.003	
1/31/2017	0.0064	
4/3/2017	0.0049	
6/9/2017	<0.003	
10/2/2017	0.0045	
3/16/2018	0.021 (o)	
9/14/2018	0.0054	
3/19/2019		0.0019 (J)
9/13/2019		0.0044
3/11/2020		0.002 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	0.0018 (J)	
4/7/2017	0.0008 (J)	
6/14/2017	<0.003	
7/12/2017	0.0015 (J)	
7/20/2017	<0.003	
7/28/2017	<0.003	
8/9/2017	<0.003	
8/24/2017	0.0007 (J)	
10/3/2017	<0.003	
3/21/2018	<0.003	
9/18/2018	<0.003	
3/21/2019		<0.003
9/12/2019		0.00052 (J)
3/12/2020		0.0017 (J)

Prediction Limit

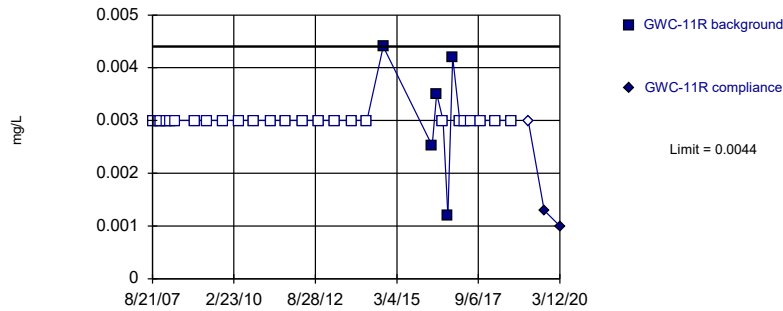
Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	<0.003	
11/1/2007	<0.003	
11/20/2007	<0.003	
1/30/2008	<0.003	
3/6/2008	<0.003	
5/8/2008	<0.003	
12/14/2008	<0.003	
4/29/2009	<0.003	
10/21/2009	<0.003	
4/21/2010	<0.003	
9/28/2010	<0.003	
4/12/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
10/8/2012	<0.003	
4/3/2013	<0.003	
10/15/2013	<0.003	
4/9/2014	<0.003	
10/2/2014	<0.003	
4/2/2015	<0.003	
10/12/2015	<0.003	
3/31/2016	<0.003	
5/26/2016	0.000659 (J)	
8/3/2016	<0.003	
9/28/2016	0.0037 (o)	
11/22/2016	<0.003	
2/7/2017	<0.003	
4/10/2017	<0.003	
6/14/2017	<0.003	
10/4/2017	<0.003	
3/21/2018	<0.003	
9/18/2018	<0.003	
3/22/2019		<0.003
9/17/2019		<0.003
3/12/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

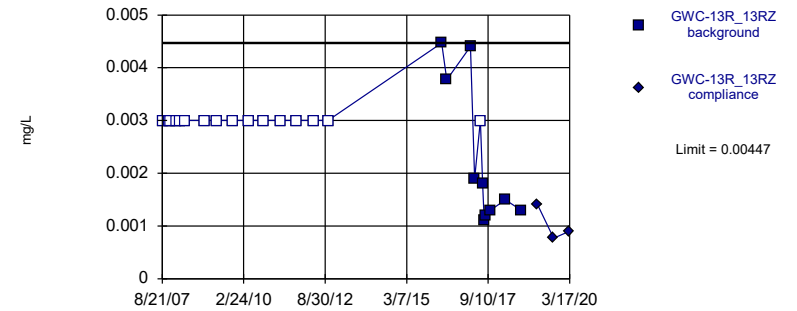


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

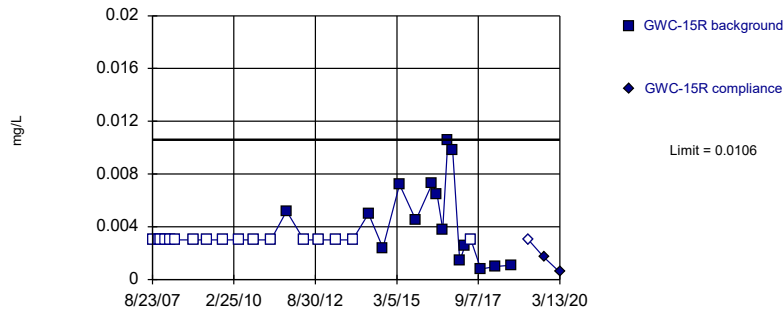


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

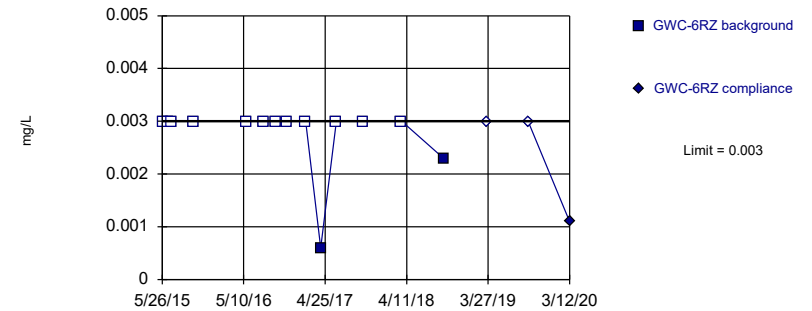


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:00 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.003	
11/1/2007	<0.003	
11/18/2007	<0.003	
1/30/2008	<0.003	
3/6/2008	<0.003	
5/7/2008	<0.003	
12/14/2008	<0.003	
4/29/2009	<0.003	
10/22/2009	<0.003	
4/21/2010	<0.003	
9/29/2010	<0.003	
4/13/2011	<0.003	
10/4/2011	<0.003	
4/4/2012	<0.003	
10/3/2012	<0.003	
4/3/2013	<0.003	
10/9/2013	<0.003	
4/2/2014	<0.003	
10/2/2014	0.0044 (J)	
4/1/2015	0.0087 (o)	
10/11/2015	0.007 (o)	
4/4/2016	0.00252 (J)	
5/26/2016	0.00351	
8/4/2016	<0.003	
9/28/2016	0.0012 (J)	
11/22/2016	0.0042	
2/8/2017	<0.003	
4/10/2017	<0.003	
6/15/2017	<0.003	
10/4/2017	<0.003	
3/22/2018	<0.003	
9/18/2018	<0.003	
3/23/2019		<0.003
9/17/2019		0.0013 (J)
3/12/2020		0.001 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.003	
11/1/2007	<0.003	
11/19/2007	<0.003	
1/31/2008	<0.003	
3/5/2008	<0.003	
5/7/2008	<0.003	
12/12/2008	<0.003	
4/29/2009	<0.003	
10/21/2009	<0.003	
4/28/2010	<0.003	
10/6/2010	<0.003	
4/20/2011	<0.003	
10/12/2011	<0.003	
4/25/2012	<0.003	
10/2/2012	<0.003	
4/2/2013	0.007 (o)	
10/8/2013	0.01 (o)	
4/1/2014	0.011 (o)	
10/1/2014	0.018 (o)	
3/31/2015	0.011 (o)	
10/14/2015	0.0083 (o)	
4/4/2016	0.00447	
6/1/2016	0.00377	
2/22/2017	0.0044	
4/11/2017	0.0019 (J)	
6/16/2017	<0.003	
7/12/2017	0.0018 (J)	
7/28/2017	0.0011 (J)	
8/10/2017	0.0012 (J)	
10/6/2017	0.0013 (J)	
3/23/2018	0.0015 (J)	
9/20/2018	0.0013 (J)	
3/22/2019		0.0014 (J)
9/18/2019		0.00077 (X)
3/17/2020		0.0009 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.003	
11/2/2007	<0.003	
11/17/2007	<0.003	
1/15/2008	<0.003	
3/6/2008	<0.003	
5/7/2008	<0.003	
12/2/2008	<0.003	
4/28/2009	<0.003	
10/19/2009	<0.003	
4/27/2010	<0.003	
10/4/2010	<0.003	
4/18/2011	<0.003	
10/12/2011	0.0052	
4/23/2012	<0.003	
10/10/2012	<0.003	
4/15/2013	<0.003	
10/22/2013	<0.003	
4/21/2014	0.005 (J)	
9/30/2014	0.0024 (J)	
4/3/2015	0.0072	
10/7/2015	0.0045 (J)	
4/5/2016	0.00727	
5/31/2016	0.00649	
8/4/2016	0.0038	
9/29/2016	0.0106	
11/23/2016	0.0098	
2/10/2017	0.0014 (J)	
4/12/2017	0.0026 (J)	
6/15/2017	<0.003	
10/6/2017	0.0008 (J)	
3/23/2018	0.001 (J)	
9/19/2018	0.0011 (J)	
3/25/2019		<0.003
9/17/2019		0.0017 (J)
3/13/2020		0.00056 (J)

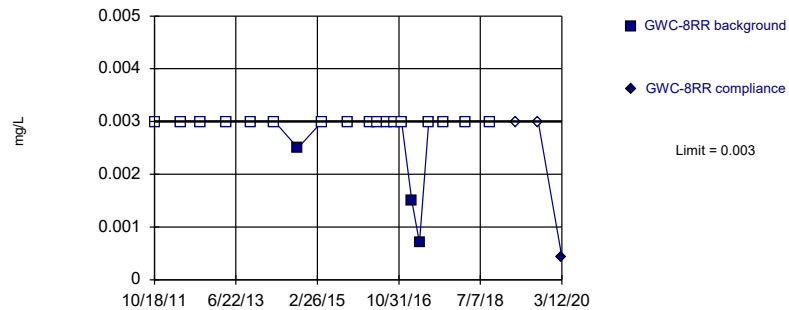
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	<0.003	
6/18/2015	<0.003 (D)	
7/2/2015	<0.003	
10/9/2015	<0.003	
3/29/2016	0.0364 (o)	
5/24/2016	<0.003	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/14/2016	<0.003	
2/1/2017	<0.003	
4/6/2017	0.0006 (J)	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/20/2018	<0.003	
9/17/2018	0.0023 (J)	
3/21/2019		<0.003
9/16/2019		<0.003
3/12/2020		0.0011 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

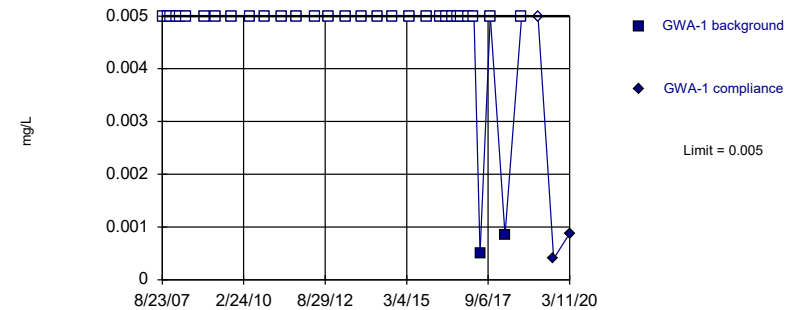


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

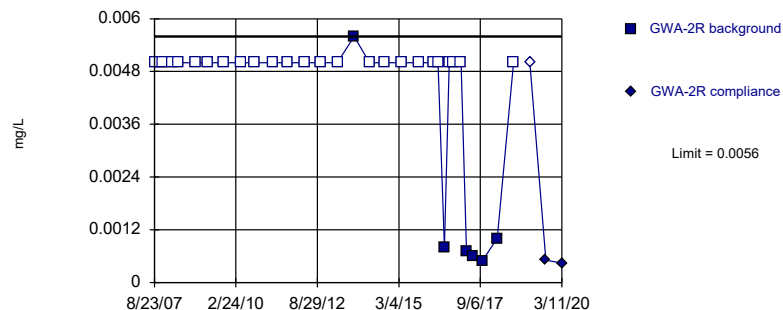


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

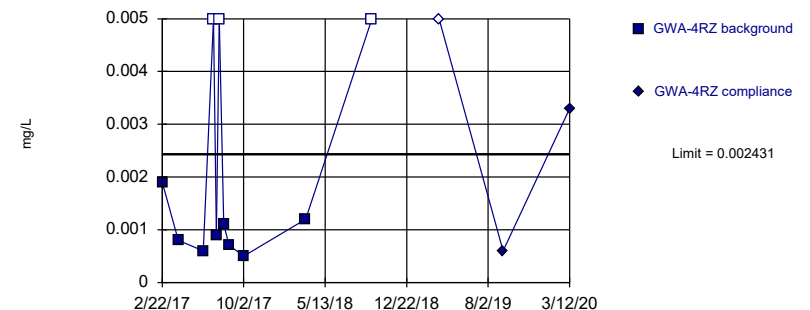


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.0969, Std. Dev.=0.01324, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8043, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.003	
4/30/2012	<0.003	
10/3/2012	<0.003	
4/8/2013	<0.003	
10/9/2013	<0.003	
4/10/2014	<0.003	
10/2/2014	0.0025 (J)	
4/3/2015	<0.003	
10/8/2015	<0.003	
3/30/2016	<0.003	
5/24/2016	<0.003	
8/2/2016	<0.003	
9/27/2016	<0.003	
11/22/2016	<0.003	
2/6/2017	0.0015 (J)	
4/6/2017	0.0007 (J)	
6/14/2017	<0.003	
10/4/2017	<0.003	
3/21/2018	<0.003	
9/18/2018	<0.003	
3/27/2019		<0.003
9/16/2019		<0.003 (D)
3/12/2020		0.00043 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.005	
10/23/2007	<0.005	
11/18/2007	<0.005	
1/30/2008	<0.005	
3/10/2008	<0.005	
5/13/2008	<0.005	
12/5/2008	<0.005	
4/15/2009	<0.005	
10/7/2009	<0.005	
5/3/2010	<0.005	
10/12/2010	<0.005	
4/27/2011	<0.005	
10/17/2011	<0.005	
5/2/2012	<0.005	
10/8/2012	<0.005	
4/12/2013	<0.005	
10/16/2013	<0.005	
4/11/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	<0.005	
10/13/2015	<0.005	
3/22/2016	<0.005	
5/19/2016	<0.005	
7/29/2016	<0.005	
9/23/2016	<0.005	
11/9/2016	<0.005	
1/30/2017	<0.005	
3/30/2017	<0.005	
6/9/2017	0.0005 (J)	
10/2/2017	<0.005	
3/16/2018	0.00085 (J)	
9/17/2018	<0.005 (D)	
3/20/2019		<0.005
9/12/2019		0.0004 (J)
3/11/2020		0.00088 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.005	
10/24/2007	<0.005	
11/18/2007	<0.005	
1/31/2008	0.005	
3/10/2008	<0.005	
5/13/2008	<0.005	
12/4/2008	<0.005	
4/21/2009	<0.005	
10/8/2009	<0.005	
4/21/2010	<0.005	
9/28/2010	<0.005	
4/12/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
10/9/2012	<0.005	
4/11/2013	<0.005	
10/16/2013	0.0056	
4/10/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	<0.005	
10/13/2015	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/29/2016	0.0008 (J)	
9/22/2016	<0.005	
11/10/2016	<0.005	
1/31/2017	<0.005	
4/3/2017	0.0007 (J)	
6/9/2017	0.0006 (J)	
10/2/2017	0.0005 (J)	
3/16/2018	0.001 (J)	
9/14/2018	<0.005	
3/19/2019		<0.005
9/13/2019		0.00051 (J)
3/11/2020		0.00044 (J)

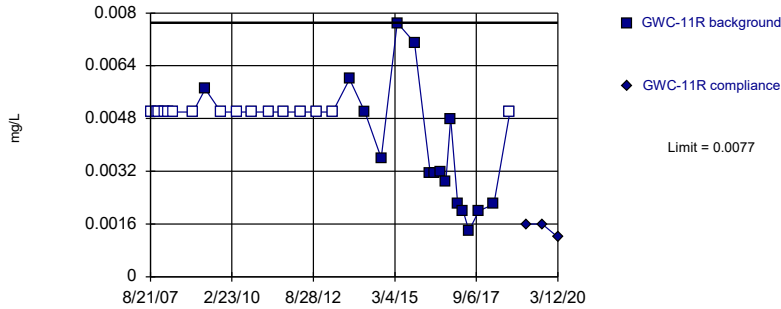
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	0.0019 (J)	
4/7/2017	0.0008 (J)	
6/14/2017	0.0006 (J)	
7/12/2017	<0.005	
7/20/2017	0.0009 (J)	
7/28/2017	<0.005	
8/9/2017	0.0011 (J)	
8/24/2017	0.0007 (J)	
10/3/2017	0.0005 (J)	
3/21/2018	0.0012 (J)	
9/18/2018	<0.005	
3/21/2019		<0.005
9/12/2019		0.0006 (J)
3/12/2020		0.0033 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

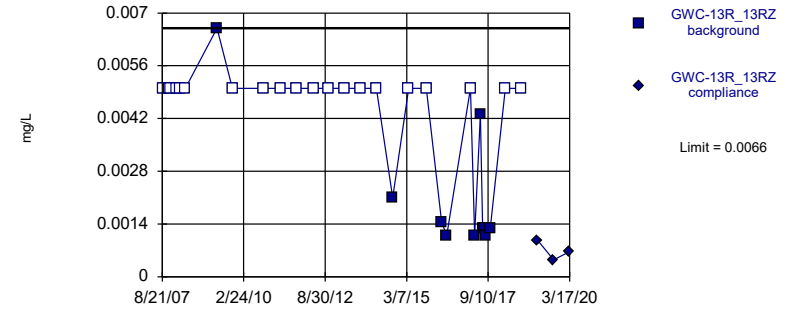


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

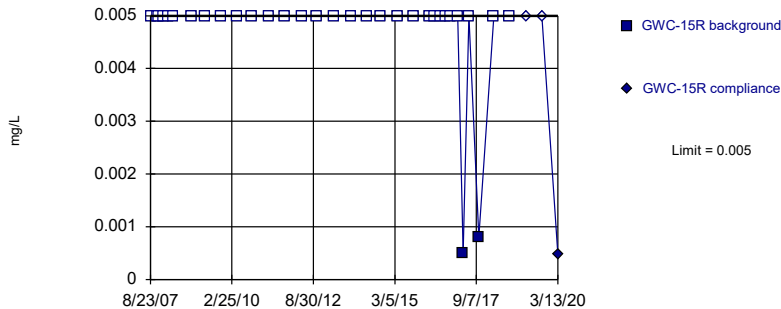


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

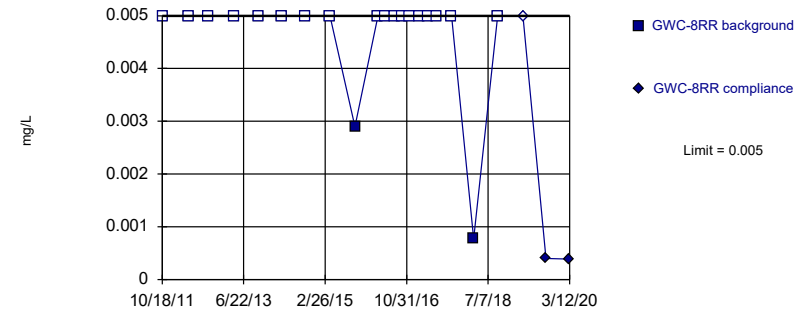


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.005	
11/1/2007	<0.005	
11/18/2007	<0.005	
1/30/2008	<0.005	
3/6/2008	<0.005	
5/7/2008	<0.005	
12/14/2008	<0.005	
4/29/2009	0.0057	
10/22/2009	<0.005	
4/21/2010	<0.005	
9/29/2010	<0.005	
4/13/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
10/3/2012	<0.005	
4/3/2013	<0.005	
10/9/2013	0.006	
4/2/2014	0.005 (J)	
10/2/2014	0.0036 (J)	
4/1/2015	0.0077	
10/11/2015	0.0071	
4/4/2016	0.00315 (J)	
5/26/2016	0.00313 (J)	
8/4/2016	0.0032 (J)	
9/28/2016	0.0029 (J)	
11/22/2016	0.0048 (J)	
2/8/2017	0.0022 (J)	
4/10/2017	0.002 (J)	
6/15/2017	0.0014 (J)	
10/4/2017	0.002 (J)	
3/22/2018	0.0022 (J)	
9/18/2018	<0.005	
3/23/2019		0.0016 (J)
9/17/2019		0.0016 (J)
3/12/2020		0.0012 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/12/2008	0.02 (o)	
4/29/2009	0.0066	
10/21/2009	<0.005	
4/28/2010	0.016 (o)	
10/6/2010	<0.005	
4/20/2011	<0.005	
10/12/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/8/2013	<0.005	
4/1/2014	<0.005	
10/1/2014	0.0021 (J)	
3/31/2015	<0.005	
10/14/2015	<0.005	
4/4/2016	0.00144 (JD)	
6/1/2016	0.0011 (JD)	
2/22/2017	<0.005	
4/11/2017	0.0011 (JD)	
6/16/2017	0.0043 (JD)	
7/12/2017	0.0013 (JD)	
7/28/2017	0.0013 (J)	
8/10/2017	0.0011 (J)	
10/6/2017	0.0013 (JD)	
3/23/2018	<0.005	
9/20/2018	<0.005	
3/22/2019		0.00097 (J)
9/18/2019		0.00045 (X)
3/17/2020		0.00067 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.005	
11/2/2007	<0.005	
11/17/2007	<0.005	
1/15/2008	<0.005	
3/6/2008	<0.005	
5/7/2008	<0.005	
12/2/2008	<0.005	
4/28/2009	<0.005	
10/19/2009	<0.005	
4/27/2010	<0.005	
10/4/2010	<0.005	
4/18/2011	<0.005	
10/12/2011	<0.005	
4/23/2012	<0.005	
10/10/2012	<0.005	
4/15/2013	<0.005	
10/22/2013	<0.005	
4/21/2014	<0.005	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/7/2015	<0.005	
4/5/2016	<0.005	
5/31/2016	<0.005	
8/4/2016	<0.005	
9/29/2016	<0.005	
11/23/2016	<0.005	
2/10/2017	<0.005	
4/12/2017	0.0005 (J)	
6/15/2017	<0.005	
10/6/2017	0.0008 (J)	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/25/2019		<0.005
9/17/2019		<0.005
3/13/2020		0.00047 (J)

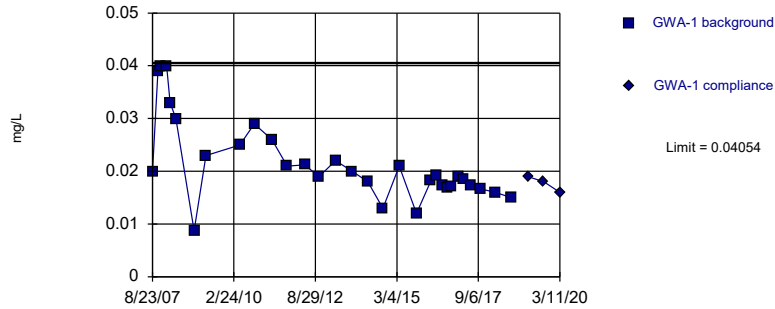
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.005	
4/30/2012	<0.005	
10/3/2012	<0.005	
4/8/2013	<0.005	
10/9/2013	<0.005	
4/10/2014	<0.005	
10/2/2014	<0.005	
4/3/2015	<0.005	
10/8/2015	0.0029 (J)	
3/30/2016	<0.005	
5/24/2016	<0.005	
8/2/2016	<0.005	
9/27/2016	<0.005	
11/22/2016	<0.005	
2/6/2017	<0.005	
4/6/2017	<0.005	
6/14/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	0.00077 (J)	
9/18/2018	<0.005	
3/27/2019		<0.005
9/16/2019		0.0004 (JD)
3/12/2020		0.00039 (J)

Within Limit

Prediction Limit
Intrawell Parametric

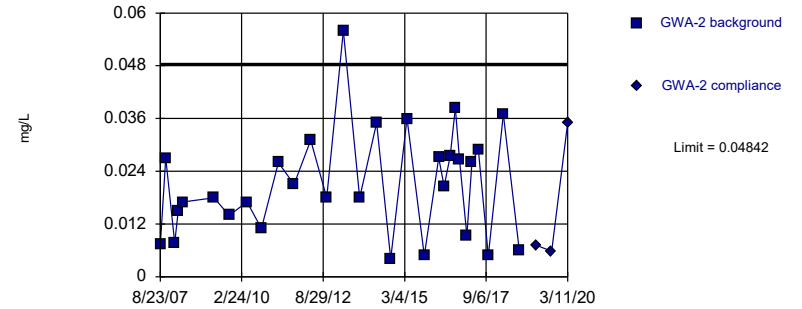


Background Data Summary (based on square root transformation): Mean=0.1451, Std. Dev.=0.02538, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.902. Kappa = 2.215 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

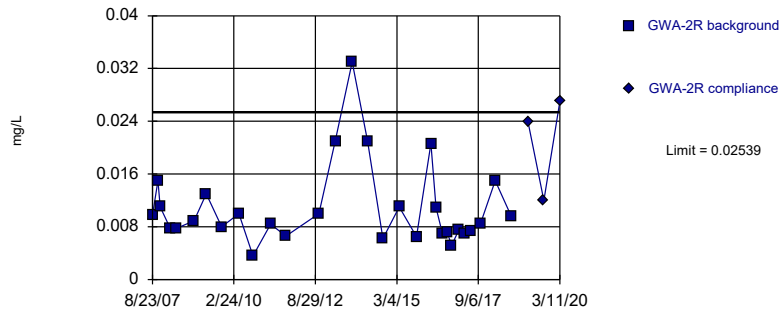


Background Data Summary: Mean=0.02121, Std. Dev.=0.01224, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.9. Kappa = 2.223 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

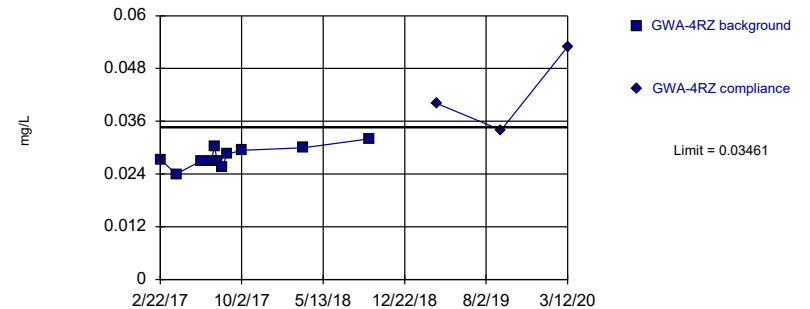


Background Data Summary (based on cube root transformation): Mean=0.2153, Std. Dev.=0.03537, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.9. Kappa = 2.223 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02799, Std. Dev.=0.002333, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	0.02	
10/23/2007	0.039	
11/18/2007	0.04 (J)	
1/30/2008	0.04	
3/10/2008	0.033	
5/13/2008	0.03	
12/5/2008	0.0087	
4/15/2009	0.023	
10/7/2009	0.15 (o)	
5/3/2010	0.025	
10/12/2010	0.029	
4/27/2011	0.026	
10/17/2011	0.021	
5/2/2012	0.0212	
10/8/2012	0.019	
4/12/2013	0.022	
10/16/2013	0.02	
4/11/2014	0.018	
9/30/2014	0.013	
3/30/2015	0.021	
10/13/2015	0.012	
3/22/2016	0.0182	
5/19/2016	0.0193	
7/29/2016	0.0174	
9/23/2016	0.0168	
11/9/2016	0.0171	
1/30/2017	0.019	
3/30/2017	0.0184	
6/9/2017	0.0174	
10/2/2017	0.0167	
3/16/2018	0.016	
9/17/2018	0.015 (D)	
3/20/2019		0.019
9/12/2019		0.018
3/11/2020		0.016

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	0.0073	
10/24/2007	0.027	
11/18/2007	0.13 (o)	
1/31/2008	0.0077	
3/11/2008	0.015	
5/6/2008	0.017	
12/4/2008	0.14 (o)	
4/21/2009	0.018	
10/7/2009	0.014	
4/26/2010	0.017	
10/4/2010	0.011	
4/13/2011	0.026	
10/5/2011	0.021	
4/11/2012	0.0311	
10/9/2012	0.018	
4/15/2013	0.056	
10/15/2013	0.018	
4/22/2014	0.035	
9/30/2014	0.0041	
3/30/2015	0.036	
10/13/2015	0.0048	
3/23/2016	0.0271	
5/20/2016	0.0206	
7/29/2016	0.0275	
9/23/2016	0.0384	
11/9/2016	0.0266	
1/31/2017	0.0094 (J)	
3/30/2017	0.0262	
6/12/2017	0.0288	
10/2/2017	0.0048 (J)	
3/19/2018	0.037	
9/14/2018	0.0059 (J)	
3/20/2019		0.0072 (J)
9/12/2019		0.0058 (JD)
3/11/2020		0.035

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	0.0098	
10/24/2007	0.015	
11/18/2007	0.011	
1/31/2008	0.13 (O)	
3/10/2008	0.0078	
5/13/2008	0.0077	
12/4/2008	0.0089	
4/21/2009	0.013	
10/8/2009	0.008	
4/21/2010	0.01	
9/28/2010	0.0036	
4/12/2011	0.0084	
10/4/2011	0.0066	
4/3/2012	0.0625 (O)	
10/9/2012	0.01	
4/11/2013	0.021	
10/16/2013	0.033	
4/10/2014	0.021	
9/30/2014	0.0062	
3/30/2015	0.011	
10/13/2015	0.0065	
3/23/2016	0.0206	
5/19/2016	0.0109	
7/29/2016	0.007 (J)	
9/22/2016	0.0071 (J)	
11/10/2016	0.0052 (J)	
1/31/2017	0.0076 (J)	
4/3/2017	0.007 (J)	
6/9/2017	0.0074 (J)	
10/2/2017	0.0085 (J)	
3/16/2018	0.015	
9/14/2018	0.0095 (J)	
3/19/2019		0.024
9/13/2019		0.012
3/11/2020		0.027

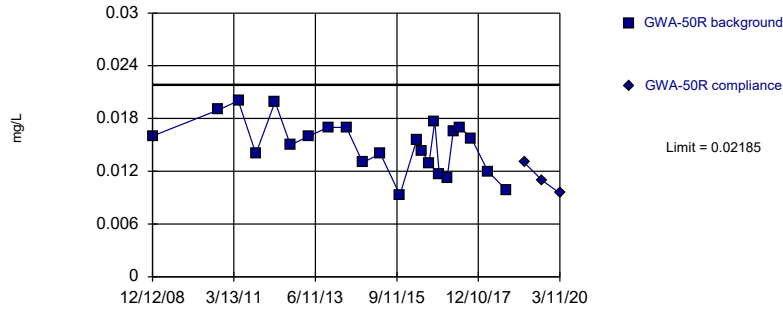
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	0.0273	
4/7/2017	0.024	
6/14/2017	0.027	
7/12/2017	0.027	
7/20/2017	0.0304	
7/28/2017	0.0269	
8/9/2017	0.0254	
8/24/2017	0.0285	
10/3/2017	0.0294	
3/21/2018	0.03	
9/18/2018	0.032	
3/21/2019		0.04
9/12/2019		0.034
3/12/2020		0.053

Within Limit

Prediction Limit
Intrawell Parametric

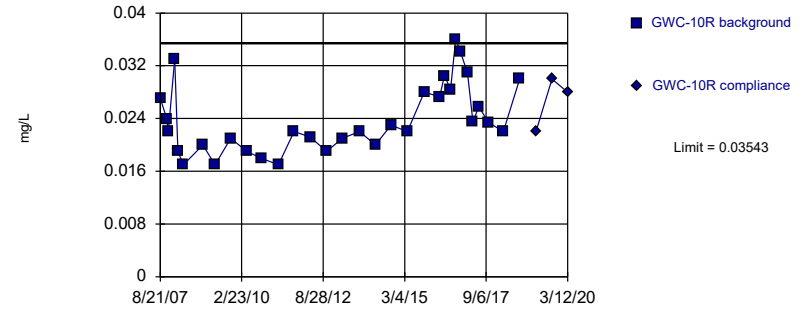


Background Data Summary: Mean=0.01499, Std. Dev.=0.002959, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

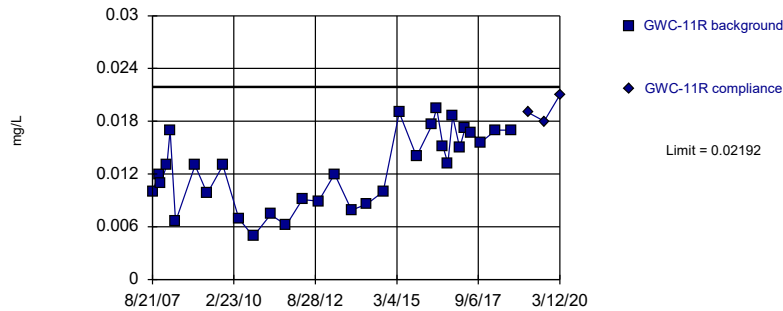


Background Data Summary: Mean=0.02388, Std. Dev.=0.005231, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9249, critical = 0.904. Kappa = 2.208 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

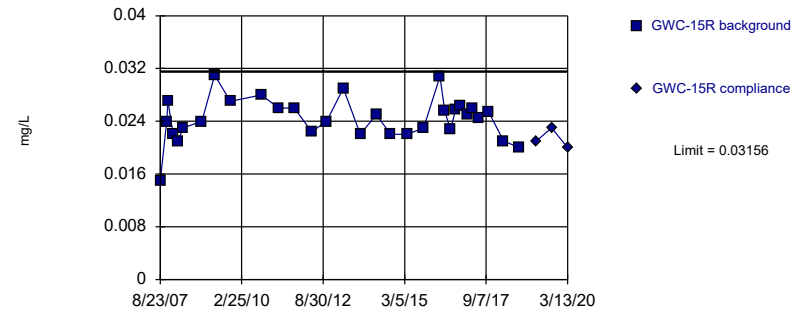


Background Data Summary: Mean=0.01259, Std. Dev.=0.004227, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.904. Kappa = 2.208 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0244, Std. Dev.=0.003233, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.902. Kappa = 2.215 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	0.016	
4/23/2009	0.14 (O)	
10/6/2009	0.12 (O)	
5/3/2010	0.12 (O)	
10/11/2010	0.019	
4/27/2011	0.02	
10/19/2011	0.014	
5/1/2012	0.0199	
10/2/2012	0.015	
4/10/2013	0.016	
10/16/2013	0.017	
4/22/2014	0.017	
10/1/2014	0.013	
3/30/2015	0.014	
10/11/2015	0.0093	
3/28/2016	0.0155	
5/25/2016	0.0143	
8/1/2016	0.0129	
9/26/2016	0.0177	
11/11/2016	0.0117	
1/30/2017	0.0113	
4/3/2017	0.0166	
6/12/2017	0.017	
10/2/2017	0.0157	
3/16/2018	0.012	
9/18/2018	0.0099 (J)	
3/19/2019		0.013
9/12/2019		0.011
3/11/2020		0.0095 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	0.027	
11/1/2007	0.024	
11/20/2007	0.022	
1/30/2008	0.033 (J)	
3/6/2008	0.019	
5/8/2008	0.017	
12/14/2008	0.02	
4/29/2009	0.017	
10/21/2009	0.021	
4/21/2010	0.019	
9/28/2010	0.018	
4/12/2011	0.017	
10/4/2011	0.022	
4/3/2012	0.0212	
10/8/2012	0.019	
4/3/2013	0.021	
10/15/2013	0.022	
4/9/2014	0.02	
10/2/2014	0.023	
4/2/2015	0.022	
10/12/2015	0.028	
3/31/2016	0.0273	
5/26/2016	0.0305	
8/3/2016	0.0284	
9/28/2016	0.036	
11/22/2016	0.0341 (J)	
2/7/2017	0.0309	
4/10/2017	0.0235	
6/14/2017	0.0258	
10/4/2017	0.0234	
3/21/2018	0.022	
9/18/2018	0.03	
3/22/2019		0.022
9/17/2019		0.03
3/12/2020		0.028

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	0.01	
11/1/2007	0.012	
11/18/2007	0.011	
1/30/2008	0.013	
3/6/2008	0.017	
5/7/2008	0.0066	
12/14/2008	0.013	
4/29/2009	0.0098	
10/22/2009	0.013	
4/21/2010	0.0069	
9/29/2010	0.0049	
4/13/2011	0.0074	
10/4/2011	0.0062	
4/4/2012	0.0091	
10/3/2012	0.0089	
4/3/2013	0.012	
10/9/2013	0.0079	
4/2/2014	0.0086	
10/2/2014	0.01	
4/1/2015	0.019	
10/11/2015	0.014	
4/4/2016	0.0176	
5/26/2016	0.0195	
8/4/2016	0.0151	
9/28/2016	0.0132	
11/22/2016	0.0186 (J)	
2/8/2017	0.015	
4/10/2017	0.0172	
6/15/2017	0.0167	
10/4/2017	0.0156	
3/22/2018	0.017	
9/18/2018	0.017	
3/23/2019		0.019
9/17/2019		0.018
3/12/2020		0.021

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.015	
11/2/2007	0.024	
11/17/2007	0.027	
1/15/2008	0.022	
3/6/2008	0.021	
5/7/2008	0.023	
12/2/2008	0.024	
4/28/2009	0.031	
10/19/2009	0.027	
4/27/2010	0.051 (o)	
10/4/2010	0.028	
4/18/2011	0.026	
10/12/2011	0.026	
4/23/2012	0.0224	
10/10/2012	0.024	
4/15/2013	0.029	
10/22/2013	0.022	
4/21/2014	0.025	
9/30/2014	0.022	
4/3/2015	0.022	
10/7/2015	0.023	
4/5/2016	0.0308	
5/31/2016	0.0255	
8/4/2016	0.0227	
9/29/2016	0.0258	
11/23/2016	0.0263 (J)	
2/10/2017	0.025	
4/12/2017	0.026	
6/15/2017	0.0244	
10/6/2017	0.0254	
3/23/2018	0.021	
9/19/2018	0.02	
3/25/2019		0.021
9/17/2019		0.023
3/13/2020		0.02

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	0.016	
6/18/2015	0.015 (D)	
7/2/2015	0.014	
10/9/2015	0.012	
3/29/2016	0.000768 (J)	
5/24/2016	0.00847 (J)	
8/1/2016	0.0086 (J)	
9/26/2016	0.0086 (J)	
11/14/2016	0.0083 (J)	
2/1/2017	0.0096 (J)	
4/6/2017	0.0087 (J)	
6/13/2017	<0.01	
10/3/2017	0.0098 (J)	
3/20/2018	0.0088 (J)	
9/17/2018	0.0082 (J)	
3/21/2019		0.0075 (J)
9/16/2019		0.0072 (J)
3/12/2020		0.0072 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	0.015	
4/30/2012	0.0192	
10/3/2012	0.017	
4/8/2013	0.018	
10/9/2013	0.021	
4/10/2014	0.019	
10/2/2014	0.014	
4/3/2015	0.014	
10/8/2015	0.024	
3/30/2016	0.0163	
5/24/2016	0.0137	
8/2/2016	0.0152	
9/27/2016	0.0147	
11/22/2016	0.0174 (J)	
2/6/2017	0.0144	
4/6/2017	0.0149	
6/14/2017	0.0139	
10/4/2017	0.015	
3/21/2018	0.015	
9/18/2018	0.014	
3/27/2019		0.014
9/16/2019		0.015 (D)
3/12/2020		0.014

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
9/30/2014	<0.003	
3/30/2015	0.00029 (J)	
10/13/2015	<0.003	
3/22/2016	<0.003	
5/19/2016	<0.003	
7/29/2016	<0.003	
9/23/2016	<0.003	
11/9/2016	<0.003	
1/30/2017	<0.003	
3/30/2017	<0.003	
6/9/2017	<0.003	
10/2/2017	<0.003	
3/16/2018	<0.003	
9/17/2018	<0.003 (D)	
3/20/2019		<0.003
9/12/2019		<0.003
3/11/2020		<0.003

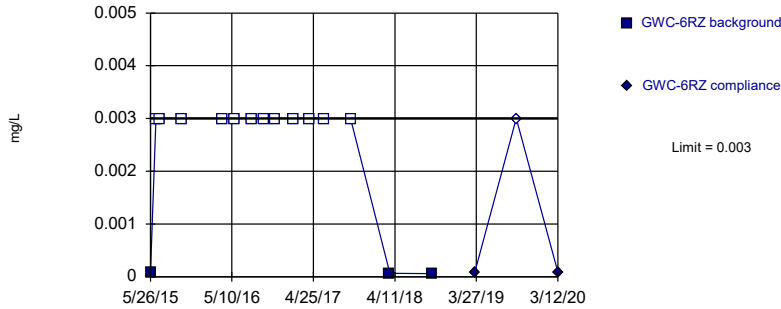
Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
10/1/2014	<0.003	
3/30/2015	0.0002 (J)	
10/11/2015	<0.003	
3/28/2016	<0.003	
5/25/2016	<0.003	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/11/2016	<0.003	
1/30/2017	<0.003	
4/3/2017	<0.003	
6/12/2017	<0.003	
10/2/2017	<0.003	
3/16/2018	<0.003	
9/18/2018	<0.003	
3/19/2019		<0.003
9/12/2019		<0.003
3/11/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

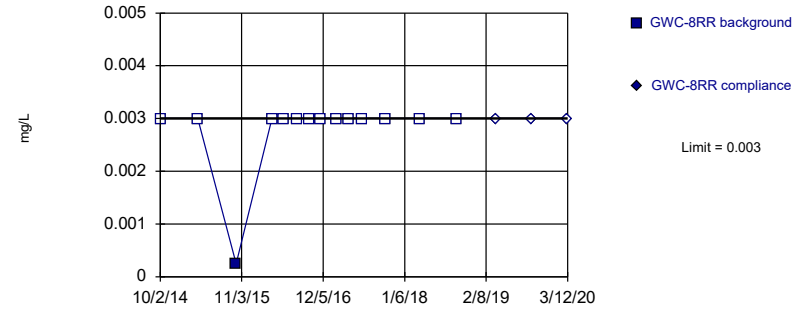


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Beryllium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

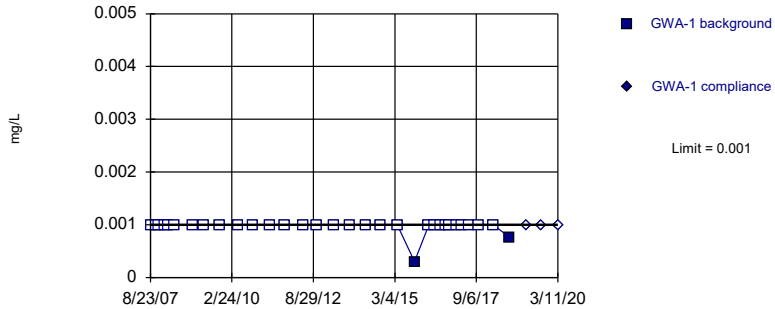


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Beryllium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

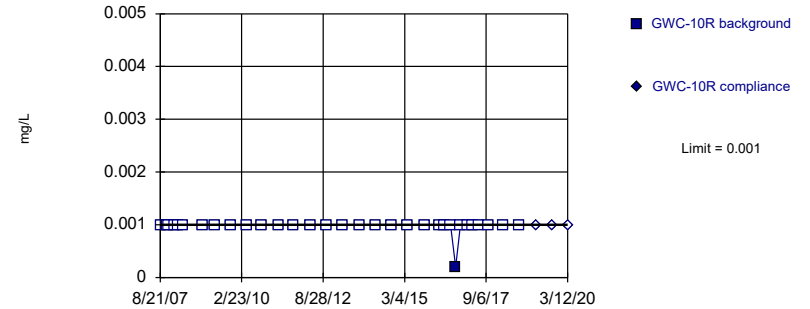


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	8.8E-05 (J)	
6/18/2015	<0.003 (D)	
7/2/2015	<0.003	
10/9/2015	<0.003	
3/29/2016	<0.003	
5/24/2016	<0.003	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/14/2016	<0.003	
2/1/2017	<0.003	
4/6/2017	<0.003	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/20/2018	6.8E-05 (J)	
9/17/2018	5.8E-05 (J)	
3/21/2019		7.6E-05 (J)
9/16/2019		<0.003
3/12/2020		9.3E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/2/2014	<0.003	
4/3/2015	<0.003	
10/8/2015	0.00025 (J)	
3/30/2016	<0.003	
5/24/2016	<0.003	
8/2/2016	<0.003	
9/27/2016	<0.003	
11/22/2016	<0.003	
2/6/2017	<0.003	
4/6/2017	<0.003	
6/14/2017	<0.003	
10/4/2017	<0.003	
3/21/2018	<0.003	
9/18/2018	<0.003	
3/27/2019		<0.003
9/16/2019		<0.003 (D)
3/12/2020		<0.003

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.001	
10/23/2007	<0.001	
11/18/2007	<0.001	
1/30/2008	<0.001	
3/10/2008	<0.001	
5/13/2008	<0.001	
12/5/2008	<0.001	
4/15/2009	<0.001	
10/7/2009	<0.001	
5/3/2010	<0.001	
10/12/2010	<0.001	
4/27/2011	<0.001	
10/17/2011	<0.001	
5/2/2012	<0.001	
10/8/2012	<0.001	
4/12/2013	<0.001	
10/16/2013	<0.001	
4/11/2014	<0.001	
9/30/2014	<0.001	
3/30/2015	<0.001	
10/13/2015	0.0003 (J)	
3/22/2016	<0.001	
5/19/2016	<0.001	
7/29/2016	<0.001	
9/23/2016	<0.001	
11/9/2016	<0.001	
1/30/2017	<0.001	
3/30/2017	<0.001	
6/9/2017	<0.001	
10/2/2017	<0.001	
3/16/2018	<0.001	
9/17/2018	0.00076 (D)	
3/20/2019		<0.001
9/12/2019		<0.001
3/11/2020		<0.001

Prediction Limit

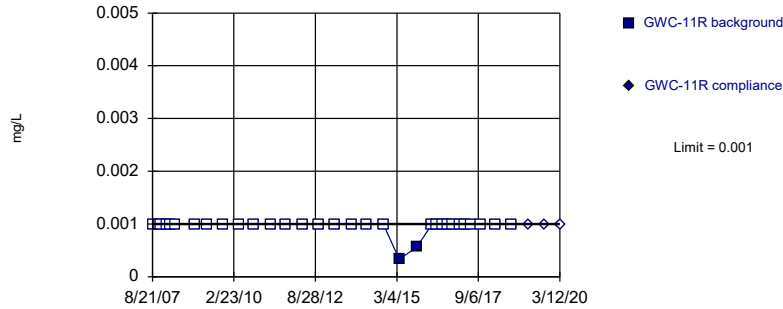
Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	<0.001	
11/1/2007	<0.001	
11/20/2007	<0.001	
1/30/2008	<0.001	
3/6/2008	<0.001	
5/8/2008	<0.001	
12/14/2008	<0.001	
4/29/2009	<0.001	
10/21/2009	<0.001	
4/21/2010	<0.001	
9/28/2010	<0.001	
4/12/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
10/8/2012	<0.001	
4/3/2013	<0.001	
10/15/2013	<0.001	
4/9/2014	<0.001	
10/2/2014	<0.001	
4/2/2015	<0.001	
10/12/2015	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
8/3/2016	<0.001	
9/28/2016	0.0002 (J)	
11/22/2016	<0.001	
2/7/2017	<0.001	
4/10/2017	<0.001	
6/14/2017	<0.001	
10/4/2017	<0.001	
3/21/2018	<0.001	
9/18/2018	<0.001	
3/22/2019		<0.001
9/17/2019		<0.001
3/12/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

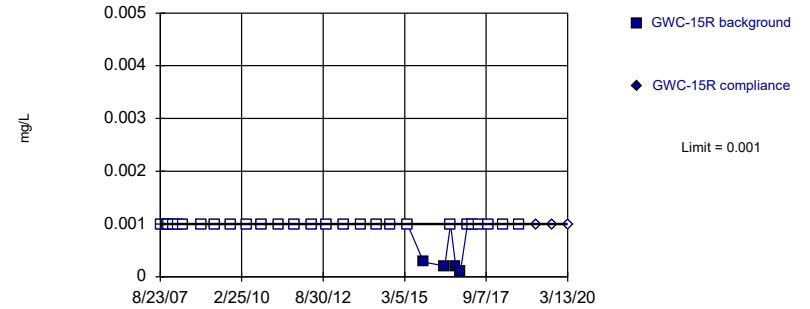


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

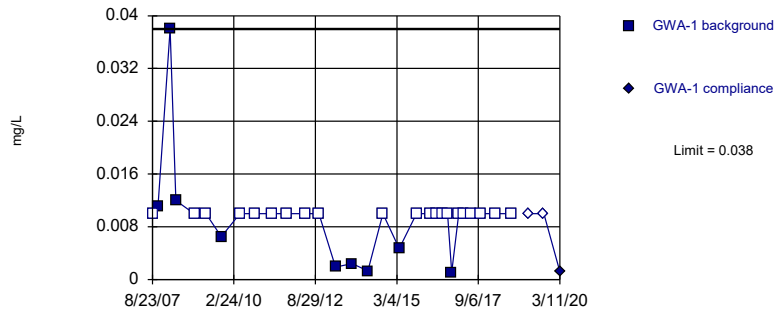


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

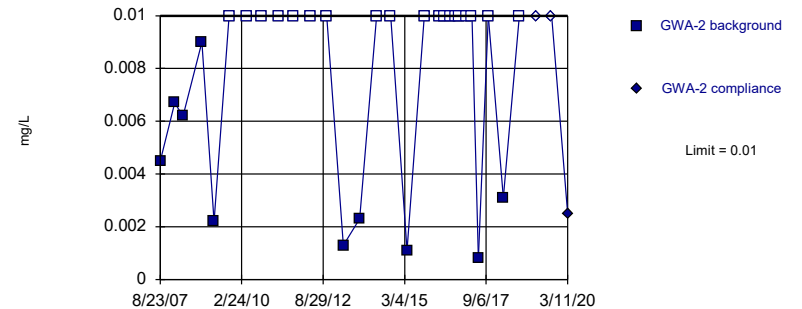


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 70% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 29 background values. 65.52% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.001	
11/1/2007	<0.001	
11/18/2007	<0.001	
1/30/2008	<0.001	
3/6/2008	<0.001	
5/7/2008	<0.001	
12/14/2008	<0.001	
4/29/2009	<0.001	
10/22/2009	<0.001	
4/21/2010	<0.001	
9/29/2010	<0.001	
4/13/2011	<0.001	
10/4/2011	<0.001	
4/4/2012	<0.001	
10/3/2012	<0.001	
4/3/2013	<0.001	
10/9/2013	<0.001	
4/2/2014	<0.001	
10/2/2014	<0.001	
4/1/2015	0.00033 (J)	
10/11/2015	0.00056 (J)	
4/4/2016	<0.001	
5/26/2016	<0.001	
8/4/2016	<0.001	
9/28/2016	<0.001	
11/22/2016	<0.001	
2/8/2017	<0.001	
4/10/2017	<0.001	
6/15/2017	<0.001	
10/4/2017	<0.001	
3/22/2018	<0.001	
9/18/2018	<0.001	
3/23/2019		<0.001
9/17/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.001	
11/2/2007	<0.001	
11/17/2007	<0.001	
1/15/2008	<0.001	
3/6/2008	<0.001	
5/7/2008	<0.001	
12/2/2008	<0.001	
4/28/2009	<0.001	
10/19/2009	<0.001	
4/27/2010	<0.001	
10/4/2010	<0.001	
4/18/2011	<0.001	
10/12/2011	<0.001	
4/23/2012	<0.001	
10/10/2012	<0.001	
4/15/2013	<0.001	
10/22/2013	<0.001	
4/21/2014	<0.001	
9/30/2014	<0.001	
4/3/2015	<0.001	
10/7/2015	0.00028 (J)	
4/5/2016	0.027 (o)	
5/31/2016	0.000206 (J)	
8/4/2016	<0.001	
9/29/2016	0.0002 (J)	
11/23/2016	0.0001 (J)	
2/10/2017	<0.001	
4/12/2017	<0.001	
6/15/2017	<0.001	
10/6/2017	<0.001	
3/23/2018	<0.001	
9/19/2018	<0.001	
3/25/2019		<0.001
9/17/2019		<0.001
3/13/2020		<0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.01	
10/23/2007	0.011	
11/18/2007	0.038 (o)	
1/30/2008	0.11 (O)	
3/10/2008	0.038	
5/13/2008	0.012	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/7/2009	0.0065	
5/3/2010	<0.01	
10/12/2010	<0.01	
4/27/2011	<0.01	
10/17/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/12/2013	0.0019	
10/16/2013	0.0024	
4/11/2014	0.0013 (J)	
9/30/2014	<0.01	
3/30/2015	0.0047	
10/13/2015	<0.01	
3/22/2016	<0.01	
5/19/2016	<0.01	
7/29/2016	<0.01	
9/23/2016	<0.01	
11/9/2016	0.0011 (J)	
1/30/2017	<0.01	
3/30/2017	<0.01	
6/9/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01 (D)	
3/20/2019		<0.01
9/12/2019		<0.01
3/11/2020		0.0012 (J)

Prediction Limit

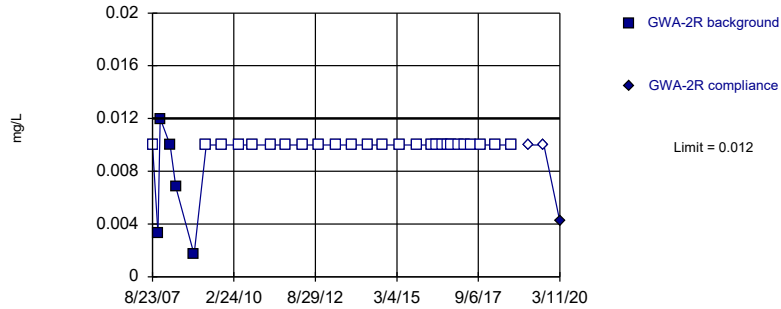
Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	0.0045	
10/24/2007	0.039 (o)	
11/18/2007	0.059 (o)	
1/31/2008	0.0067	
3/11/2008	0.03 (o)	
5/6/2008	0.0062	
12/4/2008	0.009	
4/21/2009	0.0022	
10/7/2009	<0.01	
4/26/2010	<0.01	
10/4/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	0.0013	
10/15/2013	0.0023	
4/22/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.0011 (J)	
10/13/2015	<0.01	
3/23/2016	<0.01	
5/20/2016	<0.01	
7/29/2016	<0.01	
9/23/2016	<0.01	
11/9/2016	<0.01	
1/31/2017	<0.01	
3/30/2017	<0.01	
6/12/2017	0.0008 (J)	
10/2/2017	<0.01	
3/19/2018	0.0031 (J)	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		<0.01 (D)
3/11/2020		0.0025 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

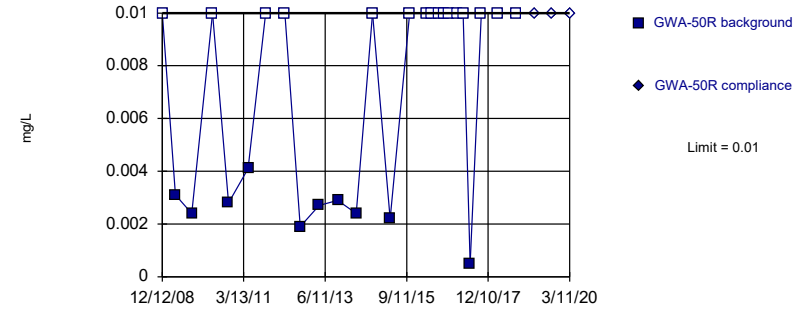


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

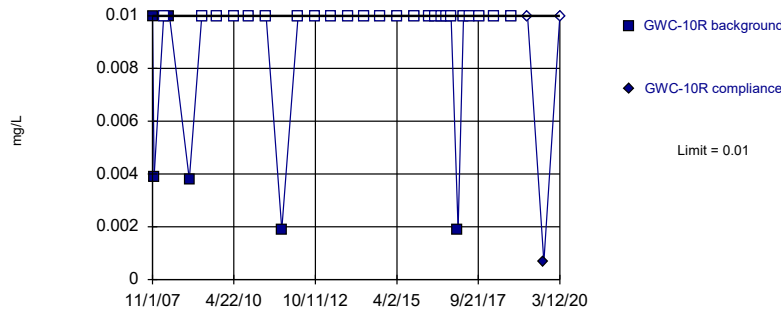


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

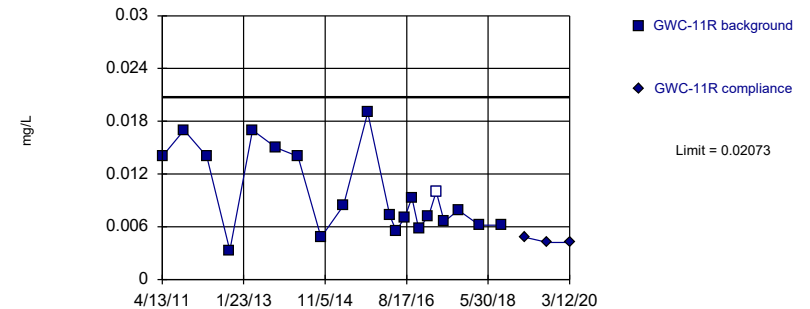


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.009791, Std. Dev.=0.004649, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8988, critical = 0.873. Kappa = 2.354 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.01	
10/24/2007	0.0033	
11/18/2007	0.012	
1/31/2008	0.052 (O)	
3/10/2008	0.01	
5/13/2008	0.0068	
12/4/2008	0.0017	
4/21/2009	<0.01	
10/8/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/10/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	<0.01	
10/13/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/29/2016	<0.01	
9/22/2016	<0.01	
11/10/2016	<0.01	
1/31/2017	<0.01	
4/3/2017	<0.01	
6/9/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		<0.01
9/13/2019		<0.01
3/11/2020		0.0042 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.01	
4/23/2009	0.0031	
10/6/2009	0.0024	
5/3/2010	<0.01	
10/11/2010	0.0028	
4/27/2011	0.0041	
10/19/2011	<0.01	
5/1/2012	<0.01	
10/2/2012	0.0019	
4/10/2013	0.0027	
10/16/2013	0.0029	
4/22/2014	0.0024	
10/1/2014	<0.01	
3/30/2015	0.0022	
10/11/2015	<0.01	
3/28/2016	<0.01	
5/25/2016	<0.01	
8/1/2016	<0.01	
9/26/2016	<0.01	
11/11/2016	<0.01	
1/30/2017	<0.01	
4/3/2017	<0.01	
6/12/2017	0.0005 (J)	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/18/2018	<0.01	
3/19/2019		<0.01
9/12/2019		<0.01
3/11/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	0.036 (o)	
11/1/2007	0.01	
11/20/2007	0.0039	
1/30/2008	0.019 (o)	
3/6/2008	<0.01	
5/8/2008	0.01	
12/14/2008	0.0038	
4/29/2009	<0.01	
10/21/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	0.0019	
4/3/2012	<0.01	
10/8/2012	<0.01	
4/3/2013	<0.01	
10/15/2013	<0.01	
4/9/2014	<0.01	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/12/2015	<0.01	
3/31/2016	<0.01	
5/26/2016	<0.01	
8/3/2016	<0.01	
9/28/2016	<0.01	
11/22/2016	<0.01	
2/7/2017	0.0019 (J)	
4/10/2017	<0.01	
6/14/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.00067 (J)
3/12/2020		<0.01

Prediction Limit

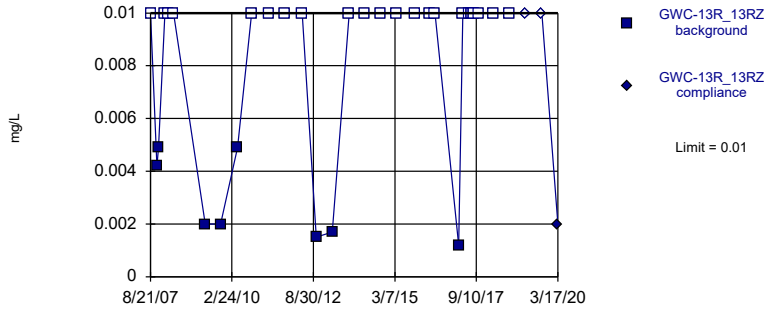
Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	0.037	
11/1/2007	0.04	
11/18/2007	0.045	
1/30/2008	0.041	
3/6/2008	0.042	
5/7/2008	0.029	
12/14/2008	0.032	
4/29/2009	0.017	
10/22/2009	0.022	
4/21/2010	0.021	
9/29/2010	0.024	
4/13/2011	0.014	
10/4/2011	0.017	
4/4/2012	0.014	
10/3/2012	0.0033	
4/3/2013	0.017	
10/9/2013	0.015	
4/2/2014	0.014	
10/2/2014	0.0048	
4/1/2015	0.0084	
10/11/2015	0.019	
4/4/2016	0.00728 (J)	
5/26/2016	0.00553 (J)	
8/4/2016	0.0071 (J)	
9/28/2016	0.0093 (J)	
11/22/2016	0.0058 (J)	
2/8/2017	0.0072 (J)	
4/10/2017	<0.01	
6/15/2017	0.0066 (J)	
10/4/2017	0.0079 (J)	
3/22/2018	0.0062 (J)	
9/18/2018	0.0062 (J)	
3/23/2019		0.0048 (J)
9/17/2019		0.0042 (J)
3/12/2020		0.0042 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

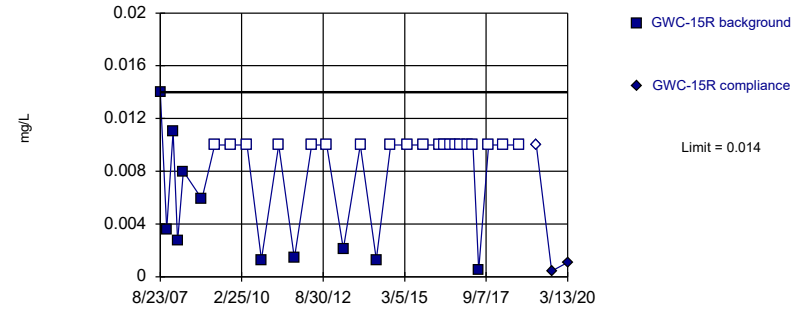


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 74.19% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

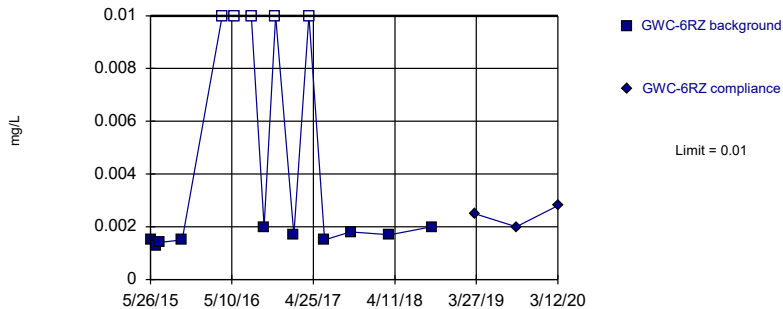


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 64.52% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

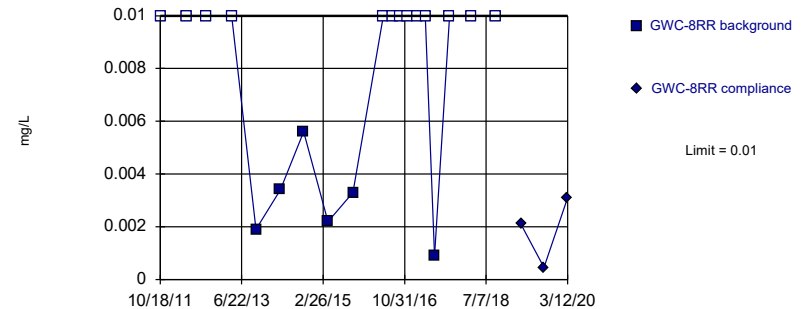


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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: Chromium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	0.0042	
11/19/2007	0.0049	
1/31/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/12/2008	0.019 (o)	
4/29/2009	0.002	
10/21/2009	0.002	
4/28/2010	0.0049	
10/6/2010	<0.01	
4/20/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	0.0015	
4/2/2013	0.0017	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01 (D)	
6/1/2016	<0.01 (D)	
2/22/2017	0.0012 (J)	
4/11/2017	<0.01	
6/16/2017	<0.01	
7/12/2017	<0.01	
7/28/2017	<0.01	
8/10/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		0.002 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.014	
11/2/2007	0.0036	
11/17/2007	0.031 (o)	
1/15/2008	0.011	
3/6/2008	0.0027	
5/7/2008	0.008	
12/2/2008	0.0059	
4/28/2009	<0.01	
10/19/2009	<0.01	
4/27/2010	<0.01	
10/4/2010	0.0013	
4/18/2011	<0.01	
10/12/2011	0.0014	
4/23/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	0.0021	
10/22/2013	<0.01	
4/21/2014	0.0013 (J)	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
5/31/2016	<0.01	
8/4/2016	<0.01	
9/29/2016	<0.01	
11/23/2016	<0.01	
2/10/2017	<0.01	
4/12/2017	<0.01	
6/15/2017	0.0005 (J)	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/25/2019		<0.01
9/17/2019		0.00044 (J)
3/13/2020		0.0011 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	0.0015	
6/18/2015	0.0013 (D)	
7/2/2015	0.0014	
10/9/2015	0.0015	
3/29/2016	<0.01	
5/24/2016	<0.01	
8/1/2016	<0.01	
9/26/2016	0.002 (J)	
11/14/2016	<0.01	
2/1/2017	0.0017 (J)	
4/6/2017	<0.01	
6/13/2017	0.0015 (J)	
10/3/2017	0.0018 (J)	
3/20/2018	0.0017 (J)	
9/17/2018	0.002 (J)	
3/21/2019		0.0025 (J)
9/16/2019		0.002 (J)
3/12/2020		0.0028 (J)

Prediction Limit

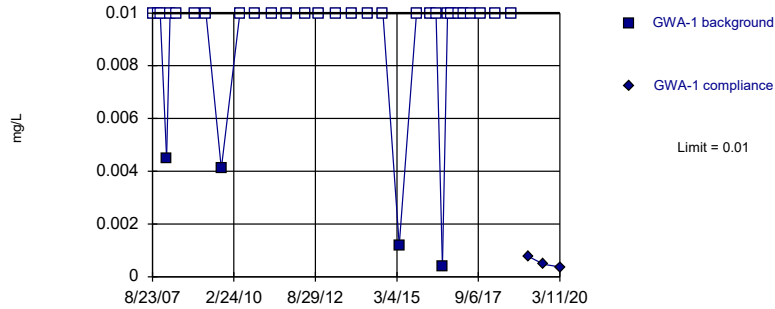
Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.01	
4/30/2012	<0.01	
10/3/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	0.0019	
4/10/2014	0.0034	
10/2/2014	0.0056	
4/3/2015	0.0022	
10/8/2015	0.0033	
3/30/2016	0.0228 (o)	
5/24/2016	<0.01	
8/2/2016	<0.01	
9/27/2016	<0.01	
11/22/2016	<0.01	
2/6/2017	<0.01	
4/6/2017	<0.01	
6/14/2017	0.0009 (J)	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/27/2019		0.0021 (J)
9/16/2019		0.000465 (JD)
3/12/2020		0.0031 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

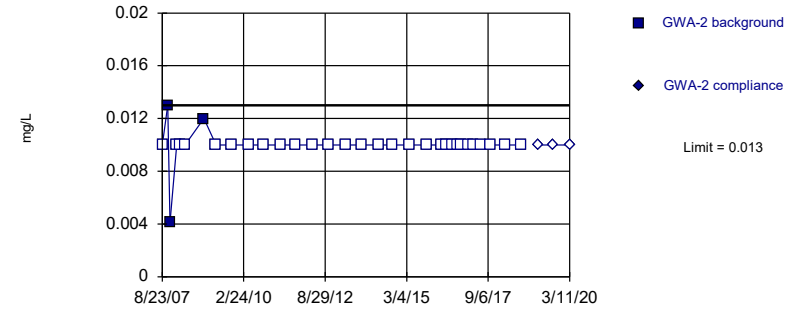


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

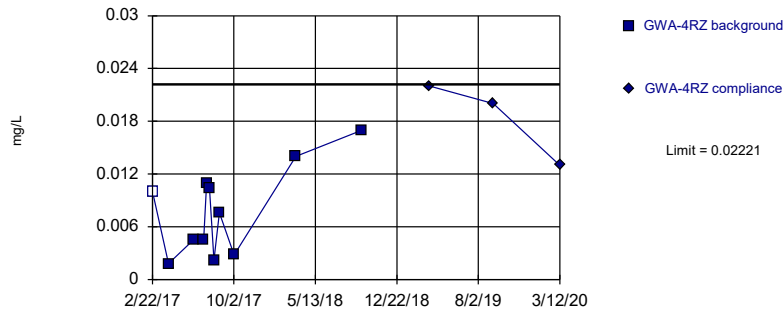


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

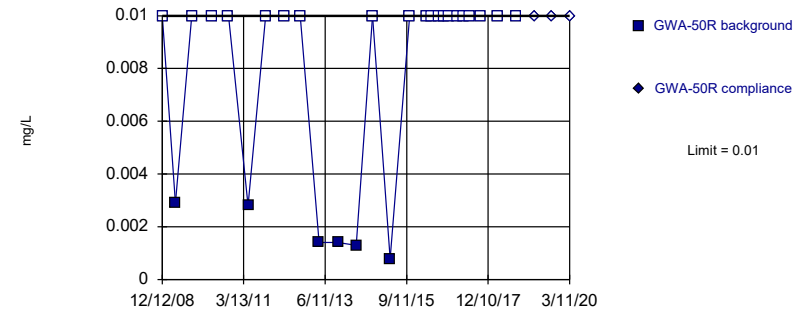


Background Data Summary: Mean=0.0078, Std. Dev.=0.005078, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9288, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 26 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.01	
10/23/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	0.0045	
3/10/2008	<0.01	
5/13/2008	<0.01	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/7/2009	0.0041	
5/3/2010	<0.01	
10/12/2010	<0.01	
4/27/2011	<0.01	
10/17/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/12/2013	<0.01	
10/16/2013	<0.01	
4/11/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.0012 (J)	
10/13/2015	<0.01	
3/22/2016	<0.01	
5/19/2016	<0.01	
7/29/2016	0.0004 (J)	
9/23/2016	<0.01	
11/9/2016	<0.01	
1/30/2017	<0.01	
3/30/2017	<0.01	
6/9/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01 (D)	
3/20/2019		0.00078 (J)
9/12/2019		0.00047 (J)
3/11/2020		0.00037 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.01	
10/24/2007	0.013	
11/18/2007	0.0041	
1/31/2008	<0.01	
3/11/2008	<0.01	
5/6/2008	<0.01	
12/4/2008	0.012	
4/21/2009	<0.01	
10/7/2009	<0.01	
4/26/2010	<0.01	
10/4/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	<0.01	
10/15/2013	<0.01	
4/22/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	<0.01	
10/13/2015	<0.01	
3/23/2016	<0.01	
5/20/2016	<0.01	
7/29/2016	<0.01	
9/23/2016	<0.01	
11/9/2016	<0.01	
1/31/2017	<0.01	
3/30/2017	<0.01	
6/12/2017	<0.01	
10/2/2017	<0.01	
3/19/2018	<0.01	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		<0.01 (D)
3/11/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	<0.01	
4/7/2017	0.0018 (J)	
6/14/2017	0.0045 (J)	
7/12/2017	0.0046 (J)	
7/20/2017	0.0109	
7/28/2017	0.0104	
8/9/2017	0.0022 (J)	
8/24/2017	0.0076 (J)	
10/3/2017	0.0028 (J)	
3/21/2018	0.014	
9/18/2018	0.017	
3/21/2019		0.022
9/12/2019		0.02
3/12/2020		0.013

Prediction Limit

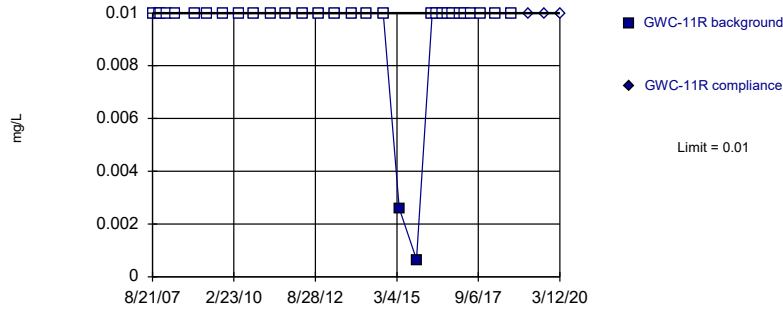
Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.01	
4/23/2009	0.0029	
10/6/2009	<0.01	
5/3/2010	<0.01	
10/11/2010	<0.01	
4/27/2011	0.0028	
10/19/2011	<0.01	
5/1/2012	<0.01	
10/2/2012	<0.01	
4/10/2013	0.0014	
10/16/2013	0.0014	
4/22/2014	0.0013	
10/1/2014	<0.01	
3/30/2015	0.00079 (J)	
10/11/2015	<0.01	
3/28/2016	<0.01	
5/25/2016	<0.01	
8/1/2016	<0.01	
9/26/2016	<0.01	
11/11/2016	<0.01	
1/30/2017	<0.01	
4/3/2017	<0.01	
6/12/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/18/2018	<0.01	
3/19/2019		<0.01
9/12/2019		<0.01
3/11/2020		<0.01

Within Limit

Prediction Limit
 Intrawell Non-parametric

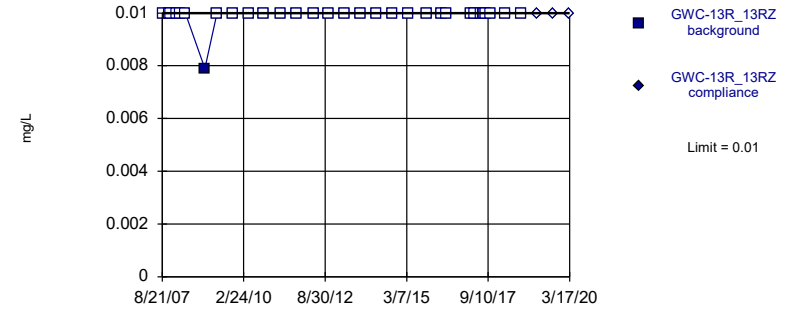


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

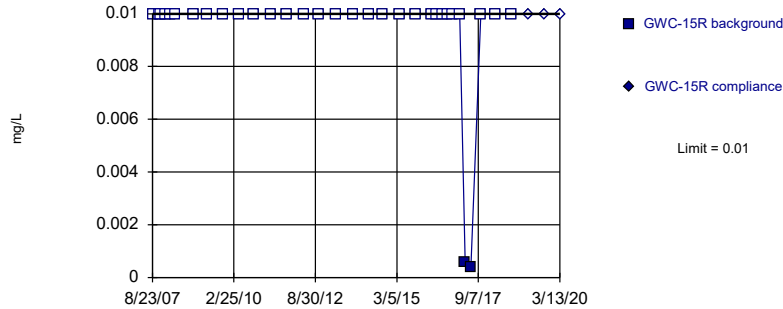


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

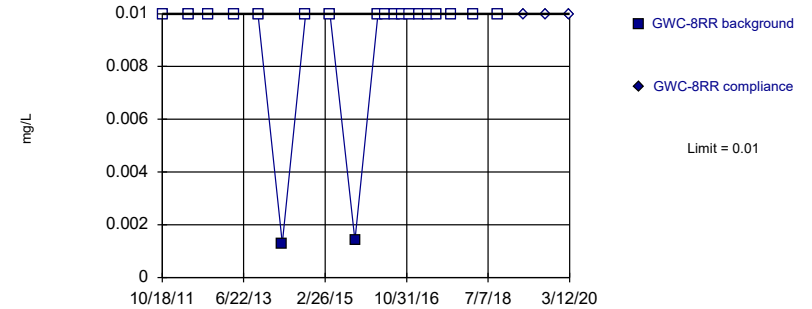


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/6/2008	0.11 (o)	
5/7/2008	<0.01	
12/14/2008	<0.01	
4/29/2009	<0.01	
10/22/2009	<0.01	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	0.0026	
10/11/2015	0.00065 (J)	
4/4/2016	<0.01	
5/26/2016	<0.01	
8/4/2016	<0.01	
9/28/2016	<0.01	
11/22/2016	<0.01	
2/8/2017	<0.01	
4/10/2017	<0.01	
6/15/2017	<0.01	
10/4/2017	<0.01	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/31/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/12/2008	0.0079	
4/29/2009	<0.01	
10/21/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/20/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
6/1/2016	<0.01	
2/22/2017	<0.01	
4/11/2017	<0.01	
6/16/2017	<0.01	
7/12/2017	<0.01	
7/28/2017	<0.01	
8/10/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.01	
11/2/2007	<0.01	
11/17/2007	<0.01	
1/15/2008	<0.01	
3/6/2008	<0.01	
5/7/2008	<0.01	
12/2/2008	<0.01	
4/28/2009	<0.01	
10/19/2009	<0.01	
4/27/2010	<0.01	
10/4/2010	<0.01	
4/18/2011	<0.01	
10/12/2011	<0.01	
4/23/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
5/31/2016	<0.01	
8/4/2016	<0.01	
9/29/2016	<0.01	
11/23/2016	<0.01	
2/10/2017	<0.01	
4/12/2017	0.0006 (J)	
6/15/2017	0.0004 (J)	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/25/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

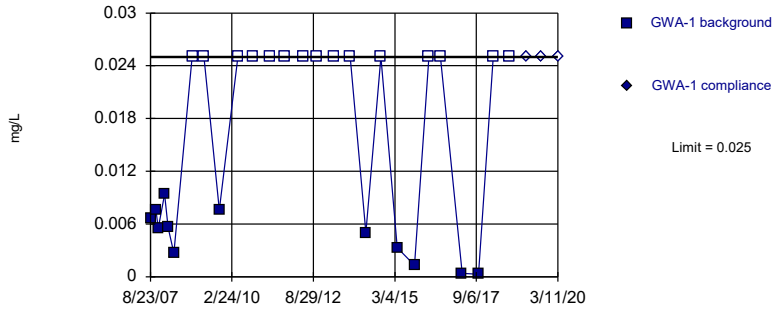
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.01	
4/30/2012	<0.01	
10/3/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	<0.01	
4/10/2014	0.0013 (J)	
10/2/2014	<0.01	
4/3/2015	<0.01	
10/8/2015	0.0014	
3/30/2016	<0.01	
5/24/2016	<0.01	
8/2/2016	<0.01	
9/27/2016	<0.01	
11/22/2016	<0.01	
2/6/2017	<0.01	
4/6/2017	<0.01	
6/14/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/27/2019		<0.01
9/16/2019		<0.01 (D)
3/12/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

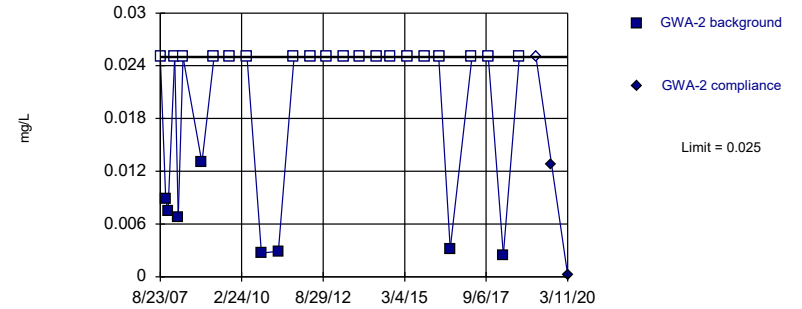


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

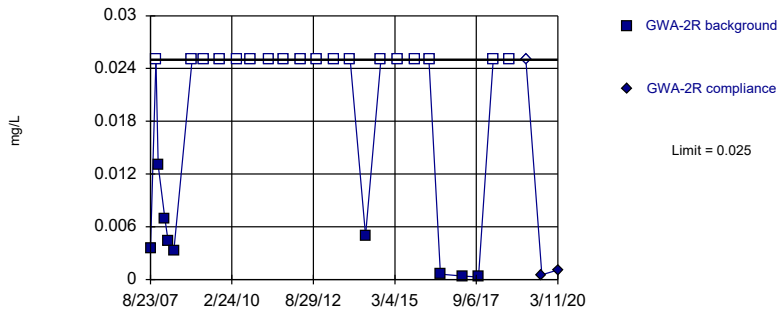


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

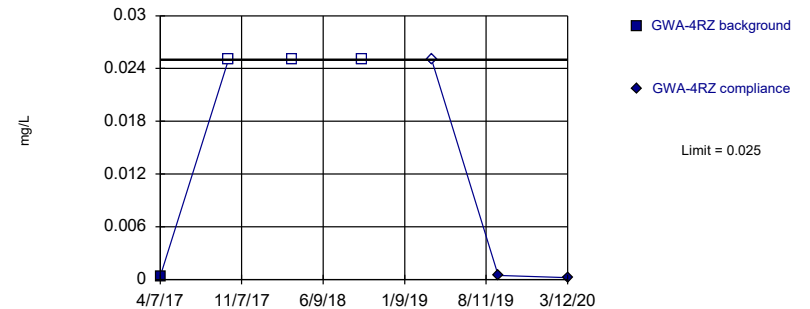


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 4 background values. 75% NDs. Well-constituent pair annual alpha = 0.119. Individual comparison alpha = 0.06138 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	0.0066	
10/23/2007	0.0076	
11/18/2007	0.0055 (J)	
1/30/2008	0.0094	
3/10/2008	0.0056	
5/13/2008	0.0027	
12/5/2008	<0.025	
4/15/2009	<0.025	
10/7/2009	0.0076	
5/3/2010	<0.025	
10/12/2010	<0.025	
4/27/2011	<0.025	
10/17/2011	<0.025	
5/2/2012	<0.025	
10/8/2012	<0.025	
4/12/2013	<0.025	
10/16/2013	<0.025	
4/11/2014	0.005 (J)	
9/30/2014	<0.025	
3/30/2015	0.0033 (J)	
10/13/2015	0.0013 (J)	
3/22/2016	<0.025	
7/29/2016	<0.025	
3/30/2017	0.0004 (J)	
10/2/2017	0.0003 (J)	
3/16/2018	<0.025	
9/17/2018	<0.025 (D)	
3/20/2019		<0.025
9/12/2019		<0.025
3/11/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.025	
10/24/2007	0.0088	
11/18/2007	0.0075	
1/31/2008	<0.025	
3/11/2008	0.0068	
5/6/2008	<0.025	
12/4/2008	0.013	
4/21/2009	<0.025	
10/7/2009	<0.025	
4/26/2010	<0.025	
10/4/2010	0.0027	
4/13/2011	0.0029	
10/5/2011	<0.025	
4/11/2012	<0.025	
10/9/2012	<0.025	
4/15/2013	<0.025	
10/15/2013	<0.025	
4/22/2014	<0.025	
9/30/2014	<0.025	
3/30/2015	<0.025	
10/13/2015	<0.025	
3/23/2016	<0.025	
7/29/2016	0.0032 (J)	
3/30/2017	<0.025	
10/2/2017	<0.025	
3/19/2018	0.0025 (J)	
9/14/2018	<0.025	
3/20/2019		<0.025
9/12/2019		0.01273 (D)
3/11/2020		0.0002 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	0.0036	
10/24/2007	<0.025	
11/18/2007	0.013	
1/31/2008	0.0069	
3/10/2008	0.0044	
5/13/2008	0.0033	
12/4/2008	<0.025	
4/21/2009	<0.025	
10/8/2009	<0.025	
4/21/2010	<0.025	
9/28/2010	<0.025	
4/12/2011	<0.025	
10/4/2011	<0.025	
4/3/2012	<0.025	
10/9/2012	<0.025	
4/11/2013	<0.025	
10/16/2013	<0.025	
4/10/2014	0.005 (J)	
9/30/2014	<0.025	
3/30/2015	<0.025	
10/13/2015	<0.025	
3/23/2016	<0.025	
7/29/2016	0.0006 (J)	
4/3/2017	0.0004 (J)	
10/2/2017	0.0003 (J)	
3/16/2018	<0.025	
9/14/2018	<0.025	
3/19/2019		<0.025
9/13/2019		0.00055 (J)
3/11/2020		0.0011 (J)

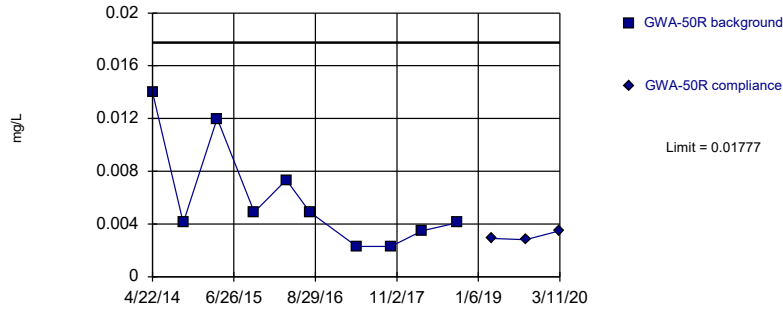
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
4/7/2017	0.0004 (J)	
10/3/2017	<0.025	
3/21/2018	<0.025	
9/18/2018	<0.025	
3/21/2019		<0.025
9/12/2019		0.00045 (J)
3/12/2020		0.0002 (J)

Within Limit

Prediction Limit
Intrawell Parametric

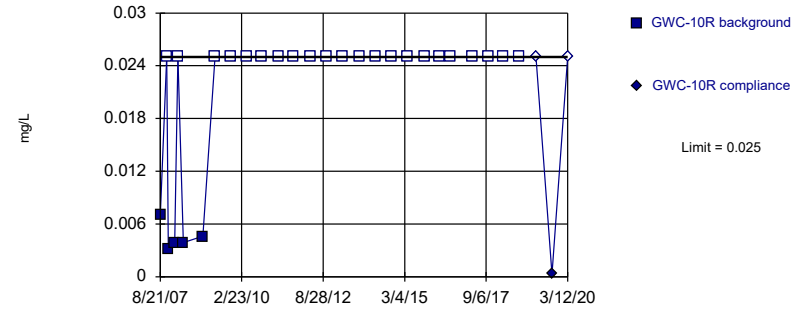


Background Data Summary: Mean=0.005944, Std. Dev.=0.004014, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.813, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

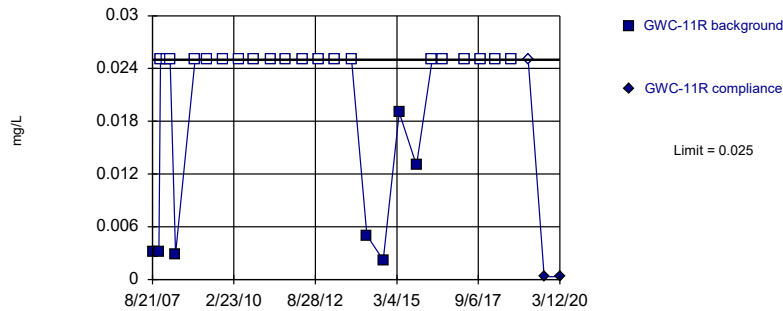


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

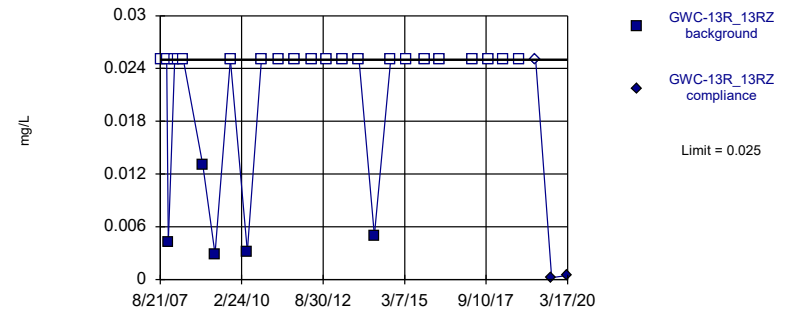


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	0.064 (O)	
4/23/2009	0.034	
10/6/2009	0.026	
5/3/2010	0.014	
10/11/2010	0.014	
4/27/2011	0.028	
10/19/2011	<0.013	
5/1/2012	0.0198	
10/2/2012	0.011	
4/10/2013	0.018	
10/16/2013	0.016	
4/22/2014	0.014	
10/1/2014	0.0041 (J)	
3/30/2015	0.012	
10/11/2015	0.0049 (J)	
3/28/2016	0.00734 (J)	
8/1/2016	0.0049 (J)	
4/3/2017	0.0023 (J)	
10/2/2017	0.0023 (J)	
3/16/2018	0.0035 (J)	
9/18/2018	0.0041 (J)	
3/19/2019		0.0029 (J)
9/12/2019		0.0028 (J)
3/11/2020		0.0035 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	0.007	
11/1/2007	<0.025	
11/20/2007	0.0032	
1/30/2008	0.0039	
3/6/2008	<0.025	
5/8/2008	0.0039	
12/14/2008	0.0046	
4/29/2009	<0.025	
10/21/2009	<0.025	
4/21/2010	<0.025	
9/28/2010	<0.025	
4/12/2011	<0.025	
10/4/2011	<0.025	
4/3/2012	<0.025	
10/8/2012	<0.025	
4/3/2013	<0.025	
10/15/2013	<0.025	
4/9/2014	<0.025	
10/2/2014	<0.025	
4/2/2015	<0.025	
10/12/2015	<0.025	
3/31/2016	<0.025	
8/3/2016	<0.025	
4/10/2017	<0.025	
10/4/2017	<0.025	
3/21/2018	<0.025	
9/18/2018	<0.025	
3/22/2019		<0.025
9/17/2019		0.00029 (J)
3/12/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	0.0032	
11/1/2007	0.0031	
11/18/2007	<0.025	
1/30/2008	<0.025	
3/6/2008	<0.025	
5/7/2008	0.0029	
12/14/2008	<0.025	
4/29/2009	<0.025	
10/22/2009	<0.025	
4/21/2010	<0.025	
9/29/2010	<0.025	
4/13/2011	<0.025	
10/4/2011	<0.025	
4/4/2012	<0.025	
10/3/2012	<0.025	
4/3/2013	<0.025	
10/9/2013	<0.025	
4/2/2014	0.005 (J)	
10/2/2014	0.0022 (J)	
4/1/2015	0.019	
10/11/2015	0.013	
4/4/2016	<0.025	
8/4/2016	<0.025	
4/10/2017	<0.025	
10/4/2017	<0.025	
3/22/2018	<0.025	
9/18/2018	<0.025	
3/23/2019		<0.025
9/17/2019		0.00031 (J)
3/12/2020		0.00032 (J)

Prediction Limit

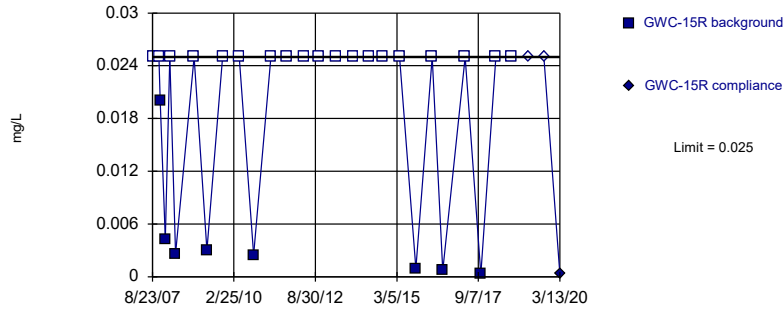
Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.025	
11/1/2007	<0.025	
11/19/2007	0.0043	
1/31/2008	<0.025	
3/5/2008	<0.025	
5/7/2008	<0.025	
12/12/2008	0.013	
4/29/2009	0.0029	
10/21/2009	<0.025	
4/28/2010	0.0032	
10/6/2010	<0.025	
4/20/2011	<0.025	
10/12/2011	<0.025	
4/25/2012	<0.025	
10/2/2012	<0.025	
4/2/2013	<0.025	
10/8/2013	<0.025	
4/1/2014	0.005 (J)	
10/1/2014	<0.025	
3/31/2015	<0.025	
10/14/2015	<0.025	
4/4/2016	<0.025	
4/11/2017	<0.025	
10/6/2017	<0.025	
3/23/2018	<0.025	
9/20/2018	<0.025	
3/22/2019		<0.025
9/18/2019		0.00021 (X)
3/17/2020		0.00045 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

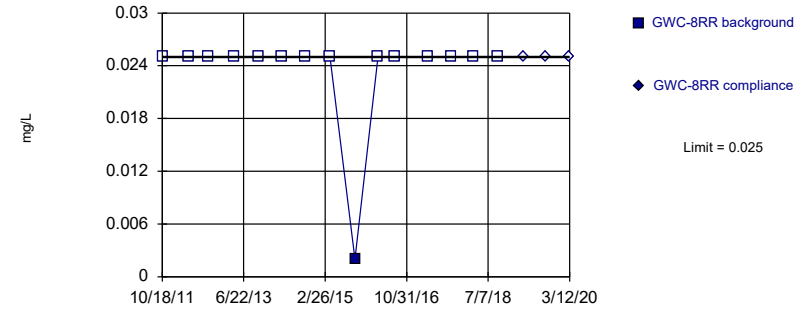


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

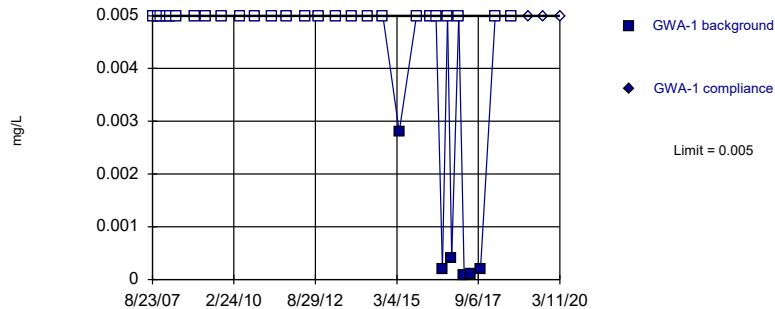


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

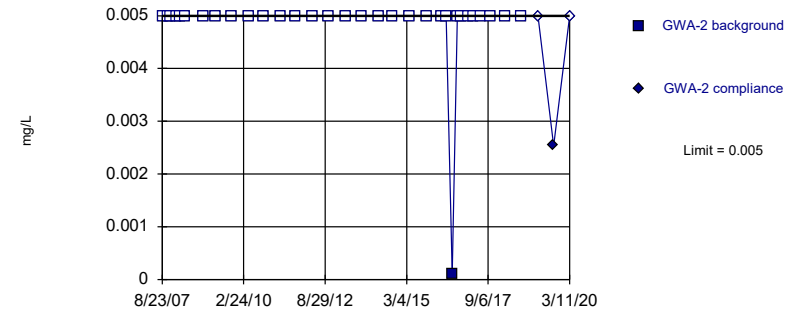


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.025	
11/2/2007	<0.025	
11/17/2007	0.02	
1/15/2008	0.0043	
3/6/2008	<0.025	
5/7/2008	0.0026	
12/2/2008	<0.025	
4/28/2009	0.003	
10/19/2009	<0.025	
4/27/2010	<0.025	
10/4/2010	0.0025	
4/18/2011	<0.025	
10/12/2011	<0.025	
4/23/2012	<0.025	
10/10/2012	<0.025	
4/15/2013	<0.025	
10/22/2013	<0.025	
4/21/2014	<0.025	
9/30/2014	<0.025	
4/3/2015	<0.025	
10/7/2015	0.00093 (J)	
4/5/2016	<0.025	
8/4/2016	0.0007 (J)	
4/12/2017	<0.025	
10/6/2017	0.0003 (J)	
3/23/2018	<0.025	
9/19/2018	<0.025	
3/25/2019		<0.025
9/17/2019		<0.025
3/13/2020		0.00029 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.025	
4/30/2012	<0.025	
10/3/2012	<0.025	
4/8/2013	<0.025	
10/9/2013	<0.025	
4/10/2014	<0.025	
10/2/2014	<0.025	
4/3/2015	<0.025	
10/8/2015	0.002 (J)	
3/30/2016	<0.025	
8/2/2016	<0.025	
4/6/2017	<0.025	
10/4/2017	<0.025	
3/21/2018	<0.025	
9/18/2018	<0.025	
3/27/2019		<0.025
9/16/2019		<0.025 (D)
3/12/2020		<0.025

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.005	
10/23/2007	<0.005	
11/18/2007	<0.005	
1/30/2008	<0.005	
3/10/2008	<0.005	
5/13/2008	<0.005	
12/5/2008	<0.005	
4/15/2009	<0.005	
10/7/2009	<0.005	
5/3/2010	<0.005	
10/12/2010	<0.005	
4/27/2011	<0.005	
10/17/2011	<0.005	
5/2/2012	<0.005	
10/8/2012	<0.005	
4/12/2013	<0.005	
10/16/2013	<0.005	
4/11/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	0.0028 (J)	
10/13/2015	<0.005	
3/22/2016	<0.005	
5/19/2016	<0.005	
7/29/2016	0.0002 (J)	
9/23/2016	<0.005	
11/9/2016	0.0004 (J)	
1/30/2017	<0.005	
3/30/2017	8E-05 (J)	
6/9/2017	0.0001 (J)	
10/2/2017	0.0002 (J)	
3/16/2018	<0.005	
9/17/2018	<0.005 (D)	
3/20/2019		<0.005
9/12/2019		<0.005
3/11/2020		<0.005

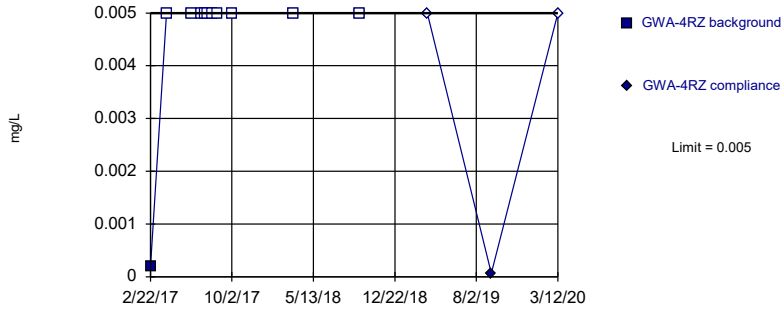
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.005	
10/24/2007	<0.005	
11/18/2007	<0.005	
1/31/2008	<0.005	
3/11/2008	<0.005	
5/6/2008	<0.005	
12/4/2008	<0.005	
4/21/2009	<0.005	
10/7/2009	<0.005	
4/26/2010	<0.005	
10/4/2010	<0.005	
4/13/2011	<0.005	
10/5/2011	<0.005	
4/11/2012	<0.005	
10/9/2012	<0.005	
4/15/2013	<0.005	
10/15/2013	<0.005	
4/22/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	<0.005	
10/13/2015	<0.005	
3/23/2016	<0.005	
5/20/2016	<0.005	
7/29/2016	0.0001 (J)	
9/23/2016	<0.005	
11/9/2016	<0.005	
1/31/2017	<0.005	
3/30/2017	<0.005	
6/12/2017	<0.005	
10/2/2017	<0.005	
3/19/2018	<0.005	
9/14/2018	<0.005	
3/20/2019		<0.005
9/12/2019		0.002536 (D)
3/11/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

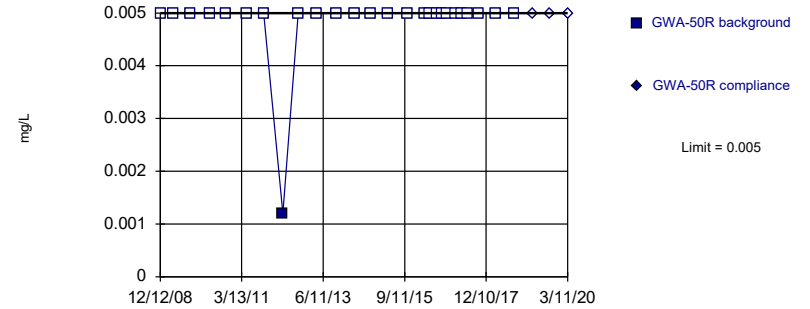


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

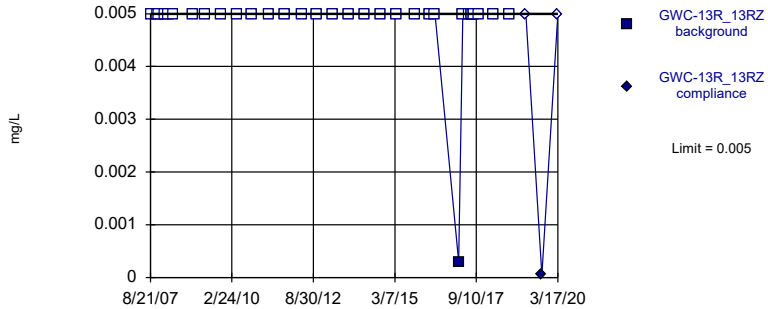


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

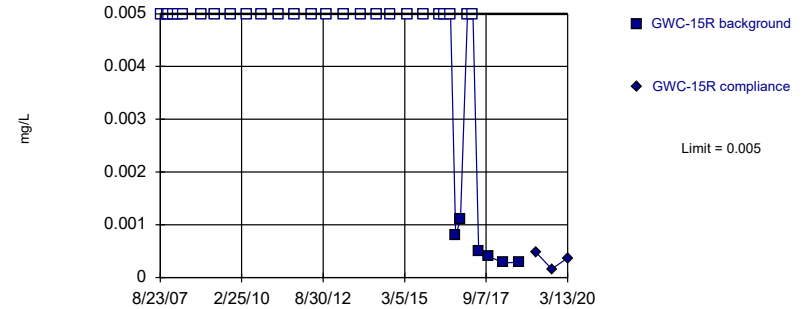


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	0.0002 (J)	
4/7/2017	<0.005	
6/14/2017	<0.005	
7/12/2017	<0.005	
7/20/2017	<0.005	
7/28/2017	<0.005	
8/9/2017	<0.005	
8/24/2017	<0.005	
10/3/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/21/2019		<0.005
9/12/2019		6.5E-05 (J)
3/12/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.005	
4/23/2009	<0.005	
10/6/2009	<0.005	
5/3/2010	<0.005	
10/11/2010	<0.005	
4/27/2011	<0.005	
10/19/2011	<0.005	
5/1/2012	0.0012	
10/2/2012	<0.005	
4/10/2013	<0.005	
10/16/2013	<0.005	
4/22/2014	<0.005	
10/1/2014	<0.005	
3/30/2015	<0.005	
10/11/2015	<0.005	
3/28/2016	<0.005	
5/25/2016	<0.005	
8/1/2016	<0.005	
9/26/2016	<0.005	
11/11/2016	<0.005	
1/30/2017	<0.005	
4/3/2017	<0.005	
6/12/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/18/2018	<0.005	
3/19/2019		<0.005
9/12/2019		<0.005
3/11/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/12/2008	<0.005	
4/29/2009	<0.005	
10/21/2009	<0.005	
4/28/2010	<0.005	
10/6/2010	<0.005	
4/20/2011	<0.005	
10/12/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/8/2013	<0.005	
4/1/2014	<0.005	
10/1/2014	<0.005	
3/31/2015	<0.005	
10/14/2015	<0.005	
4/4/2016	<0.005	
6/1/2016	<0.005	
2/22/2017	0.0003 (J)	
4/11/2017	<0.005	
6/16/2017	<0.005	
7/12/2017	<0.005	
7/28/2017	<0.005	
8/10/2017	<0.005	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/20/2018	<0.005	
3/22/2019		<0.005
9/18/2019		4.8E-05 (X)
3/17/2020		<0.005

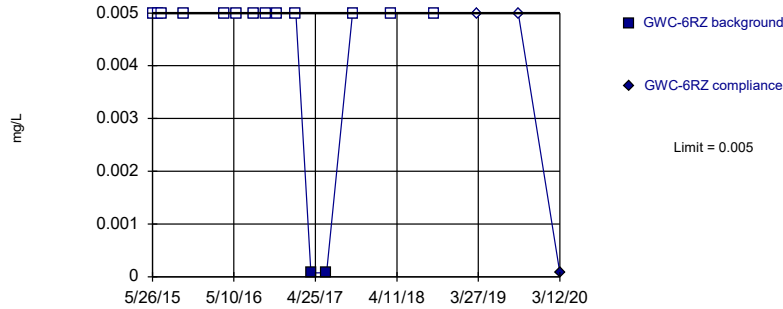
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.005	
11/2/2007	<0.005	
11/17/2007	<0.005	
1/15/2008	<0.005	
3/6/2008	<0.005	
5/7/2008	<0.005	
12/2/2008	<0.005	
4/28/2009	<0.005	
10/19/2009	<0.005	
4/27/2010	<0.005	
10/4/2010	<0.005	
4/18/2011	<0.005	
10/12/2011	<0.005	
4/23/2012	<0.005	
10/10/2012	<0.005	
4/15/2013	<0.005	
10/22/2013	<0.005	
4/21/2014	<0.005	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/7/2015	<0.005	
4/5/2016	<0.005	
5/31/2016	<0.005	
8/4/2016	<0.005	
9/29/2016	0.0008 (J)	
11/23/2016	0.0011 (J)	
2/10/2017	<0.005	
4/12/2017	<0.005	
6/15/2017	0.0005 (J)	
10/6/2017	0.0004 (J)	
3/23/2018	0.00028 (J)	
9/19/2018	0.00029 (J)	
3/25/2019		0.00047 (J)
9/17/2019		0.00016 (J)
3/13/2020		0.00037 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

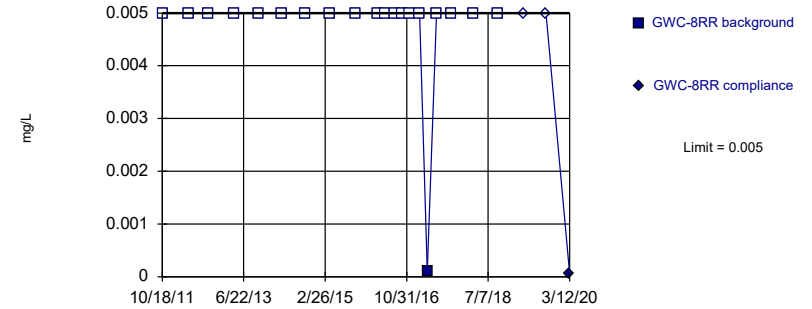


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

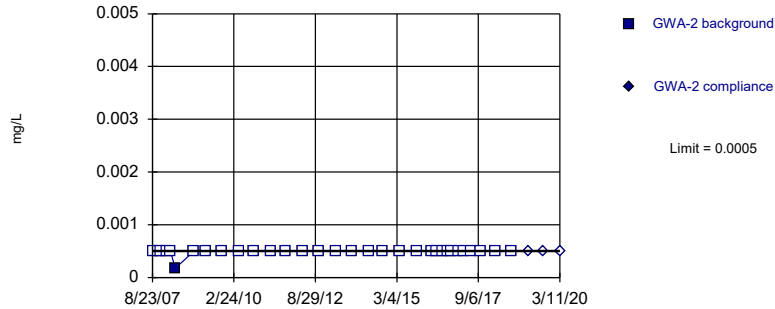


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

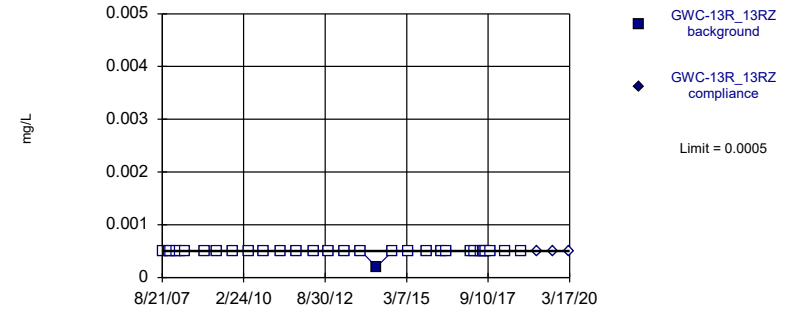


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	<0.005	
6/18/2015	<0.005 (D)	
7/2/2015	<0.005	
10/9/2015	<0.005	
3/29/2016	<0.005	
5/24/2016	<0.005	
8/1/2016	<0.005	
9/26/2016	<0.005	
11/14/2016	<0.005	
2/1/2017	<0.005	
4/6/2017	7E-05 (J)	
6/13/2017	8E-05 (J)	
10/3/2017	<0.005	
3/20/2018	<0.005	
9/17/2018	<0.005	
3/21/2019		<0.005
9/16/2019		<0.005
3/12/2020		7E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.005	
4/30/2012	<0.005	
10/3/2012	<0.005	
4/8/2013	<0.005	
10/9/2013	<0.005	
4/10/2014	<0.005	
10/2/2014	<0.005	
4/3/2015	<0.005	
10/8/2015	<0.005	
3/30/2016	<0.005	
5/24/2016	<0.005	
8/2/2016	<0.005	
9/27/2016	<0.005	
11/22/2016	<0.005	
2/6/2017	<0.005	
4/6/2017	0.0001 (J)	
6/14/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/27/2019		<0.005
9/16/2019		<0.005 (D)
3/12/2020		5.6E-05 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.0005	
10/24/2007	<0.0005	
11/18/2007	<0.0005	
1/31/2008	<0.0005	
3/11/2008	<0.0005	
5/6/2008	0.000175	
12/4/2008	<0.0005	
4/21/2009	<0.0005	
10/7/2009	<0.0005	
4/26/2010	<0.0005	
10/4/2010	<0.0005	
4/13/2011	<0.0005	
10/5/2011	<0.0005	
4/11/2012	<0.0005	
10/9/2012	<0.0005	
4/15/2013	<0.0005	
10/15/2013	<0.0005	
4/22/2014	<0.0005	
9/30/2014	<0.0005	
3/30/2015	<0.0005	
10/13/2015	<0.0005	
3/23/2016	<0.0005	
5/20/2016	<0.0005	
7/29/2016	<0.0005	
9/23/2016	<0.0005	
11/9/2016	<0.0005	
1/31/2017	<0.0005	
3/30/2017	<0.0005	
6/12/2017	<0.0005	
10/2/2017	<0.0005	
3/19/2018	<0.0005	
9/14/2018	<0.0005	
3/20/2019		<0.0005
9/12/2019		<0.0005 (D)
3/11/2020		<0.0005

Prediction Limit

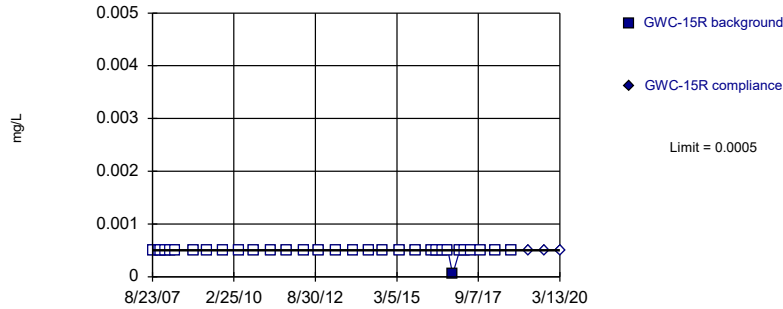
Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.0005	
11/1/2007	<0.0005	
11/19/2007	<0.0005	
1/31/2008	<0.0005	
3/5/2008	<0.0005	
5/7/2008	<0.0005	
12/12/2008	<0.0005	
4/29/2009	<0.0005	
10/21/2009	<0.0005	
4/28/2010	<0.0005	
10/6/2010	<0.0005	
4/20/2011	<0.0005	
10/12/2011	<0.0005	
4/25/2012	<0.0005	
10/2/2012	<0.0005	
4/2/2013	<0.0005	
10/8/2013	<0.0005	
4/1/2014	0.0002 (J)	
10/1/2014	<0.0005	
3/31/2015	<0.0005	
10/14/2015	<0.0005	
4/4/2016	<0.0005	
6/1/2016	<0.0005	
2/22/2017	<0.0005	
4/11/2017	<0.0005	
6/16/2017	<0.0005	
7/12/2017	<0.0005	
7/28/2017	<0.0005	
8/10/2017	<0.0005	
10/6/2017	<0.0005	
3/23/2018	<0.0005	
9/20/2018	<0.0005	
3/22/2019		<0.0005
9/18/2019		<0.0005
3/17/2020		<0.0005

Within Limit

Prediction Limit Intrawell Non-parametric

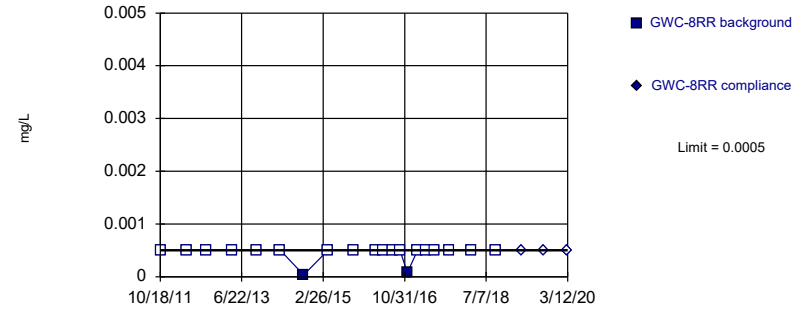


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

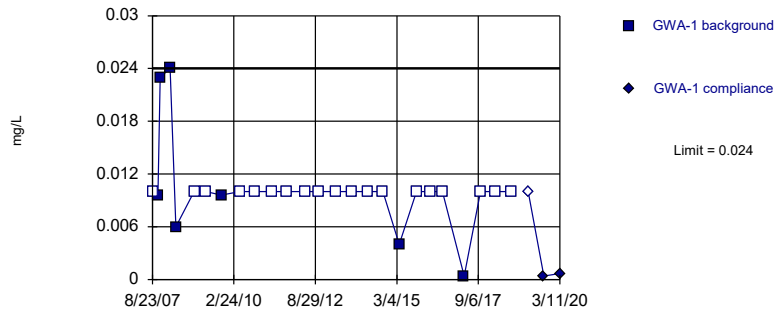


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

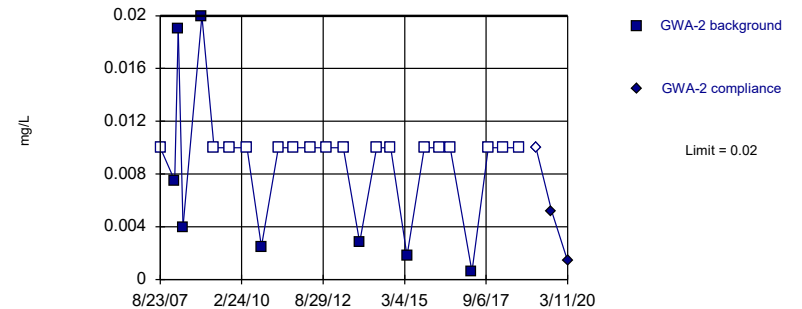


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 25 background values. 68% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.0005	
11/2/2007	<0.0005	
11/17/2007	<0.0005	
1/15/2008	<0.0005	
3/6/2008	<0.0005	
5/7/2008	<0.0005	
12/2/2008	<0.0005	
4/28/2009	<0.0005	
10/19/2009	<0.0005	
4/27/2010	<0.0005	
10/4/2010	<0.0005	
4/18/2011	<0.0005	
10/12/2011	<0.0005	
4/23/2012	<0.0005	
10/10/2012	<0.0005	
4/15/2013	<0.0005	
10/22/2013	<0.0005	
4/21/2014	<0.0005	
9/30/2014	<0.0005	
4/3/2015	<0.0005	
10/7/2015	<0.0005	
4/5/2016	<0.0005	
5/31/2016	<0.0005	
8/4/2016	<0.0005	
9/29/2016	<0.0005	
11/23/2016	5E-05 (J)	
2/10/2017	<0.0005	
4/12/2017	<0.0005	
6/15/2017	<0.0005	
10/6/2017	<0.0005	
3/23/2018	<0.0005	
9/19/2018	<0.0005	
3/25/2019		<0.0005
9/17/2019		<0.0005
3/13/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.0005	
4/30/2012	<0.0005	
10/3/2012	<0.0005	
4/8/2013	<0.0005	
10/9/2013	<0.0005	
4/10/2014	<0.0005	
10/2/2014	3.83E-05 (J)	
4/3/2015	<0.0005	
10/8/2015	<0.0005	
3/30/2016	<0.0005	
5/24/2016	<0.0005	
8/2/2016	<0.0005	
9/27/2016	<0.0005	
11/22/2016	8E-05 (J)	
2/6/2017	<0.0005	
4/6/2017	<0.0005	
6/14/2017	<0.0005	
10/4/2017	<0.0005	
3/21/2018	<0.0005	
9/18/2018	<0.0005	
3/27/2019		<0.0005
9/16/2019		<0.0005 (D)
3/12/2020		<0.0005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.01	
10/23/2007	0.0096	
11/18/2007	0.023	
1/30/2008	0.11 (o)	
3/10/2008	0.024	
5/13/2008	0.006	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/7/2009	0.0096	
5/3/2010	<0.01	
10/12/2010	<0.01	
4/27/2011	<0.01	
10/17/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/12/2013	<0.01	
10/16/2013	<0.01	
4/11/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.004	
10/13/2015	<0.01	
3/22/2016	<0.01	
7/29/2016	<0.01	
3/30/2017	0.0004 (J)	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01 (D)	
3/20/2019		<0.01
9/12/2019		0.00038 (J)
3/11/2020		0.00068 (J)

Prediction Limit

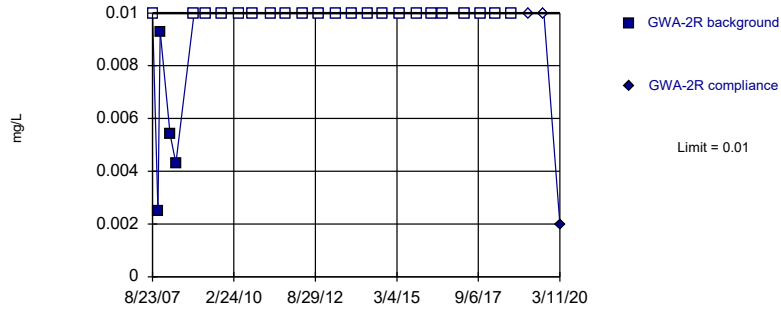
Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.01	
10/24/2007	0.026 (o)	
11/18/2007	0.043 (o)	
1/31/2008	0.0075	
3/11/2008	0.019	
5/6/2008	0.004	
12/4/2008	0.02	
4/21/2009	<0.01	
10/7/2009	<0.01	
4/26/2010	<0.01	
10/4/2010	0.0025	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	<0.01	
10/15/2013	0.0028	
4/22/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.0018 (J)	
10/13/2015	<0.01	
3/23/2016	<0.01	
7/29/2016	<0.01	
3/30/2017	0.0006 (J)	
10/2/2017	<0.01	
3/19/2018	<0.01	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		0.00518 (D)
3/11/2020		0.0014 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

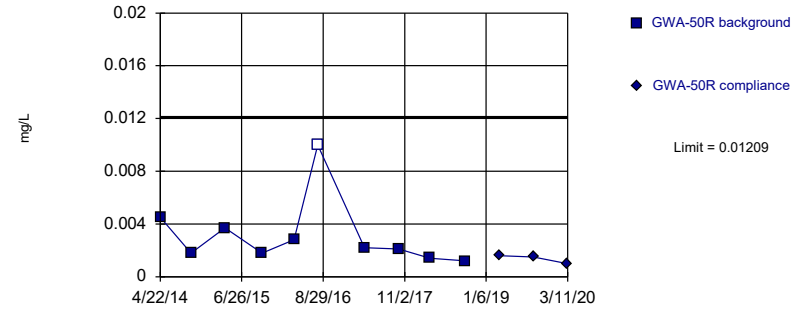


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 84.62% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

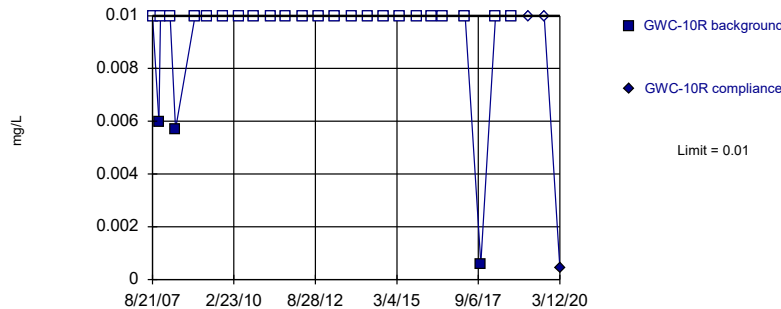


Background Data Summary (based on square root transformation): Mean=0.05305, Std. Dev.=0.01932, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8214, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

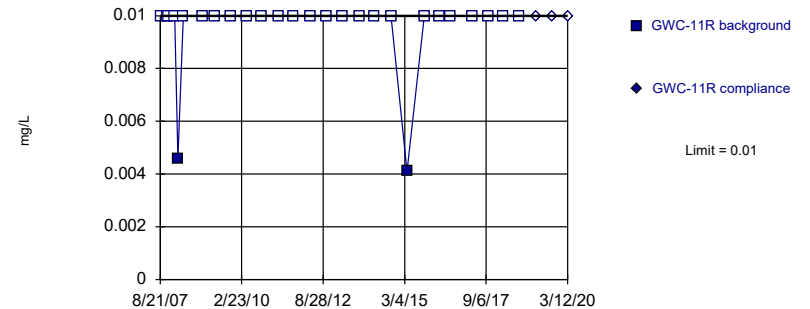


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.01	
10/24/2007	0.0025	
11/18/2007	0.0093	
1/31/2008	0.054 (o)	
3/10/2008	0.0054	
5/13/2008	0.0043	
12/4/2008	<0.01	
4/21/2009	<0.01	
10/8/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/10/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	<0.01	
10/13/2015	<0.01	
3/23/2016	<0.01	
7/29/2016	<0.01	
4/3/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		<0.01
9/13/2019		<0.01
3/11/2020		0.002 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	0.0096	
4/23/2009	0.015	
10/6/2009	0.008	
5/3/2010	0.0053	
10/11/2010	0.0061	
4/27/2011	0.0087	
10/19/2011	0.0039	
5/1/2012	0.0054	
10/2/2012	0.0044	
4/10/2013	0.0053	
10/16/2013	0.0047	
4/22/2014	0.0045	
10/1/2014	0.0018 (J)	
3/30/2015	0.0037	
10/11/2015	0.0018 (J)	
3/28/2016	0.0028 (J)	
8/1/2016	<0.01	
4/3/2017	0.0022 (J)	
10/2/2017	0.0021 (J)	
3/16/2018	0.0014 (J)	
9/18/2018	0.0012 (J)	
3/19/2019		0.0016 (J)
9/12/2019		0.0015 (J)
3/11/2020		0.001 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	<0.01	
11/1/2007	0.006	
11/20/2007	<0.01	
1/30/2008	0.029 (O)	
3/6/2008	<0.01	
5/8/2008	0.0057	
12/14/2008	<0.01	
4/29/2009	<0.01	
10/21/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/8/2012	<0.01	
4/3/2013	<0.01	
10/15/2013	<0.01	
4/9/2014	<0.01	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/12/2015	<0.01	
3/31/2016	<0.01	
8/3/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	0.0006 (J)	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/12/2020		0.00043 (J)

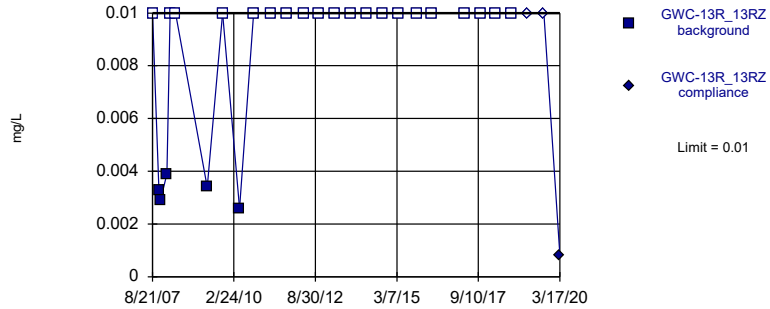
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/6/2008	0.0046	
5/7/2008	<0.01	
12/14/2008	<0.01	
4/29/2009	<0.01	
10/22/2009	<0.01	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	0.0041	
10/11/2015	<0.01	
4/4/2016	<0.01	
8/4/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Within Limit

Prediction Limit
 Intrawell Non-parametric

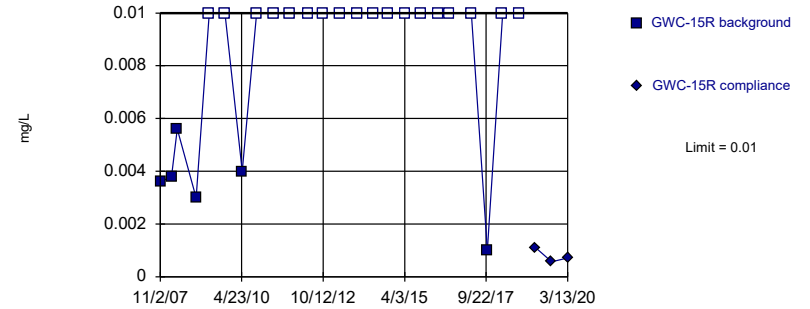


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

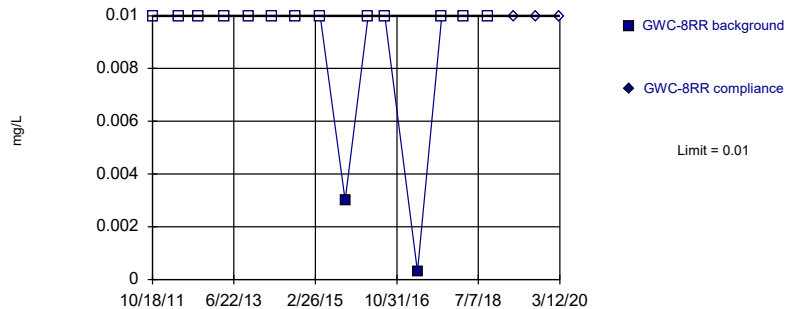


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

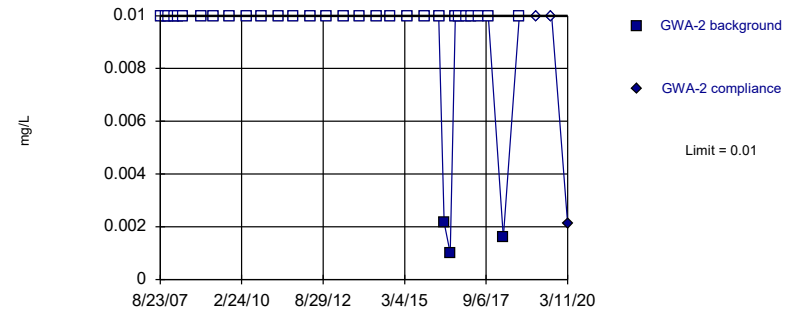


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/14/2020 10:01 AM View: Bedrock
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	0.0033	
11/19/2007	0.0029	
1/31/2008	0.0039	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/12/2008	0.022 (O)	
4/29/2009	0.0034	
10/21/2009	<0.01	
4/28/2010	0.0026	
10/6/2010	<0.01	
4/20/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		0.00082 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.0089 (O)	
11/2/2007	0.0036	
11/17/2007	0.014 (O)	
1/15/2008	0.0096 (O)	
3/6/2008	0.0038	
5/7/2008	0.0056	
12/2/2008	0.003	
4/28/2009	<0.01	
10/19/2009	<0.01	
4/27/2010	0.004	
10/4/2010	<0.01	
4/18/2011	<0.01	
10/12/2011	<0.01	
4/23/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
8/4/2016	<0.01	
4/12/2017	<0.01	
10/6/2017	0.001 (J)	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/25/2019		0.0011 (J)
9/17/2019		0.00057 (J)
3/13/2020		0.00072 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.01	
4/30/2012	<0.01	
10/3/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	<0.01	
4/10/2014	<0.01	
10/2/2014	<0.01	
4/3/2015	<0.01	
10/8/2015	0.003	
3/30/2016	<0.01	
8/2/2016	<0.01	
4/6/2017	0.0003 (J)	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/27/2019		<0.01
9/16/2019		<0.01 (D)
3/12/2020		<0.01

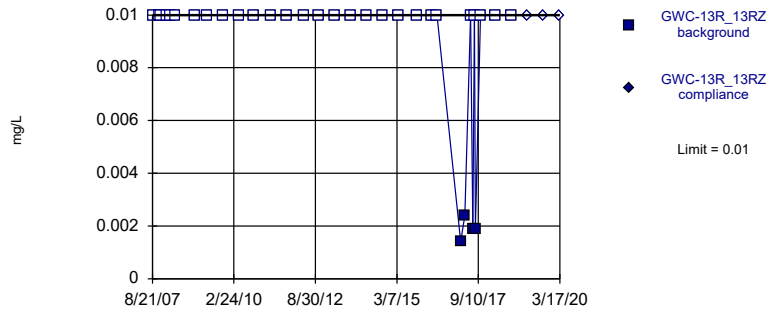
Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.01	
10/24/2007	<0.01	
11/18/2007	<0.01	
1/31/2008	<0.01	
3/11/2008	<0.01	
5/6/2008	<0.01	
12/4/2008	<0.01	
4/21/2009	<0.01	
10/7/2009	<0.01	
4/26/2010	<0.01	
10/4/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	<0.01	
10/15/2013	<0.01	
4/22/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	<0.01	
10/13/2015	<0.01	
3/23/2016	<0.01	
5/20/2016	0.00216 (J)	
7/29/2016	0.001 (J)	
9/23/2016	<0.01	
11/9/2016	<0.01	
1/31/2017	<0.01	
3/30/2017	<0.01	
6/12/2017	<0.01	
10/2/2017	<0.01	
3/19/2018	0.0016 (J)	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		<0.01 (D)
3/11/2020		0.0021 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

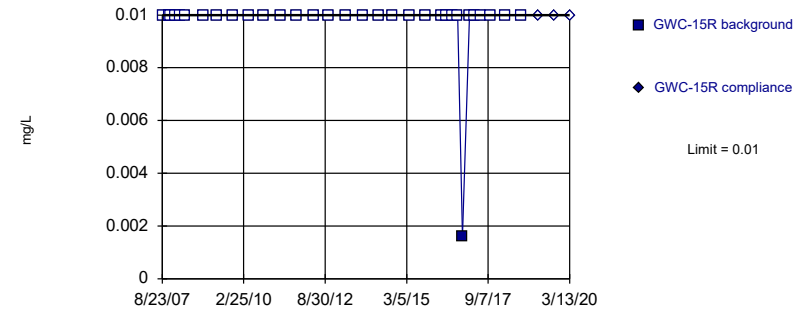


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

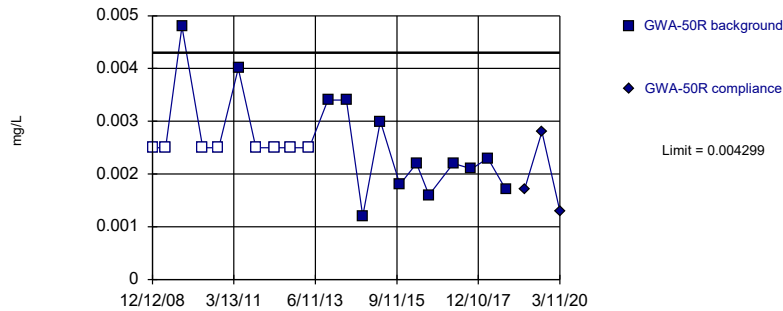


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

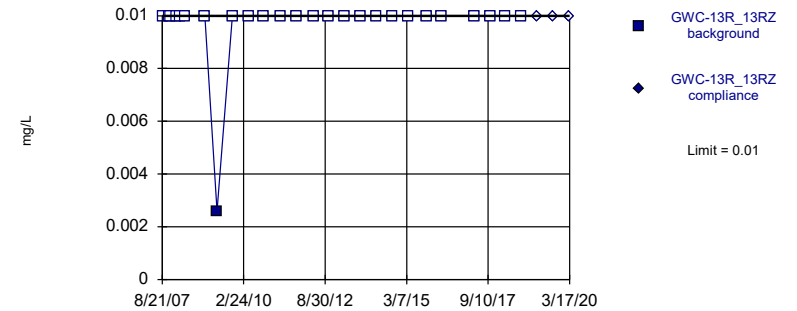


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002202, Std. Dev.=0.0008907, n=21, 38.1% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8968, critical = 0.873. Kappa = 2.354 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Silver Analysis Run 4/14/2020 10:01 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Silver Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/31/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/12/2008	<0.01	
4/29/2009	<0.01	
10/21/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/20/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
6/1/2016	<0.01	
2/22/2017	0.0014 (J)	
4/11/2017	0.0024 (J)	
6/16/2017	<0.01	
7/12/2017	0.0019 (J)	
7/28/2017	<0.01	
8/10/2017	0.0019 (J)	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.01	
11/2/2007	<0.01	
11/17/2007	<0.01	
1/15/2008	<0.01	
3/6/2008	<0.01	
5/7/2008	<0.01	
12/2/2008	<0.01	
4/28/2009	<0.01	
10/19/2009	<0.01	
4/27/2010	<0.01	
10/4/2010	<0.01	
4/18/2011	<0.01	
10/12/2011	<0.01	
4/23/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
5/31/2016	<0.01	
8/4/2016	<0.01	
9/29/2016	<0.01	
11/23/2016	0.0016 (J)	
2/10/2017	<0.01	
4/12/2017	<0.01	
6/15/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/25/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.0025	
4/23/2009	<0.0025	
10/6/2009	0.0048	
5/3/2010	<0.0025	
10/11/2010	<0.0025	
4/27/2011	0.004	
10/19/2011	<0.0025	
5/1/2012	<0.0025	
10/2/2012	<0.0025	
4/10/2013	<0.0025	
10/16/2013	0.0034	
4/22/2014	0.0034	
10/1/2014	0.0012 (J)	
3/30/2015	0.003	
10/11/2015	0.0018 (J)	
3/28/2016	0.0022 (J)	
8/1/2016	0.0016 (J)	
4/3/2017	0.0022 (J)	
10/2/2017	0.0021 (J)	
3/16/2018	0.0023 (J)	
9/18/2018	0.0017 (J)	
3/19/2019		0.0017 (J)
9/12/2019		0.0028 (J)
3/11/2020		0.0013 (J)

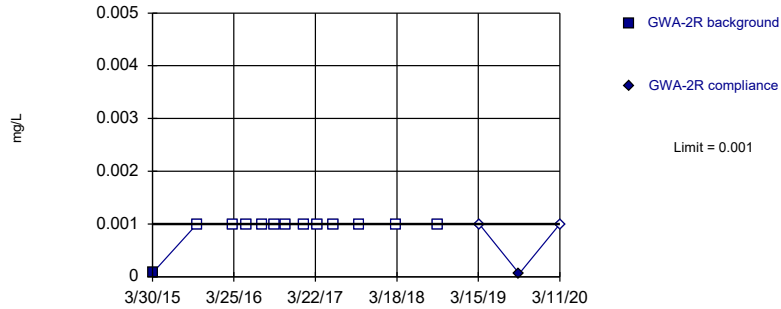
Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/31/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/12/2008	<0.01	
4/29/2009	0.0026	
10/21/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/20/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		<0.01

Within Limit

Prediction Limit Intrawell Non-parametric

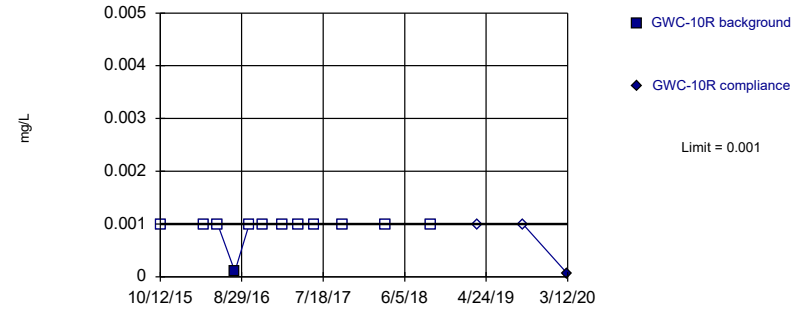


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Thallium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

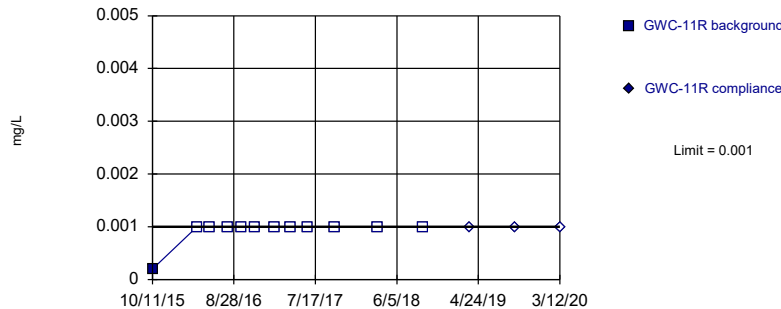


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

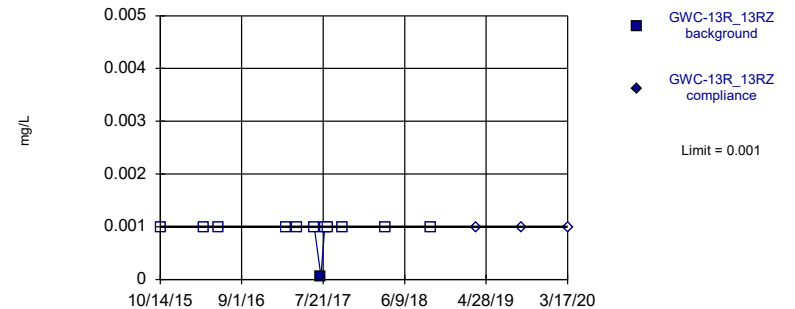


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
3/30/2015	7E-05	
10/13/2015	<0.001	
3/23/2016	<0.001	
5/19/2016	<0.001	
7/29/2016	<0.001	
9/22/2016	<0.001	
11/10/2016	<0.001	
1/31/2017	<0.001	
4/3/2017	<0.001	
6/9/2017	<0.001	
10/2/2017	<0.001	
3/16/2018	<0.001	
9/14/2018	<0.001	
3/19/2019		<0.001
9/13/2019		6.2E-05 (J)
3/11/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
10/12/2015	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
8/3/2016	0.0001 (J)	
9/28/2016	<0.001	
11/22/2016	<0.001	
2/7/2017	<0.001	
4/10/2017	<0.001	
6/14/2017	<0.001	
10/4/2017	<0.001	
3/21/2018	<0.001	
9/18/2018	<0.001	
3/22/2019		<0.001
9/17/2019		<0.001
3/12/2020		5.4E-05 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
10/11/2015	0.0002	
4/4/2016	<0.001	
5/26/2016	<0.001	
8/4/2016	<0.001	
9/28/2016	<0.001	
11/22/2016	<0.001	
2/8/2017	<0.001	
4/10/2017	<0.001	
6/15/2017	<0.001	
10/4/2017	<0.001	
3/22/2018	<0.001	
9/18/2018	<0.001	
3/23/2019		<0.001
9/17/2019		<0.001
3/12/2020		<0.001

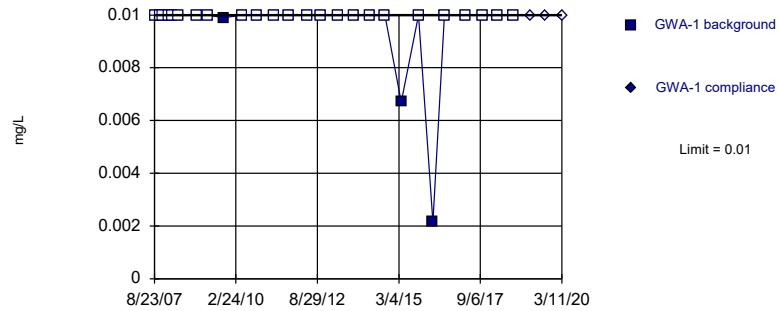
Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
10/14/2015	<0.001	
4/4/2016	<0.001	
6/1/2016	<0.001	
2/22/2017	<0.001	
4/11/2017	<0.001	
6/16/2017	<0.001	
7/12/2017	6E-05 (J)	
7/28/2017	<0.001	
8/10/2017	<0.001	
10/6/2017	<0.001	
3/23/2018	<0.001	
9/20/2018	<0.001	
3/22/2019		<0.001
9/18/2019		<0.001
3/17/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

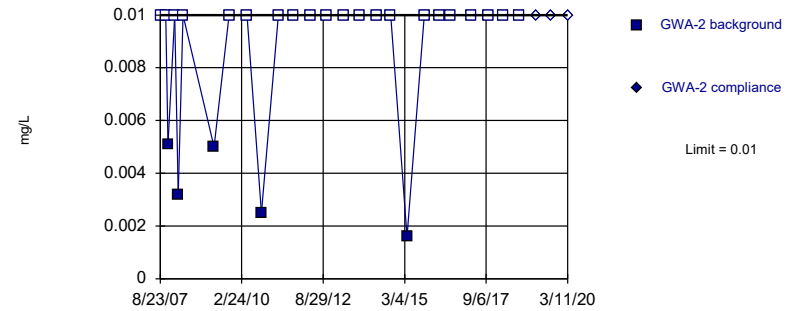


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

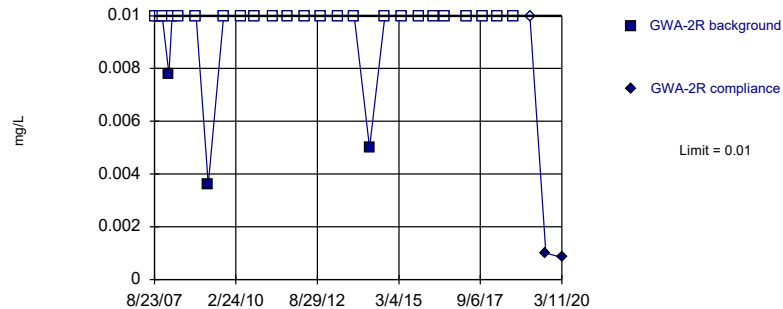


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

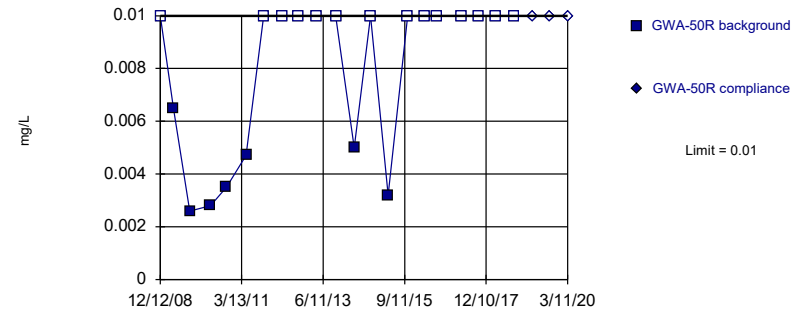


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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. 66.67% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.01	
10/23/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/10/2008	<0.01	
5/13/2008	<0.01	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/7/2009	0.0099	
5/3/2010	<0.01	
10/12/2010	<0.01	
4/27/2011	<0.01	
10/17/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/12/2013	<0.01	
10/16/2013	<0.01	
4/11/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.0067	
10/13/2015	<0.01	
3/22/2016	0.00214 (J)	
7/29/2016	<0.01	
3/30/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01 (D)	
3/20/2019		<0.01
9/12/2019		<0.01
3/11/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.01	
10/24/2007	<0.01	
11/18/2007	0.0051	
1/31/2008	<0.01	
3/11/2008	0.0032	
5/6/2008	<0.01	
12/4/2008	0.016 (o)	
4/21/2009	0.005	
10/7/2009	<0.01	
4/26/2010	<0.01	
10/4/2010	0.0025	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	<0.01	
10/15/2013	<0.01	
4/22/2014	<0.01	
9/30/2014	<0.01	
3/30/2015	0.0016 (J)	
10/13/2015	<0.01	
3/23/2016	<0.01	
7/29/2016	<0.01	
3/30/2017	<0.01	
10/2/2017	<0.01	
3/19/2018	<0.01	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		<0.01 (D)
3/11/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.01	
10/24/2007	<0.01	
11/18/2007	<0.01	
1/31/2008	0.0078	
3/10/2008	<0.01	
5/13/2008	<0.01	
12/4/2008	<0.01	
4/21/2009	0.0036	
10/8/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/10/2014	0.005 (J)	
9/30/2014	<0.01	
3/30/2015	<0.01	
10/13/2015	<0.01	
3/23/2016	<0.01	
7/29/2016	<0.01	
4/3/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		<0.01
9/13/2019		0.001 (J)
3/11/2020		0.00084 (J)

Prediction Limit

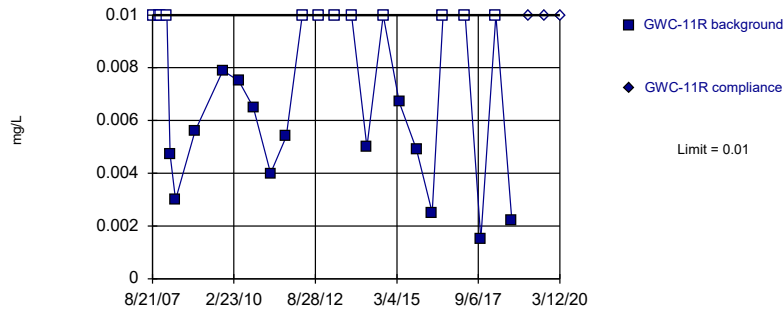
Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.01	
4/23/2009	0.0065	
10/6/2009	0.0026	
5/3/2010	0.0028	
10/11/2010	0.0035	
4/27/2011	0.0047	
10/19/2011	<0.01	
5/1/2012	<0.01	
10/2/2012	<0.01	
4/10/2013	<0.01	
10/16/2013	<0.01	
4/22/2014	0.005 (J)	
10/1/2014	<0.01	
3/30/2015	0.0032 (J)	
10/11/2015	<0.01	
3/28/2016	<0.01	
8/1/2016	<0.01	
4/3/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/18/2018	<0.01	
3/19/2019		<0.01
9/12/2019		<0.01
3/11/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

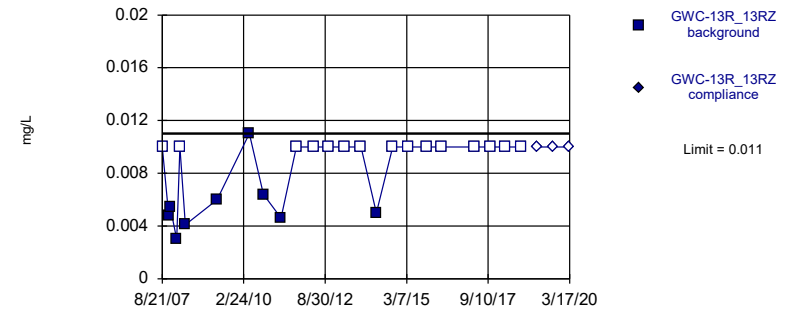


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 46.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

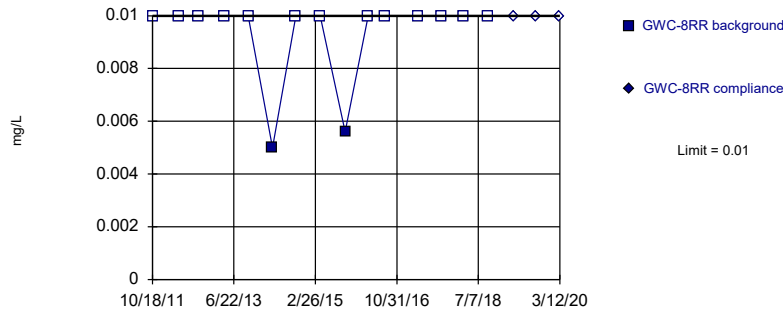


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

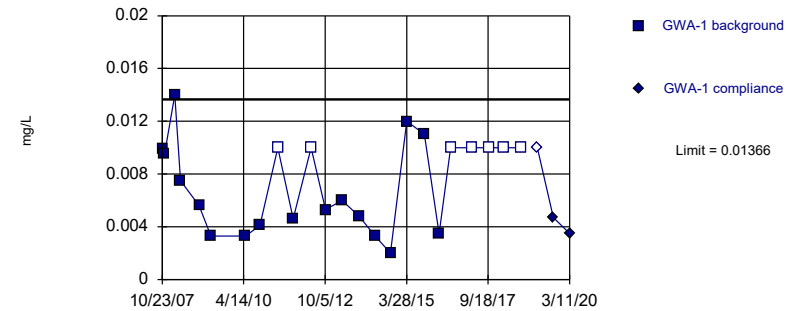


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.005745, Std. Dev.=0.003444, n=24, 29.17% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.884. Kappa = 2.299 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/6/2008	0.0047	
5/7/2008	0.003	
12/14/2008	0.0056	
4/29/2009	0.018 (o)	
10/22/2009	0.0079	
4/21/2010	0.0075	
9/29/2010	0.0065	
4/13/2011	0.004	
10/4/2011	0.0054	
4/4/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	0.005 (J)	
10/2/2014	<0.01	
4/1/2015	0.0067	
10/11/2015	0.0049 (J)	
4/4/2016	0.00251 (J)	
8/4/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	0.0015 (J)	
3/22/2018	<0.01	
9/18/2018	0.0022 (J)	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
11/1/2007	0.0048	
11/19/2007	0.0054	
1/31/2008	0.003	
3/5/2008	<0.01	
5/7/2008	0.0041	
12/12/2008	0.023 (o)	
4/29/2009	0.006	
10/21/2009	0.022 (o)	
4/28/2010	0.011	
10/6/2010	0.0064	
4/20/2011	0.0046	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	0.005 (J)	
10/1/2014	<0.01	
3/31/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		<0.01
9/18/2019		<0.01
3/17/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.01	
4/30/2012	<0.01	
10/3/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	<0.01	
4/10/2014	0.005 (J)	
10/2/2014	<0.01	
4/3/2015	<0.01	
10/8/2015	0.0056	
3/30/2016	<0.01	
8/2/2016	<0.01	
4/6/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/27/2019		<0.01
9/16/2019		<0.01 (D)
3/12/2020		<0.01

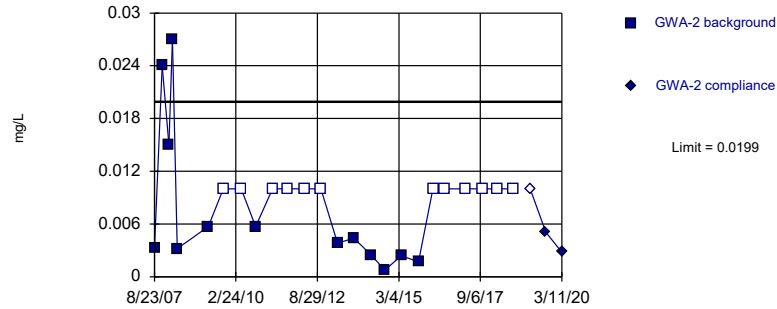
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	0.032 (o)	
10/23/2007	0.0099	
11/18/2007	0.0095 (J)	
1/30/2008	0.022 (o)	
3/10/2008	0.014	
5/13/2008	0.0075	
12/5/2008	0.0056 (J)	
4/15/2009	0.0033	
10/7/2009	0.061 (o)	
5/3/2010	0.0033	
10/12/2010	0.0041	
4/27/2011	<0.01	
10/17/2011	0.0046	
5/2/2012	<0.01	
10/8/2012	0.0053	
4/12/2013	0.006	
10/16/2013	0.0048	
4/11/2014	0.0033	
9/30/2014	0.002 (J)	
3/30/2015	0.012	
10/13/2015	0.011	
3/22/2016	0.00346 (J)	
7/29/2016	<0.01	
3/30/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01 (D)	
3/20/2019		<0.01
9/12/2019		0.0047 (J)
3/11/2020		0.0035 (J)

Within Limit

Prediction Limit
Intrawell Parametric

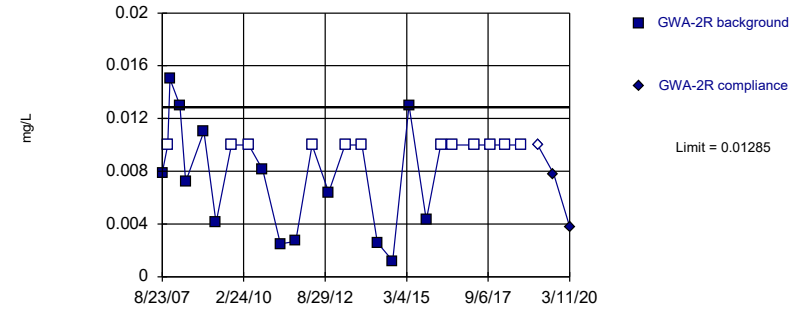


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06488, Std. Dev.=0.03341, n=25, 48% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9039, critical = 0.888. Kappa = 2.281 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

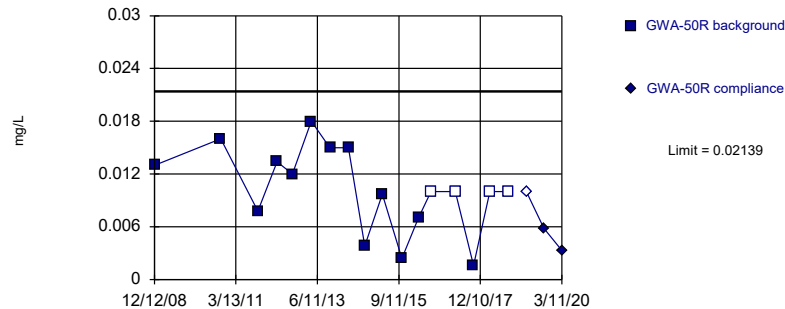


Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=0.00004454, Std. Dev.=0.00005316, n=26, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8915, critical = 0.891. Kappa = 2.269 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

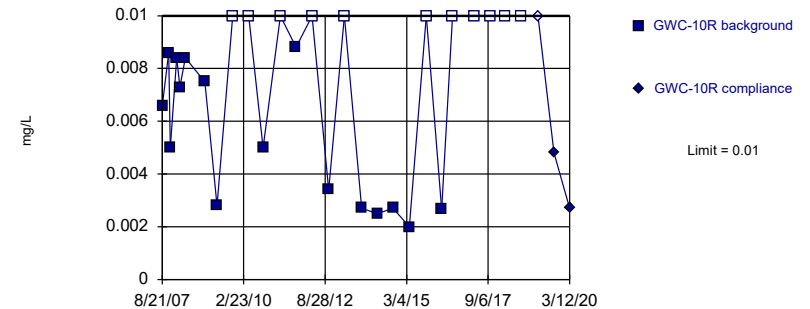


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.008728, Std. Dev.=0.005133, n=17, 23.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.851. Kappa = 2.466 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	0.0033 (o)	
11/18/2007	0.024	
1/30/2008	0.022 (o)	
1/31/2008	0.015	
3/11/2008	0.027	
5/6/2008	0.0032	
4/21/2009	0.0057	
10/7/2009	0.01 (o)	
4/26/2010	<0.01	
10/4/2010	0.0057	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/9/2012	<0.01	
4/15/2013	0.0038	
10/15/2013	0.0044	
4/22/2014	0.0025 (J)	
9/30/2014	0.00076 (J)	
3/30/2015	0.0024 (J)	
10/13/2015	0.0017 (J)	
3/23/2016	<0.01	
7/29/2016	<0.01	
3/30/2017	<0.01	
10/2/2017	<0.01	
3/19/2018	<0.01	
9/14/2018	<0.01	
3/20/2019		<0.01
9/12/2019		0.00505 (JD)
3/11/2020		0.0028 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	0.0079 (o)	
10/24/2007	<0.01	
11/18/2007	0.015	
1/30/2008	0.022 (o)	
3/10/2008	0.013 (J)	
5/13/2008	0.0072	
12/4/2008	0.011 (J)	
4/21/2009	0.0041	
10/7/2009	0.061 (o)	
10/8/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	0.0081	
4/12/2011	0.0025	
10/4/2011	0.0027	
4/3/2012	<0.01	
10/9/2012	0.0064	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/10/2014	0.0026	
9/30/2014	0.0012 (J)	
3/30/2015	0.013	
10/13/2015	0.0043	
3/23/2016	<0.01	
7/29/2016	<0.01	
4/3/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		<0.01
9/13/2019		0.0078 (J)
3/11/2020		0.0038 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
8/23/2007	0.032 (o)	
1/30/2008	0.022 (o)	
12/12/2008	0.013 (J)	
10/7/2009	0.061 (o)	
10/11/2010	0.016	
10/19/2011	0.0078	
5/1/2012	0.0134	
10/2/2012	0.012	
4/10/2013	0.018	
10/16/2013	0.015	
4/22/2014	0.015	
10/1/2014	0.0038	
3/30/2015	0.0097	
10/11/2015	0.0024 (J)	
3/28/2016	0.00703 (J)	
8/1/2016	<0.01	
4/3/2017	<0.01	
10/2/2017	0.0016 (J)	
3/16/2018	<0.01	
9/18/2018	<0.01	
3/19/2019		<0.01
9/12/2019		0.0058 (J)
3/11/2020		0.0033 (J)

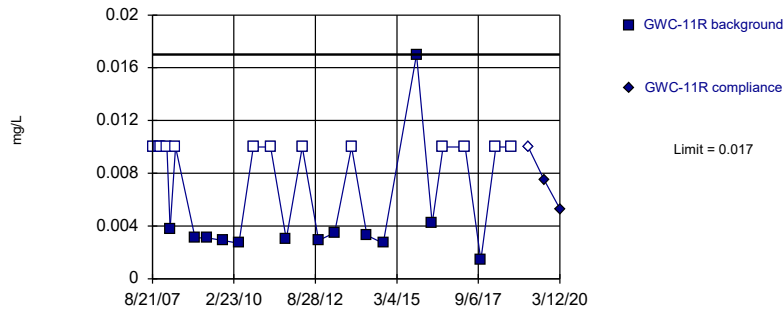
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	0.0066	
11/1/2007	0.0086	
11/20/2007	0.005	
1/30/2008	0.0084	
3/6/2008	0.0073	
5/8/2008	0.0084	
12/14/2008	0.0075 (J)	
4/29/2009	0.0028	
10/21/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	0.005	
4/12/2011	<0.01	
10/4/2011	0.0088	
4/3/2012	<0.01	
10/8/2012	0.0034	
4/3/2013	<0.01	
10/15/2013	0.0027	
4/9/2014	0.0025 (J)	
10/2/2014	0.0027 (V)	
4/2/2015	0.002 (J)	
10/12/2015	<0.01	
3/31/2016	0.00266 (J)	
8/3/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.0048 (J)
3/12/2020		0.0027 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

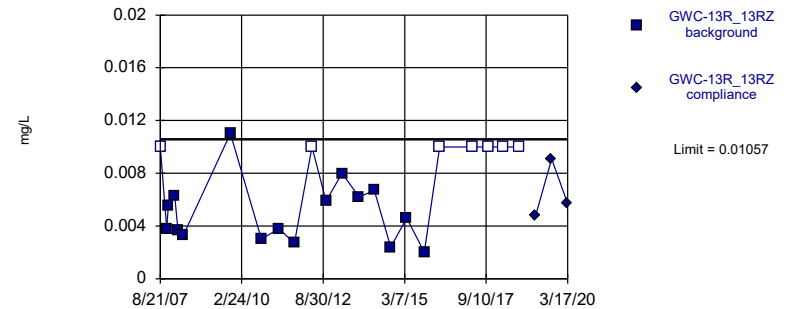


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 50% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

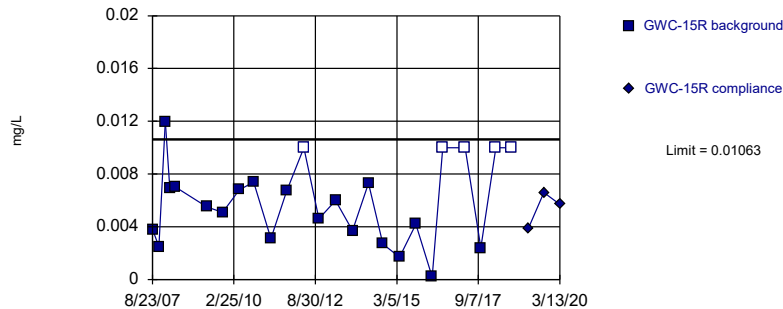


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06716, Std. Dev.=0.0154, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8961, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

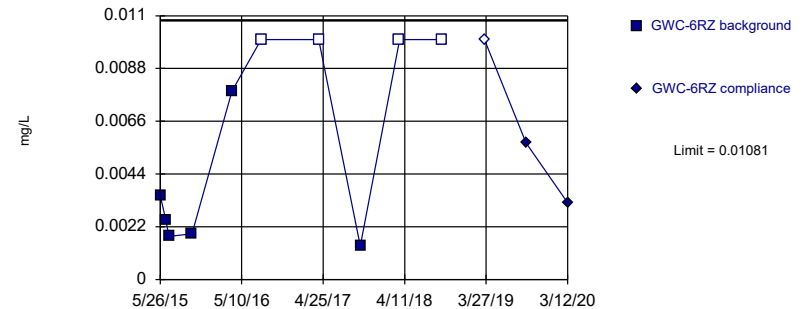


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004906, Std. Dev.=0.002508, n=25, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9599, critical = 0.888. Kappa = 2.281 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05354, Std. Dev.=0.01713, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7942, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/6/2008	0.0038	
5/7/2008	<0.01	
12/14/2008	0.0031 (J)	
4/29/2009	0.0031	
10/22/2009	0.0029	
4/21/2010	0.0027	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/4/2011	0.003	
4/4/2012	<0.01	
10/3/2012	0.0029	
4/3/2013	0.0035	
10/9/2013	<0.01	
4/2/2014	0.0033	
10/2/2014	0.0027	
4/1/2015	0.013 (O)	
10/11/2015	0.017	
4/4/2016	0.00419 (J)	
8/4/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	0.0014 (J)	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		0.0075 (J)
3/12/2020		0.0053 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
8/21/2007	<0.01	
8/23/2007	0.032 (o)	
11/1/2007	0.0038	
11/19/2007	0.0055	
1/30/2008	0.022 (o)	
1/31/2008	0.0063	
3/5/2008	0.0037	
5/7/2008	0.0033	
10/7/2009	0.061 (o)	
10/21/2009	0.011	
10/6/2010	0.003	
4/20/2011	0.0038	
10/12/2011	0.0027	
4/25/2012	<0.01	
10/2/2012	0.0059	
4/2/2013	0.008	
10/8/2013	0.0062	
4/1/2014	0.0067	
10/1/2014	0.0024 (J)	
3/31/2015	0.0046	
10/14/2015	0.002 (J)	
4/4/2016	<0.01	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/20/2018	<0.01	
3/22/2019		0.0048 (J)
9/18/2019		0.0091 (X)
3/17/2020		0.0057 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.0038 (o)	
11/2/2007	0.0025	
1/15/2008	0.012	
1/30/2008	0.022 (o)	
3/6/2008	0.0069	
5/7/2008	0.007	
4/28/2009	0.0055	
10/7/2009	0.061 (o)	
10/19/2009	0.0051	
4/27/2010	0.0068	
10/4/2010	0.0074	
4/18/2011	0.0031	
10/12/2011	0.0067	
4/23/2012	<0.01	
10/10/2012	0.0046	
4/15/2013	0.006	
10/22/2013	0.0037	
4/21/2014	0.0073	
9/30/2014	0.0027	
4/3/2015	0.0017 (J)	
10/7/2015	0.0042	
4/5/2016	0.000194 (J)	
8/4/2016	<0.01	
4/12/2017	<0.01	
10/6/2017	0.0024 (J)	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/25/2019		0.0039 (J)
9/17/2019		0.0066 (J)
3/13/2020		0.0057 (J)

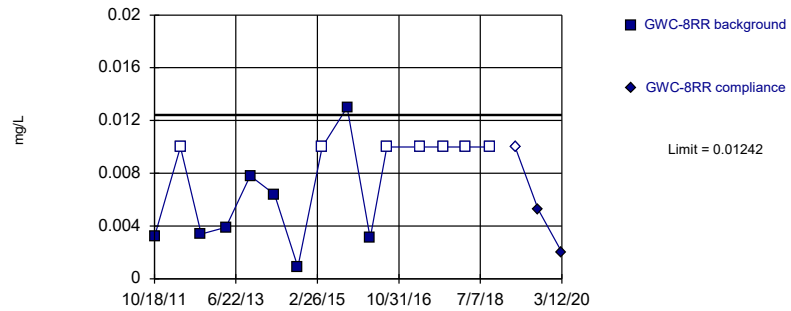
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
8/23/2007	0.032 (o)	
1/30/2008	0.022 (o)	
10/7/2009	0.061 (o)	
5/26/2015	0.0035	
6/18/2015	0.0025 (D)	
7/2/2015	0.0018 (J)	
10/9/2015	0.0019 (J)	
3/29/2016	0.00786 (J)	
8/1/2016	<0.01	
4/6/2017	<0.01	
10/3/2017	0.0014 (J)	
3/20/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		0.0057 (J)
3/12/2020		0.0032 (J)

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004691, Std. Dev.=0.003024, n=15, 46.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8633, critical = 0.835. Kappa = 2.555 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/14/2020 10:02 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:06 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
8/23/2007	0.032 (o)	
1/30/2008	0.022 (o)	
10/7/2009	0.061 (o)	
10/18/2011	0.0032	
4/30/2012	<0.01	
10/3/2012	0.0034	
4/8/2013	0.0039	
10/9/2013	0.0078	
4/10/2014	0.0064	
10/2/2014	0.0009 (JV)	
4/3/2015	<0.01	
10/8/2015	0.013	
3/30/2016	0.00308 (J)	
8/2/2016	<0.01	
4/6/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/27/2019		<0.01
9/16/2019		0.00525 (JD)
3/12/2020		0.002 (J)

FIGURE E.

Overburden Wells Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N Bg	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-3	0.0068	n/a	3/11/2020	0.0045	No	32	n/a	n/a	n/a	68.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-50	0.003	n/a	3/11/2020	0.0005	No	26	n/a	n/a	n/a	92.31	n/a	0.0002803	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.003	n/a	3/12/2020	0.0013	No	32	n/a	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-14_14Z	0.005	n/a	3/13/2020	0.00053	No	32	n/a	n/a	n/a	87.5	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-15_15Z	0.0053	n/a	3/13/2020	0.003ND	No	31	n/a	n/a	n/a	83.87	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.003	n/a	3/16/2020	0.00031	No	31	n/a	n/a	n/a	96.77	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.0035	n/a	3/12/2020	0.00052	No	32	n/a	n/a	n/a	93.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-7Z	0.003	n/a	3/12/2020	0.00066	No	11	n/a	n/a	n/a	90.91	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-9	0.003	n/a	3/12/2020	0.003ND	No	32	n/a	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-10	0.0079	n/a	3/12/2020	0.005ND	No	31	n/a	n/a	n/a	90.32	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/12/2020	0.005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.012	n/a	3/12/2020	0.0053	No	31	n/a	n/a	n/a	29.03	n/a	0.0001701	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-13	0.0096	n/a	3/13/2020	0.00096	No	32	n/a	n/a	n/a	78.13	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14_14Z	0.0079	n/a	3/13/2020	0.005ND	No	31	n/a	n/a	n/a	87.1	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-15_15Z	0.0077	n/a	3/13/2020	0.00052	No	32	n/a	n/a	n/a	75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.005	n/a	3/16/2020	0.005ND	No	32	n/a	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.005	n/a	3/12/2020	0.00055	No	31	n/a	n/a	n/a	93.55	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7Z	0.003663	n/a	3/12/2020	0.00044	No	11	0.002522	0.0005101	18.18	Kaplan-Meier	0.0002993	Param Intra 1 of 3	
Arsenic (mg/L)	GWC-8Z	0.005	n/a	3/16/2020	0.005ND	No	15	n/a	n/a	n/a	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0086	n/a	3/12/2020	0.005ND	No	31	n/a	n/a	n/a	93.55	n/a	0.0001701	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-3	0.007921	n/a	3/11/2020	0.0041	No	23	0.005815	0.001177	4.348	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWA-50	0.01571	n/a	3/11/2020	0.0077	No	25	0.009848	0.003336	4	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-10	0.02966	n/a	3/12/2020	0.026	No	29	-4.024	0.2943	0	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-11	0.036	n/a	3/12/2020	0.0086	No	31	n/a	n/a	n/a	3.226	n/a	0.0001701	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-12	0.07	n/a	3/12/2020	0.023	No	28	n/a	n/a	n/a	0	n/a	0.0002317	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-13	0.04922	n/a	3/13/2020	0.023	No	30	0.02845	0.01216	0	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-14_14Z	0.03815	n/a	3/13/2020	0.017	No	21	0.2446	0.05056	9.524	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-15_15Z	0.01987	n/a	3/13/2020	0.014	No	31	0.0106	0.00545	3.226	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-5	0.02443	n/a	3/16/2020	0.024	No	31	0.01764	0.003992	0	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-6	0.02458	n/a	3/12/2020	0.0075	No	29	0.1134	0.02526	3.448	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-7Z	0.03969	n/a	3/12/2020	0.022	No	11	0.0267	0.005812	0	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-8Z	0.05253	n/a	3/16/2020	0.027	No	15	0.1761	0.02662	0	None	0.0002993	Param Intra 1 of 3	
Barium (mg/L)	GWC-9	0.04876	n/a	3/12/2020	0.044	No	28	0.03862	0.005872	0	None	0.0002993	Param Intra 1 of 3	
Beryllium (mg/L)	GWC-10	0.003	n/a	3/12/2020	0.00017	No	14	n/a	n/a	n/a	71.43	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-13	0.003	n/a	3/13/2020	0.00008	No	14	n/a	n/a	n/a	57.14	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14_14Z	0.003	n/a	3/13/2020	0.00016	No	14	n/a	n/a	n/a	78.57	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-5	0.003	n/a	3/16/2020	0.00048	No	14	n/a	n/a	n/a	14.29	n/a	0.0016	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-6	0.003	n/a	3/12/2020	0.003ND	No	14	n/a	n/a	n/a	78.57	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8Z	0.003	n/a	3/16/2020	0.003ND	No	15	n/a	n/a	n/a	93.33	n/a	0.001313	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.003	n/a	3/12/2020	0.00022	No	14	n/a	n/a	n/a	35.71	n/a	0.0016	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-50	0.001	n/a	3/11/2020	0.001ND	No	26	n/a	n/a	n/a	96.15	n/a	0.0002803	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-12	0.001	n/a	3/12/2020	0.00089	No	32	n/a	n/a	n/a	68.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14_14Z	0.001	n/a	3/13/2020	0.001ND	No	32	n/a	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-5	0.001	n/a	3/16/2020	0.001ND	No	31	n/a	n/a	n/a	80.65	n/a	0.0001701	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-6	0.001	n/a	3/12/2020	0.001ND	No	32	n/a	n/a	n/a	93.75	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-7Z	0.001	n/a	3/12/2020	0.001ND	No	11	n/a	n/a	n/a	90.91	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8Z	0.001	n/a	3/16/2020	0.001ND	No	15	n/a	n/a	n/a	86.67	n/a	0.001313	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3	0.027	n/a	3/11/2020	0.00095	No	29	n/a	n/a	n/a	86.21	n/a	0.0002074	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.0011	No	26	n/a	n/a	n/a	88.46	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.042	n/a	3/12/2020	0.00047	No	32	n/a	n/a	n/a	46.88	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-11	0.025	n/a	3/12/2020	0.00084	No	32	n/a	n/a	n/a	28.13	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.039	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	n/a	71.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.02017	n/a	3/13/2020	0.0054	No	32	-4.769	0.511	0	None	0.0002993	Param Intra 1 of 3	
Chromium (mg/L)	GWC-14_14Z	0.01856	n/a	3/13/2020	0.00093	No	31	0.07182	0.03787	25.81	Kaplan-Meier	0.0002993	Param Intra 1 of 3	
Chromium (mg/L)	GWC-15_15Z	0.027	n/a	3/13/2020	0.0012	No	26	n/a	n/a	n/a	57.69	n/a	0.0002803	NP Intra (NDs) 1 of 3

Overburden Wells Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Chromium (mg/L)	GWC-5	0.032	n/a	3/16/2020	0.00078	No	32	n/a	n/a	53.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-6	0.027	n/a	3/12/2020	0.0034	No	31	n/a	n/a	32.26	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.0015	No	14	n/a	n/a	42.86	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-9	0.018	n/a	3/12/2020	0.00045	No	30	n/a	n/a	80	n/a	n/a	0.0001831	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3	0.01	n/a	3/11/2020	0.00041	No	32	n/a	n/a	37.5	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-10	0.013	n/a	3/12/2020	0.0017	No	32	n/a	n/a	65.63	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-11	0.016	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.0031	No	31	n/a	n/a	9.677	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-13	0.011	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-14_14Z	0.011	n/a	3/13/2020	0.01ND	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-15_15Z	0.01	n/a	3/13/2020	0.01ND	No	31	n/a	n/a	93.55	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.00031	No	32	n/a	n/a	53.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-6	0.01	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-7Z	0.001751	n/a	3/12/2020	0.00031	No	10	0.02867	0.005656	0	None	n/a	0.0002993	Param Intra 1 of 3
Cobalt (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.00044	No	31	n/a	n/a	70.97	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-3	0.0509	n/a	3/11/2020	0.027	No	27	0.03618	0.008473	0	None	n/a	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWA-50	0.01497	n/a	3/11/2020	0.0026	No	21	0.1825	0.03515	19.05	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-10	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	74.07	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-11	0.025	n/a	3/12/2020	0.00023	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-12	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	70.37	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-13	0.025	n/a	3/13/2020	0.00033	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14_14Z	0.025	n/a	3/13/2020	0.025ND	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15_15Z	0.025	n/a	3/13/2020	0.0002	No	26	n/a	n/a	69.23	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-5	0.05566	n/a	3/16/2020	0.012	No	26	0.02693	0.01643	0	None	n/a	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-6	0.025	n/a	3/12/2020	0.025ND	No	27	n/a	n/a	59.26	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-7Z	0.025	n/a	3/12/2020	0.00021	No	5	n/a	n/a	60	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8Z	0.025	n/a	3/16/2020	0.00024	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.025	n/a	3/12/2020	0.00031	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-50	0.005	n/a	3/11/2020	0.005ND	No	26	n/a	n/a	92.31	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-11	0.005	n/a	3/12/2020	0.000052	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-13	0.005	n/a	3/13/2020	0.00013	No	32	n/a	n/a	84.38	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-14_14Z	0.005	n/a	3/13/2020	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-6	0.005	n/a	3/12/2020	0.0001	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-7Z	0.005	n/a	3/12/2020	0.000082	No	11	n/a	n/a	45.45	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-8Z	0.005	n/a	3/16/2020	0.00016	No	15	n/a	n/a	46.67	n/a	n/a	0.001313	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-9	0.005	n/a	3/12/2020	0.00016	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-50	0.0005	n/a	3/11/2020	0.0005ND	No	26	n/a	n/a	96.15	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-11	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-12	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-13	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15_15Z	0.0005	n/a	3/13/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-5	0.0005	n/a	3/16/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-6	0.0005	n/a	3/12/2020	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-3	0.05803	n/a	3/11/2020	0.012	No	25	-3.684	0.4762	0	None	n/a	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.00084	No	21	n/a	n/a	47.62	n/a	n/a	0.000511	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-10	0.032	n/a	3/12/2020	0.0015	No	27	n/a	n/a	51.85	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-11	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-12	0.029	n/a	3/12/2020	0.0022	No	27	n/a	n/a	48.15	n/a	n/a	0.000256	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-13	0.015	n/a	3/13/2020	0.01ND	No	27	n/a	n/a	74.07	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-14_14Z	0.011	n/a	3/13/2020	0.00078	No	27	n/a	n/a	62.96	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15_15Z	0.019	n/a	3/13/2020	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-5	0.04631	n/a	3/16/2020	0.015	No	27	0.02419	0.01273	0	None	n/a	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.022	n/a	3/12/2020	0.01ND	No	26	n/a	n/a	46.15	n/a	n/a	0.0002803	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-7Z	0.001363	n/a	3/12/2020	0.00078	No	5	0.001133	0.00004714	40	Kaplan-Meier	n/a	0.0002993	Param Intra 1 of 3

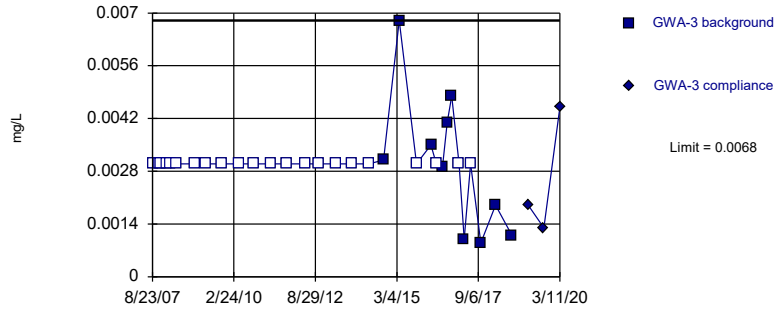
Overburden Wells Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Nickel (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.0006	No	10	n/a	n/a	60	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-9	0.014	n/a	3/12/2020	0.0011	No	25	n/a	n/a	40	n/a	0.0003046	NP Intra (normality) 1 of 3
Selenium (mg/L)	GWC-13	0.0074	n/a	3/13/2020	0.0019	No	32	n/a	n/a	62.5	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.01ND	No	31	n/a	n/a	90.32	n/a	0.0001701	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.01ND	No	32	n/a	n/a	96.88	n/a	0.0001572	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-50	0.01	n/a	3/11/2020	0.00039	No	21	n/a	n/a	80.95	n/a	0.000511	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	96.3	n/a	0.000256	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-15_15Z	0.001	n/a	3/13/2020	0.001ND	No	11	n/a	n/a	81.82	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	3/12/2020	0.001ND	No	12	n/a	n/a	91.67	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8Z	0.001	n/a	3/16/2020	0.001ND	No	12	n/a	n/a	83.33	n/a	0.002173	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-3	0.01	n/a	3/11/2020	0.01ND	No	27	n/a	n/a	92.59	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-10	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	85.19	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-11	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	88.89	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-12	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	74.07	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-13	0.01	n/a	3/13/2020	0.002	No	26	n/a	n/a	53.85	n/a	0.0002803	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14_14Z	0.012	n/a	3/13/2020	0.01ND	No	27	n/a	n/a	66.67	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-15_15Z	0.0165	n/a	3/13/2020	0.00095	No	26	0.006028	0.005988	34.62	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Vanadium (mg/L)	GWC-5	0.01	n/a	3/16/2020	0.01ND	No	27	n/a	n/a	88.89	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-6	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	66.67	n/a	0.000256	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-8Z	0.01	n/a	3/16/2020	0.01ND	No	10	n/a	n/a	90	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-9	0.01	n/a	3/12/2020	0.01ND	No	27	n/a	n/a	81.48	n/a	0.000256	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-3	0.1185	n/a	3/11/2020	0.031	No	27	-2.766	0.3644	3.704	None	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWA-50	0.007874	n/a	3/11/2020	0.0025	No	20	0.004272	0.001962	25	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-10	0.03989	n/a	3/12/2020	0.0024	No	27	-5.18	1.127	29.63	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-11	0.015	n/a	3/12/2020	0.0038	No	27	n/a	n/a	62.96	n/a	0.000256	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-12	0.05749	n/a	3/12/2020	0.015	No	27	-4.541	0.9693	14.81	None	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-13	0.01707	n/a	3/13/2020	0.0043	No	23	0.008189	0.004965	26.09	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-14_14Z	0.015	n/a	3/13/2020	0.0028	No	22	n/a	n/a	27.27	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-15_15Z	0.01298	n/a	3/13/2020	0.0026	No	23	0.1578	0.04314	43.48	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-5	0.1443	n/a	3/16/2020	0.047	No	27	0.07538	0.03964	3.704	None	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-6	0.01677	n/a	3/12/2020	0.0042	No	22	0.08853	0.0227	36.36	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-8Z	0.00618	n/a	3/16/2020	0.0073	No	10	0.1413	0.01813	50	Kaplan-Meier	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-9	0.01646	n/a	3/12/2020	0.0045	No	23	0.08051	0.0267	17.39	Kaplan-Meier	0.0002993	Param Intra 1 of 3

Within Limit

Prediction Limit
Intrawell Non-parametric

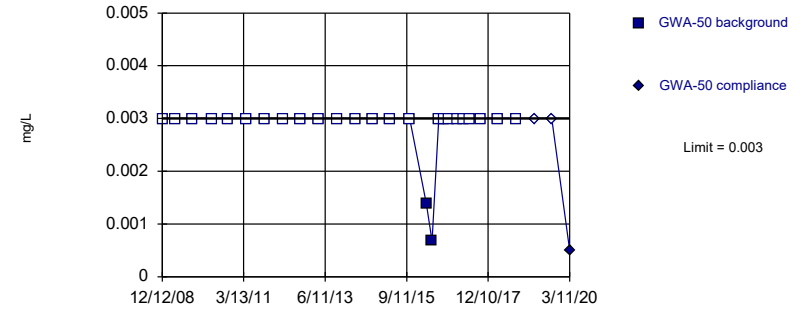


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

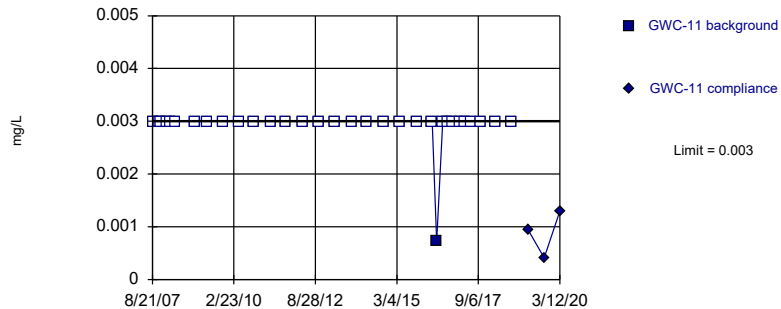


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

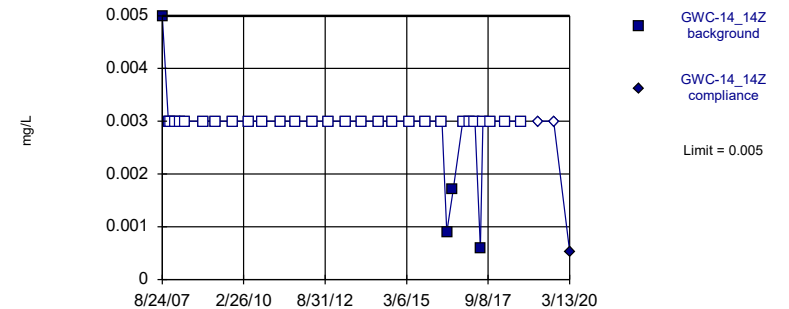


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	<0.003	
11/2/2007	<0.003	
11/18/2007	<0.003	
1/31/2008	<0.003	
3/11/2008	<0.003	
5/14/2008	<0.003	
12/5/2008	<0.003	
4/15/2009	<0.003	
10/8/2009	<0.003	
4/28/2010	<0.003	
10/6/2010	<0.003	
4/21/2011	<0.003	
10/13/2011	<0.003	
5/1/2012	<0.003	
10/9/2012	<0.003	
4/11/2013	<0.003	
10/16/2013	<0.003	
4/23/2014	<0.003	
10/4/2014	0.0031 (J)	
3/31/2015	0.0068	
10/12/2015	<0.003	
3/23/2016	0.0035	
5/23/2016	<0.003	
7/29/2016	0.0029 (J)	
9/22/2016	0.0041	
11/10/2016	0.0048 (J)	
1/31/2017	<0.003	
3/30/2017	0.001 (J)	
6/12/2017	<0.003	
10/4/2017	0.0009 (J)	
3/19/2018	0.0019 (J)	
9/17/2018	0.0011 (J)	
3/20/2019		0.0019 (J)
9/13/2019		0.0013 (J)
3/11/2020		0.0045

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.003	
4/23/2009	<0.003	
10/6/2009	<0.003	
4/27/2010	<0.003	
9/30/2010	<0.003	
4/14/2011	<0.003	
10/5/2011	<0.003	
4/11/2012	<0.003	
10/2/2012	<0.003	
4/9/2013	<0.003	
10/15/2013	<0.003	
4/10/2014	<0.003	
10/1/2014	<0.003	
3/30/2015	<0.003	
10/11/2015	<0.003	
3/28/2016	0.00139 (J)	
5/23/2016	0.000677 (J)	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/10/2016	<0.003	
1/30/2017	<0.003	
4/7/2017	<0.003	
6/12/2017	<0.003	
10/2/2017	<0.003	
3/16/2018	<0.003	
9/17/2018	<0.003	
3/19/2019		<0.003
9/13/2019		<0.003
3/11/2020		0.0005 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.003	
11/1/2007	<0.003	
11/18/2007	<0.003	
1/30/2008	<0.003	
3/5/2008	<0.003	
5/7/2008	<0.003	
12/14/2008	<0.003	
4/29/2009	<0.003	
10/22/2009	<0.003	
4/21/2010	<0.003	
9/28/2010	<0.003	
4/12/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
10/3/2012	<0.003	
4/3/2013	<0.003	
10/9/2013	<0.003	
4/2/2014	<0.003	
10/2/2014	<0.003	
4/1/2015	<0.003	
10/11/2015	<0.003	
4/4/2016	<0.003	
5/26/2016	0.000722 (J)	
8/3/2016	<0.003	
9/28/2016	<0.003	
11/22/2016	<0.003	
2/8/2017	<0.003	
4/10/2017	<0.003	
6/15/2017	<0.003	
10/4/2017	<0.003	
3/21/2018	<0.003	
9/18/2018	<0.003	
3/23/2019		0.00094 (J)
9/17/2019		0.00041 (J)
3/12/2020		0.0013 (J)

Prediction Limit

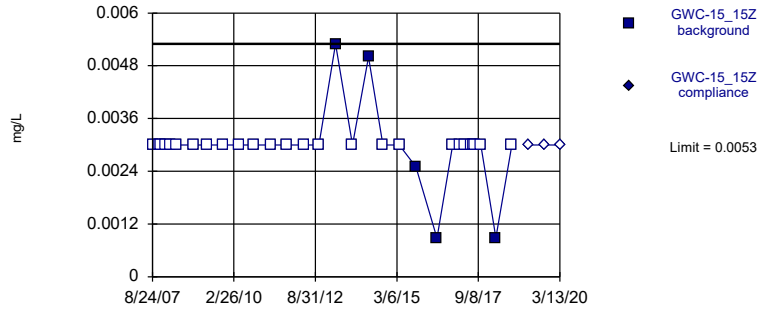
Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	0.005	
11/2/2007	<0.003	
11/17/2007	<0.003	
1/15/2008	<0.003	
3/5/2008	<0.003	
5/7/2008	<0.003	
12/2/2008	<0.003	
4/16/2009	<0.003	
10/20/2009	<0.003	
4/20/2010	<0.003	
9/29/2010	<0.003	
4/12/2011	<0.003	
10/4/2011	<0.003	
4/4/2012	<0.003	
10/10/2012	<0.003	
4/15/2013	<0.003	
10/22/2013	<0.003	
4/21/2014	<0.003	
9/30/2014	<0.003	
4/3/2015	<0.003	
10/7/2015	<0.003	
4/5/2016	<0.003	
6/1/2016	0.000895 (J)	
8/9/2016	0.0017 (JD)	
11/28/2016	<0.003	
2/9/2017	<0.003	
4/11/2017	<0.003	
6/14/2017	0.0006 (J)	
7/12/2017	<0.003	
10/5/2017	<0.003	
3/22/2018	<0.003	
9/19/2018	<0.003	
3/22/2019		<0.003
9/17/2019		<0.003
3/13/2020		0.00053 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

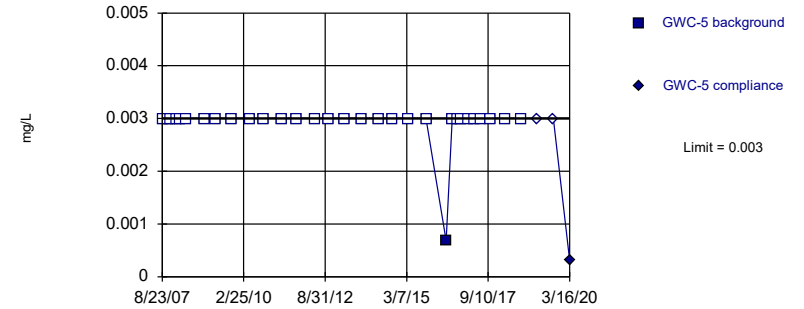


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

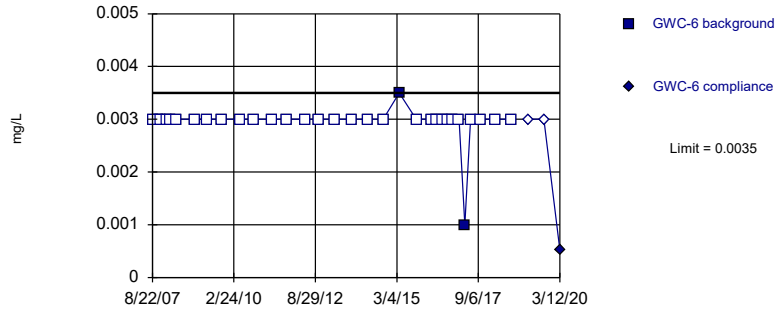


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

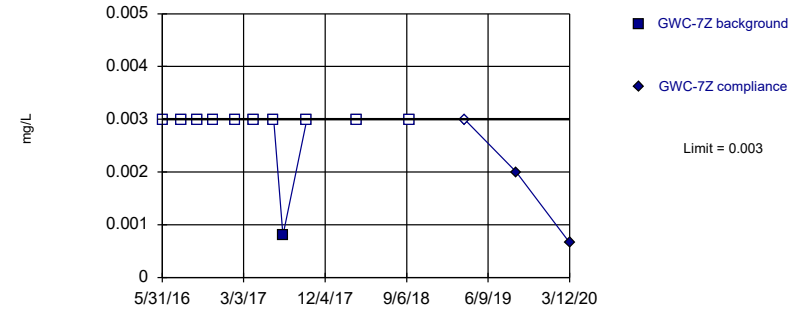


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	<0.003	
11/2/2007	<0.003	
11/18/2007	<0.003	
1/15/2008	<0.003	
3/10/2008	<0.003	
5/13/2008	<0.003	
12/2/2008	<0.003	
4/28/2009	<0.003	
10/20/2009	<0.003	
4/27/2010	<0.003	
10/5/2010	<0.003	
4/19/2011	<0.003	
10/12/2011	<0.003	
4/25/2012	<0.003	
10/10/2012	<0.003	
4/16/2013	0.0053	
10/22/2013	<0.003	
4/21/2014	0.005 (J)	
9/30/2014	<0.003	
4/3/2015	<0.003	
10/6/2015	0.0025 (J)	
4/5/2016	0.053 (o)	
5/31/2016	0.00088 (J)	
11/23/2016	<0.003	
2/10/2017	<0.003	
4/11/2017	<0.003	
6/15/2017	<0.003	
7/12/2017	<0.003	
7/26/2017	<0.003	
10/6/2017	<0.003	
3/23/2018	0.00089 (J)	
9/19/2018	<0.003	
3/22/2019		<0.003
9/17/2019		<0.003
3/13/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.003	
10/25/2007	<0.003	
11/19/2007	<0.003	
1/23/2008	<0.003	
3/11/2008	<0.003	
5/12/2008	<0.003	
12/11/2008	<0.003	
4/15/2009	<0.003	
10/9/2009	<0.003	
5/4/2010	<0.003	
10/12/2010	<0.003	
4/28/2011	<0.003	
10/19/2011	<0.003	
5/2/2012	<0.003	
10/9/2012	<0.003	
4/11/2013	<0.003	
10/16/2013	<0.003	
4/23/2014	<0.003	
10/3/2014	<0.003	
3/31/2015	<0.003	
10/12/2015	<0.003	
3/28/2016	0.0284 (o)	
5/25/2016	0.000686 (J)	
8/1/2016	<0.003	
9/27/2016	<0.003	
11/11/2016	<0.003	
1/31/2017	<0.003	
4/3/2017	<0.003	
6/12/2017	<0.003	
10/3/2017	<0.003	
3/19/2018	<0.003	
9/17/2018	<0.003	
3/20/2019		<0.003
9/16/2019		<0.003
3/16/2020		0.00031 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.003	
10/25/2007	<0.003	
11/20/2007	<0.003	
1/23/2008	<0.003	
3/11/2008	<0.003	
5/14/2008	<0.003	
12/11/2008	<0.003	
4/23/2009	<0.003	
10/9/2009	<0.003	
5/4/2010	<0.003	
10/11/2010	<0.003	
4/26/2011	<0.003	
10/18/2011	<0.003	
5/2/2012	<0.003	
10/8/2012	<0.003	
4/10/2013	<0.003	
10/8/2013	<0.003	
4/14/2014	<0.003	
10/3/2014	<0.003	
4/1/2015	0.0035 (J)	
10/9/2015	<0.003	
3/29/2016	<0.003	
5/24/2016	<0.003	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/18/2016	<0.003	
2/1/2017	<0.003	
4/6/2017	0.001 (J)	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/19/2018	<0.003	
9/17/2018	<0.003	
3/21/2019		<0.003
9/16/2019		<0.003
3/12/2020		0.00052 (J)

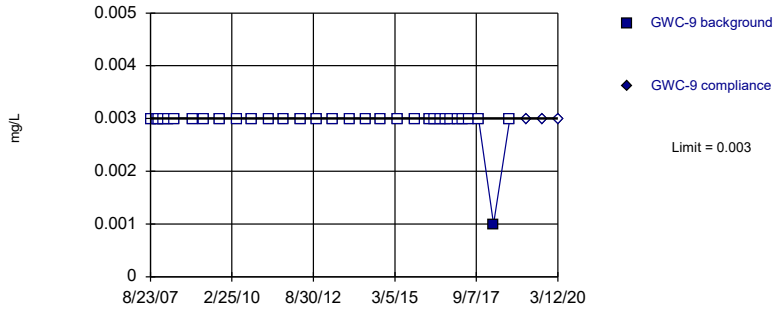
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.003	
8/2/2016	<0.003	
9/27/2016	<0.003	
11/21/2016	<0.003	
2/1/2017	<0.003	
4/6/2017	<0.003	
6/13/2017	<0.003	
7/14/2017	0.0008 (J)	
10/3/2017	<0.003	
3/20/2018	<0.003	
9/18/2018	<0.003	
3/21/2019		<0.003
9/13/2019		0.002 (J)
3/12/2020		0.00066 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

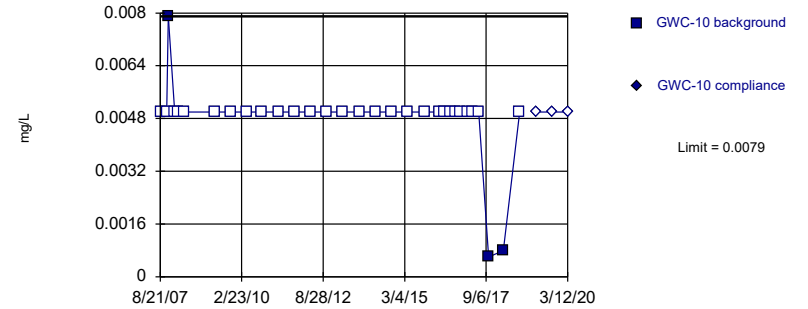


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

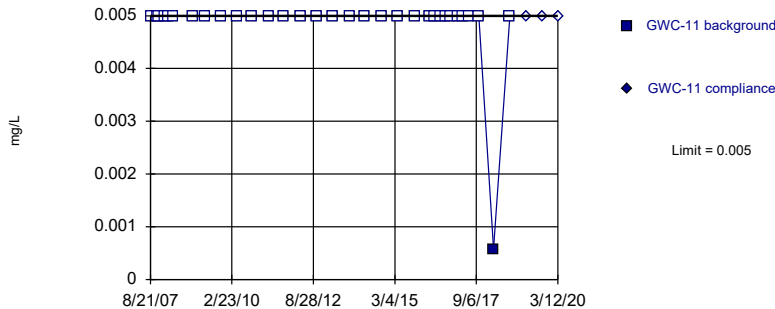


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

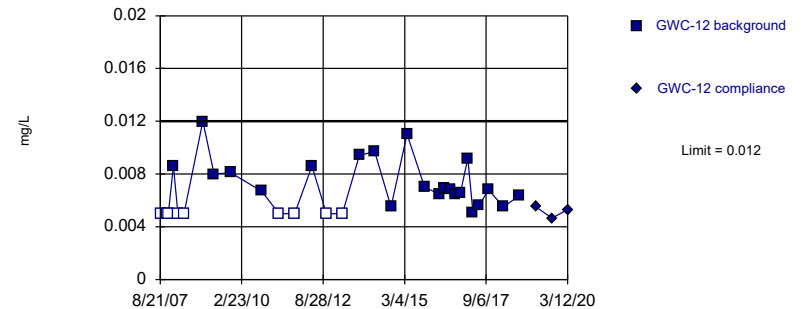


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 31 background values. 29.03% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.003	
11/1/2007	<0.003	
11/19/2007	<0.003	
1/15/2008	<0.003	
3/6/2008	<0.003	
5/13/2008	<0.003	
12/12/2008	<0.003	
4/16/2009	<0.003	
10/13/2009	<0.003	
4/21/2010	<0.003	
9/29/2010	<0.003	
4/13/2011	<0.003	
10/5/2011	<0.003	
4/4/2012	<0.003	
10/8/2012	<0.003	
4/8/2013	<0.003	
10/9/2013	<0.003	
4/9/2014	<0.003	
9/30/2014	<0.003	
4/2/2015	<0.003	
10/10/2015	<0.003 (D)	
3/30/2016	<0.003	
5/26/2016	<0.003	
8/5/2016	<0.003	
9/28/2016	<0.003	
11/21/2016	<0.003	
2/6/2017	<0.003	
4/6/2017	<0.003	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/20/2018	0.001 (J)	
9/18/2018	<0.003 (D)	
3/21/2019		<0.003
9/16/2019		<0.003
3/12/2020		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	<0.005	
11/1/2007	<0.005	
11/20/2007	0.0079	
1/30/2008	<0.005	
3/6/2008	<0.005	
5/12/2008	<0.005	
12/13/2008	0.015 (o)	
4/29/2009	<0.005	
10/20/2009	<0.005	
4/26/2010	<0.005	
9/29/2010	<0.005	
4/13/2011	<0.005	
10/5/2011	<0.005	
4/4/2012	<0.005	
10/3/2012	<0.005	
4/3/2013	<0.005	
10/15/2013	<0.005	
4/9/2014	<0.005	
10/2/2014	<0.005	
4/2/2015	<0.005	
10/10/2015	<0.005	
3/31/2016	<0.005	
5/26/2016	<0.005	
8/5/2016	<0.005	
9/28/2016	<0.005	
11/22/2016	<0.005	
2/7/2017	<0.005	
4/10/2017	<0.005	
6/14/2017	<0.005	
10/4/2017	0.0006 (J)	
3/20/2018	0.00079 (J)	
9/18/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/12/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.005	
11/1/2007	<0.005	
11/18/2007	<0.005	
1/30/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/14/2008	<0.005	
4/29/2009	<0.005	
10/22/2009	<0.005	
4/21/2010	<0.005	
9/28/2010	<0.005	
4/12/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
10/3/2012	<0.005	
4/3/2013	<0.005	
10/9/2013	<0.005	
4/2/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	<0.005	
10/11/2015	<0.005	
4/4/2016	<0.005	
5/26/2016	<0.005	
8/3/2016	<0.005	
9/28/2016	<0.005	
11/22/2016	<0.005	
2/8/2017	<0.005	
4/10/2017	<0.005	
6/15/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	0.00058 (J)	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005
3/12/2020		<0.005

Prediction Limit

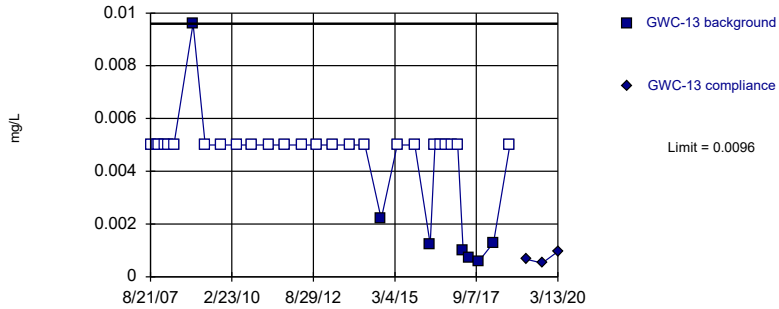
Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/16/2008	0.0086	
3/5/2008	<0.005	
5/13/2008	<0.005	
12/13/2008	0.012	
4/16/2009	0.008	
10/21/2009	0.0081	
10/5/2010	0.0067	
4/19/2011	<0.005	
10/12/2011	<0.005	
4/24/2012	0.0086	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/9/2013	0.0094	
4/1/2014	0.0097	
10/2/2014	0.0055	
4/1/2015	0.011	
10/14/2015	0.007	
4/4/2016	0.00645	
5/27/2016	0.00692	
8/3/2016	0.0068	
9/30/2016	0.0065	
11/22/2016	0.0066	
2/13/2017	0.0092	
4/11/2017	0.0051	
6/14/2017	0.0056	
10/4/2017	0.0068	
3/22/2018	0.0055	
9/18/2018	0.0064	
3/23/2019		0.0055
9/17/2019		0.00465 (JD)
3/12/2020		0.0053

Within Limit

Prediction Limit
Intrawell Non-parametric

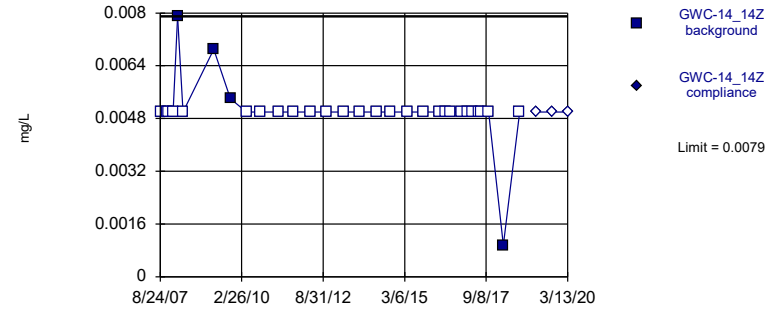


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

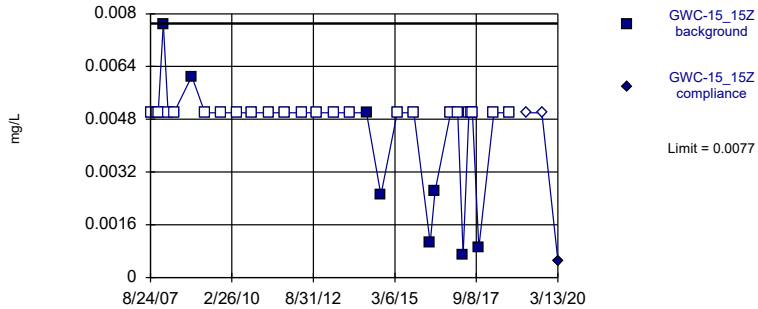


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

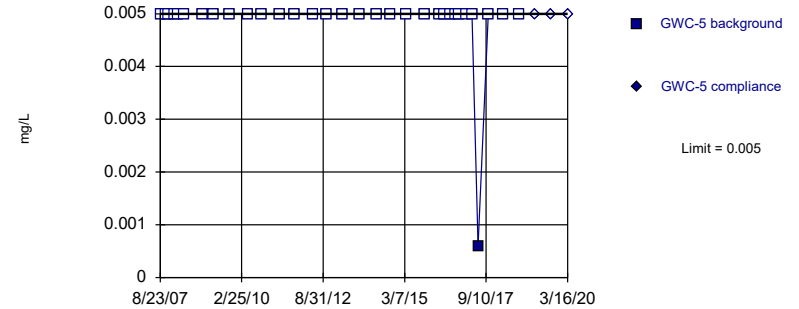


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/12/2008	<0.005	
12/13/2008	0.0096	
4/28/2009	<0.005	
10/21/2009	<0.005	
4/28/2010	<0.005	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/18/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/8/2013	<0.005	
4/1/2014	<0.005	
10/1/2014	0.0022 (J)	
4/1/2015	<0.005	
10/15/2015	<0.005	
4/4/2016	0.00124 (J)	
5/31/2016	<0.005	
8/4/2016	<0.005	
9/29/2016	<0.005	
11/28/2016	<0.005	
2/9/2017	<0.005	
4/12/2017	0.001 (J)	
6/16/2017	0.0007 (J)	
10/9/2017	0.0006 (J)	
3/21/2018	0.0013 (J)	
9/19/2018	<0.005	
3/23/2019		0.00067 (J)
9/18/2019		0.00052 (J)
3/13/2020		0.00096 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	<0.005	
11/2/2007	<0.005	
11/17/2007	<0.005	
1/15/2008	<0.005	
3/5/2008	0.0079	
5/7/2008	<0.005	
12/2/2008	0.014 (o)	
4/16/2009	0.0069	
10/20/2009	0.0054	
4/20/2010	<0.005	
9/29/2010	<0.005	
4/12/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
10/10/2012	<0.005	
4/15/2013	<0.005	
10/22/2013	<0.005	
4/21/2014	<0.005	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/7/2015	<0.005	
4/5/2016	<0.005	
6/1/2016	<0.005	
8/9/2016	<0.005	
11/28/2016	<0.005	
2/9/2017	<0.005	
4/11/2017	<0.005	
6/14/2017	<0.005	
7/12/2017	<0.005	
10/5/2017	<0.005	
3/22/2018	0.00096 (J)	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	<0.005	
11/2/2007	<0.005	
11/18/2007	<0.005	
1/15/2008	0.0077	
3/10/2008	<0.005	
5/13/2008	<0.005	
12/2/2008	0.0061	
4/28/2009	<0.005	
10/20/2009	<0.005	
4/27/2010	<0.005	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/12/2011	<0.005	
4/25/2012	<0.005	
10/10/2012	<0.005	
4/16/2013	<0.005	
10/22/2013	<0.005	
4/21/2014	0.005 (J)	
9/30/2014	0.0025 (J)	
4/3/2015	<0.005	
10/6/2015	<0.005	
4/5/2016	0.00105 (J)	
5/31/2016	0.00261 (J)	
11/23/2016	<0.005	
2/10/2017	<0.005	
4/11/2017	0.0007 (J)	
6/15/2017	<0.005	
7/12/2017	<0.005	
7/26/2017	<0.005	
10/6/2017	0.0009 (J)	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		0.00052 (J)

Prediction Limit

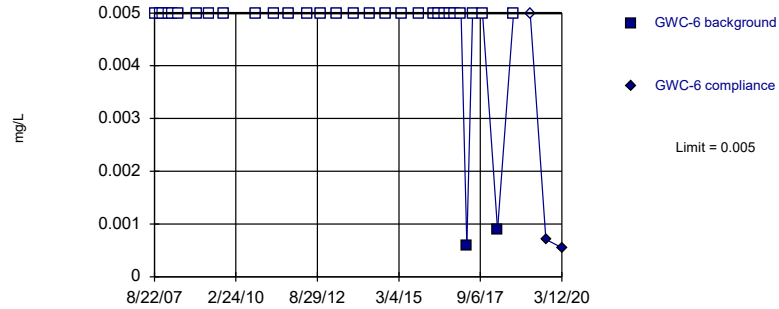
Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.005	
10/25/2007	<0.005	
11/19/2007	<0.005	
1/23/2008	<0.005	
3/11/2008	<0.005	
5/12/2008	<0.005	
12/11/2008	<0.005	
4/15/2009	<0.005	
10/9/2009	<0.005	
5/4/2010	<0.005	
10/12/2010	<0.005	
4/28/2011	<0.005	
10/19/2011	<0.005	
5/2/2012	<0.005	
10/9/2012	<0.005	
4/11/2013	<0.005	
10/16/2013	<0.005	
4/23/2014	<0.005	
10/3/2014	<0.005	
3/31/2015	<0.005	
10/12/2015	<0.005	
3/28/2016	<0.005	
5/25/2016	<0.005	
8/1/2016	<0.005	
9/27/2016	<0.005	
11/11/2016	<0.005	
1/31/2017	<0.005	
4/3/2017	<0.005	
6/12/2017	0.0006 (J)	
10/3/2017	<0.005	
3/19/2018	<0.005	
9/17/2018	<0.005	
3/20/2019		<0.005
9/16/2019		<0.005
3/16/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

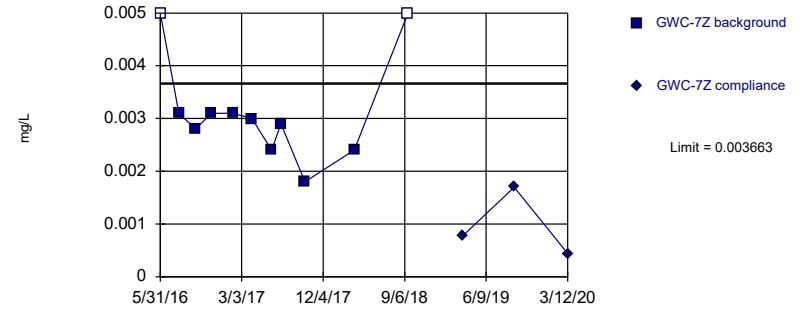


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

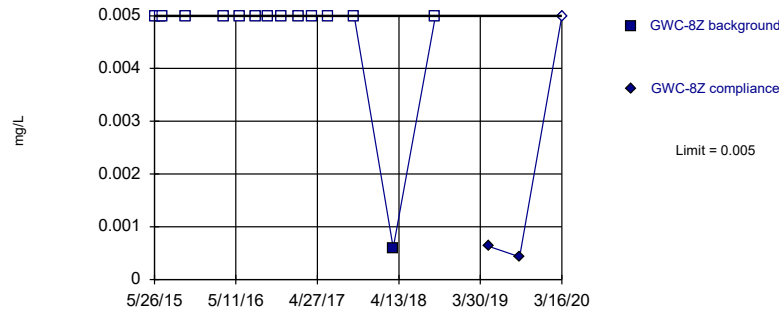


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002522, Std. Dev.=0.0005101, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8226, critical = 0.792. Kappa = 2.236 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

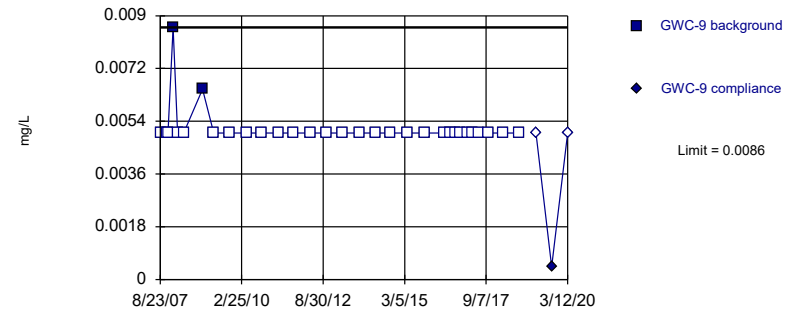


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.005	
10/25/2007	<0.005	
11/20/2007	<0.005	
1/23/2008	<0.005	
3/11/2008	<0.005	
5/14/2008	<0.005	
12/11/2008	<0.005	
4/23/2009	<0.005	
10/9/2009	<0.005	
5/4/2010	0.014 (o)	
10/11/2010	<0.005	
4/26/2011	<0.005	
10/18/2011	<0.005	
5/2/2012	<0.005	
10/8/2012	<0.005	
4/10/2013	<0.005	
10/8/2013	<0.005	
4/14/2014	<0.005	
10/3/2014	<0.005	
4/1/2015	<0.005	
10/9/2015	<0.005	
3/29/2016	<0.005	
5/24/2016	<0.005	
8/1/2016	<0.005	
9/26/2016	<0.005	
11/18/2016	<0.005	
2/1/2017	<0.005	
4/6/2017	0.0006 (J)	
6/13/2017	<0.005	
10/3/2017	<0.005	
3/19/2018	0.00089 (J)	
9/17/2018	<0.005	
3/21/2019		<0.005
9/16/2019		0.00071 (J)
3/12/2020		0.00055 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.005	
8/2/2016	0.0031 (J)	
9/27/2016	0.0028 (J)	
11/21/2016	0.0031 (J)	
2/1/2017	0.0031 (J)	
4/6/2017	0.003 (J)	
6/13/2017	0.0024 (J)	
7/14/2017	0.0029 (J)	
10/3/2017	0.0018 (J)	
3/20/2018	0.0024 (J)	
9/18/2018	<0.005	
3/21/2019		0.00077 (J)
9/13/2019		0.0017 (J)
3/12/2020		0.00044 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.005	
6/18/2015	<0.005 (D)	
7/2/2015	<0.005	
10/8/2015	<0.005	
3/22/2016	<0.005	
5/25/2016	<0.005	
8/2/2016	<0.005	
9/26/2016	<0.005	
11/21/2016	<0.005	
2/3/2017	<0.005	
4/7/2017	<0.005	
6/13/2017	<0.005	
10/3/2017	<0.005	
3/20/2018	0.0006 (J)	
9/18/2018	<0.005	
5/6/2019		0.00063 (J)
9/16/2019		0.00043 (J)
3/16/2020		<0.005

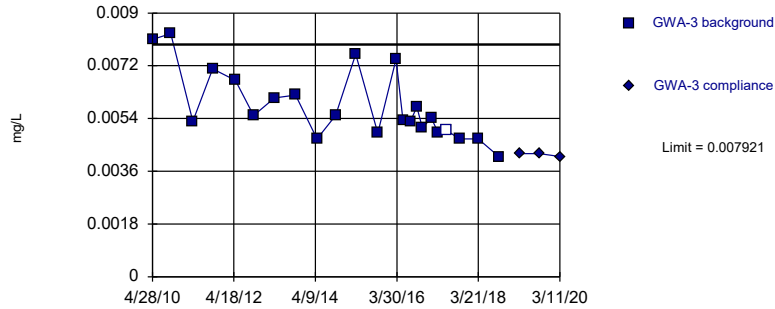
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/15/2008	0.0086	
3/6/2008	<0.005	
5/13/2008	<0.005	
12/12/2008	0.0065	
4/16/2009	<0.005	
10/13/2009	<0.005	
4/21/2010	<0.005	
9/29/2010	<0.005	
4/13/2011	<0.005	
10/5/2011	<0.005	
4/4/2012	<0.005	
10/8/2012	<0.005	
4/8/2013	<0.005	
10/9/2013	<0.005	
4/9/2014	<0.005	
9/30/2014	<0.005	
4/2/2015	<0.005	
10/10/2015	<0.005 (D)	
3/30/2016	0.0241 (o)	
5/26/2016	<0.005	
8/5/2016	<0.005	
9/28/2016	<0.005	
11/21/2016	<0.005	
2/6/2017	<0.005	
4/6/2017	<0.005	
6/13/2017	<0.005	
10/3/2017	<0.005	
3/20/2018	<0.005	
9/18/2018	<0.005 (D)	
3/21/2019		<0.005
9/16/2019		0.00044 (J)
3/12/2020		<0.005

Within Limit

Prediction Limit
Intrawell Parametric

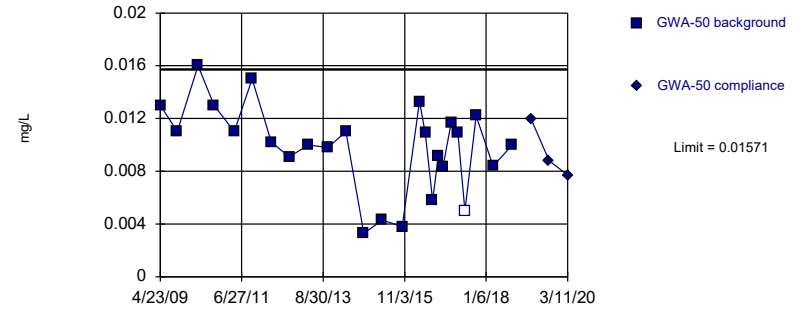


Background Data Summary: Mean=0.005815, Std. Dev.=0.001177, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.901, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

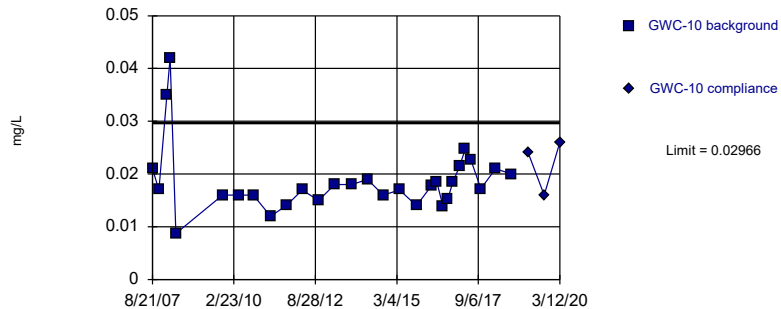


Background Data Summary: Mean=0.009848, Std. Dev.=0.003336, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9472, critical = 0.888. Kappa = 1.758 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

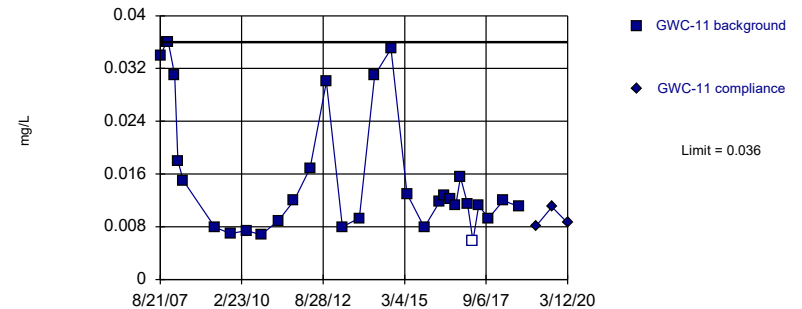


Background Data Summary (based on natural log transformation): Mean=4.024, Std. Dev.=0.2943, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.898. Kappa = 1.718 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 31 background values. 3.226% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	0.015 (o)	
11/2/2007	0.017 (o)	
11/18/2007	0.019 (o)	
1/31/2008	0.011 (o)	
3/11/2008	0.016 (o)	
5/14/2008	0.013 (o)	
12/5/2008	0.021 (o)	
4/15/2009	0.012 (o)	
10/8/2009	0.011 (o)	
4/28/2010	0.0081	
10/6/2010	0.0083	
4/21/2011	0.0053	
10/13/2011	0.0071	
5/1/2012	0.0067	
10/9/2012	0.0055	
4/11/2013	0.0061	
10/16/2013	0.0062	
4/23/2014	0.0047	
10/4/2014	0.0055	
3/31/2015	0.0076	
10/12/2015	0.0049	
3/23/2016	0.00742 (J)	
5/23/2016	0.00532 (J)	
7/29/2016	0.0053 (J)	
9/22/2016	0.0058 (J)	
11/10/2016	0.0051 (J)	
1/31/2017	0.0054 (J)	
3/30/2017	0.0049 (J)	
6/12/2017	<0.01	
10/4/2017	0.0047 (J)	
3/19/2018	0.0047 (J)	
9/17/2018	0.0041 (J)	
3/20/2019		0.0042 (J)
9/13/2019		0.0042 (J)
3/11/2020		0.0041 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	0.098 (o)	
4/23/2009	0.013	
10/6/2009	0.011	
4/27/2010	0.016	
9/30/2010	0.013	
4/14/2011	0.011	
10/5/2011	0.015	
4/11/2012	0.0102	
10/2/2012	0.0091	
4/9/2013	0.01	
10/15/2013	0.0098	
4/10/2014	0.011	
10/1/2014	0.0033	
3/30/2015	0.0043	
10/11/2015	0.0038	
3/28/2016	0.0133	
5/23/2016	0.0109	
8/1/2016	0.0058 (J)	
9/26/2016	0.0092 (J)	
11/10/2016	0.0083 (J)	
1/30/2017	0.0117	
4/7/2017	0.0109	
6/12/2017	<0.01	
10/2/2017	0.0122	
3/16/2018	0.0084 (J)	
9/17/2018	0.01	
3/19/2019		0.012
9/13/2019		0.0088 (J)
3/11/2020		0.0077 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	0.021	
11/1/2007	0.017	
11/20/2007	0.1 (o)	
1/30/2008	0.035	
3/6/2008	0.042	
5/12/2008	0.0087	
12/13/2008	0.12 (o)	
4/29/2009	0.11 (o)	
10/20/2009	0.016	
4/26/2010	0.016	
9/29/2010	0.016	
4/13/2011	0.012	
10/5/2011	0.014	
4/4/2012	0.017	
10/3/2012	0.015	
4/3/2013	0.018	
10/15/2013	0.018	
4/9/2014	0.019	
10/2/2014	0.016	
4/2/2015	0.017	
10/10/2015	0.014	
3/31/2016	0.0179	
5/26/2016	0.0186	
8/5/2016	0.0138	
9/28/2016	0.0153	
11/22/2016	0.0184 (J)	
2/7/2017	0.0215	
4/10/2017	0.0247	
6/14/2017	0.0227	
10/4/2017	0.0172	
3/20/2018	0.021	
9/18/2018	0.02	
3/22/2019		0.024
9/17/2019		0.016
3/12/2020		0.026

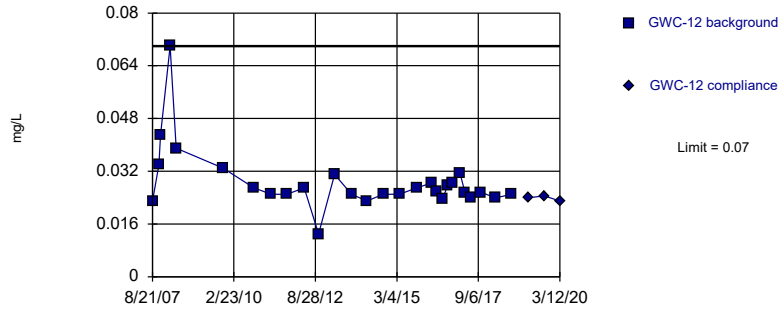
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	0.034	
11/1/2007	0.036	
11/18/2007	0.036	
1/30/2008	0.031 (J)	
3/5/2008	0.018	
5/7/2008	0.015	
12/14/2008	0.12 (o)	
4/29/2009	0.0079	
10/22/2009	0.007	
4/21/2010	0.0074	
9/28/2010	0.0068	
4/12/2011	0.0089	
10/4/2011	0.012	
4/3/2012	0.0169	
10/3/2012	0.03	
4/3/2013	0.008	
10/9/2013	0.0093	
4/2/2014	0.031	
10/2/2014	0.035	
4/1/2015	0.013	
10/11/2015	0.0079	
4/4/2016	0.0119	
5/26/2016	0.0127	
8/3/2016	0.0121	
9/28/2016	0.0112	
11/22/2016	0.0155 (J)	
2/8/2017	0.0115	
4/10/2017	<0.0117	
6/15/2017	0.0112	
10/4/2017	0.0093 (J)	
3/21/2018	0.012	
9/18/2018	0.011	
3/23/2019		0.0081 (J)
9/17/2019		0.011
3/12/2020		0.0086 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

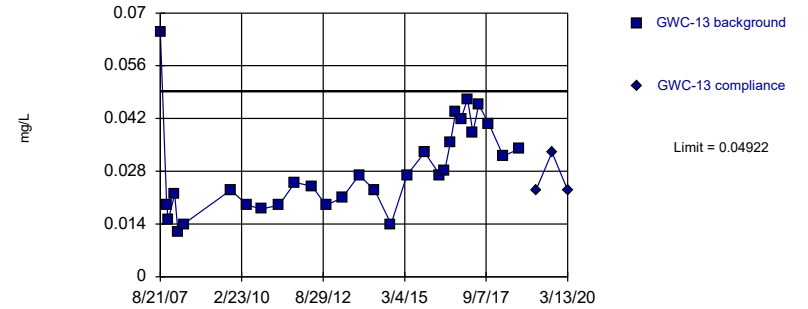


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. Well-constituent pair annual alpha = 0.0004633. Individual comparison alpha = 0.0002317 (1 of 3).

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

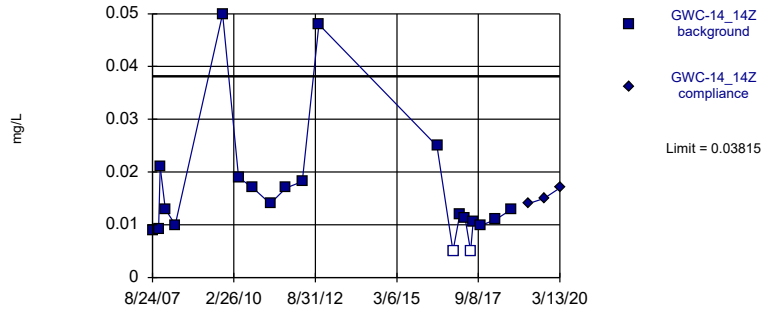


Background Data Summary: Mean=0.02845, Std. Dev.=0.01216, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.9. Kappa = 1.708 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

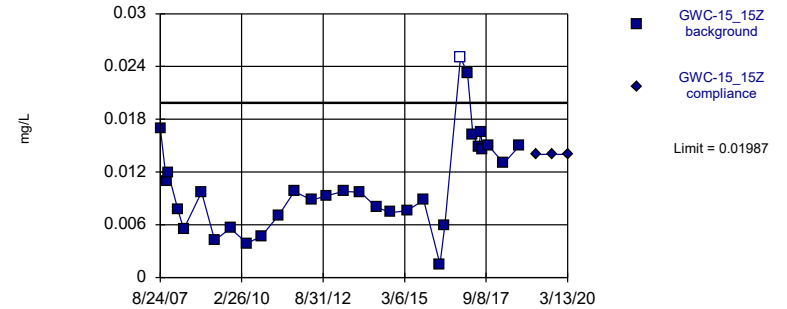


Background Data Summary (based on cube root transformation): Mean=0.2446, Std. Dev.=0.05056, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8857, critical = 0.873. Kappa = 1.82 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0106, Std. Dev.=0.00545, n=31, 3.226% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.939, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	0.023	
11/1/2007	0.034	
11/19/2007	0.043	
1/16/2008	0.13 (o)	
3/5/2008	0.07	
5/13/2008	0.039	
12/13/2008	0.13 (o)	
4/16/2009	0.13 (o)	
10/21/2009	0.033	
4/27/2010	0.11 (o)	
10/5/2010	0.027	
4/19/2011	0.025	
10/12/2011	0.025	
4/24/2012	0.027	
10/2/2012	0.013	
4/2/2013	0.031	
10/9/2013	0.025	
4/1/2014	0.023	
10/2/2014	0.025	
4/1/2015	0.025	
10/14/2015	0.027	
4/4/2016	0.0285	
5/27/2016	0.0257	
8/3/2016	0.0237	
9/30/2016	0.0279	
11/22/2016	0.0286 (J)	
2/13/2017	0.0313	
4/11/2017	0.0254	
6/14/2017	0.0241	
10/4/2017	0.0256	
3/22/2018	0.024	
9/18/2018	0.025	
3/23/2019		0.024
9/17/2019		0.0245 (D)
3/12/2020		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	0.065	
11/1/2007	0.019	
11/19/2007	0.015	
1/31/2008	0.022	
3/5/2008	0.012	
5/12/2008	0.014	
12/13/2008	0.11 (o)	
4/28/2009	0.12 (o)	
10/21/2009	0.023	
4/28/2010	0.019	
10/5/2010	0.018	
4/19/2011	0.019	
10/18/2011	0.025	
4/25/2012	0.024	
10/2/2012	0.019	
4/2/2013	0.021	
10/8/2013	0.027	
4/1/2014	0.023	
10/1/2014	0.014	
4/1/2015	0.027	
10/15/2015	0.033	
4/4/2016	0.027	
5/31/2016	0.0283	
8/4/2016	0.0358	
9/29/2016	0.0437	
11/28/2016	0.0419 (J)	
2/9/2017	0.0472	
4/12/2017	0.0383	
6/16/2017	0.0457	
10/9/2017	0.0406	
3/21/2018	0.032	
9/19/2018	0.034	
3/23/2019		0.023
9/18/2019		0.033
3/13/2020		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	0.0089	
11/2/2007	0.0091	
11/17/2007	0.021	
1/15/2008	0.013	
3/5/2008	0.11 (o)	
5/7/2008	0.01	
12/2/2008	0.12 (o)	
4/16/2009	0.13 (o)	
10/20/2009	0.05	
4/20/2010	0.019	
9/29/2010	0.017	
4/12/2011	0.014	
10/4/2011	0.017	
4/4/2012	0.0182	
10/10/2012	0.048	
4/15/2013	0.03 (o)	
10/22/2013	0.033 (o)	
4/21/2014	0.033 (o)	
9/30/2014	0.027 (o)	
4/3/2015	0.13 (o)	
10/7/2015	0.047 (o)	
4/5/2016	0.0279 (o)	
6/1/2016	0.0249	
8/9/2016	0.0268 (o)	
11/28/2016	<0.01	
2/9/2017	0.0119	
4/11/2017	0.0112 (D)	
6/14/2017	<0.01	
7/12/2017	0.0105	
10/5/2017	0.0099 (J)	
3/22/2018	0.011	
9/19/2018	0.013	
3/22/2019		0.014
9/17/2019		0.015
3/13/2020		0.017

Prediction Limit

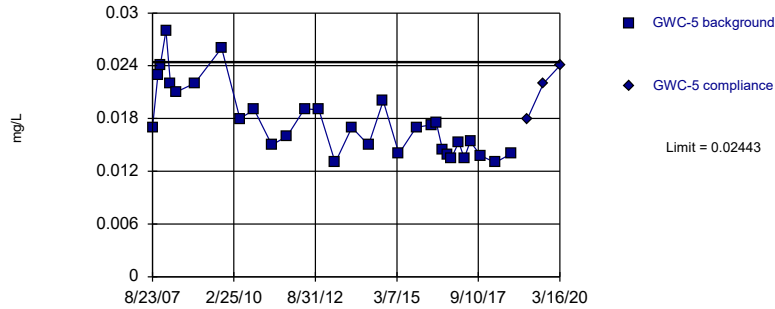
Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	0.017	
11/2/2007	0.011	
11/18/2007	0.012 (J)	
1/15/2008	0.088 (o)	
3/10/2008	0.0077	
5/13/2008	0.0055	
12/2/2008	0.0097	
4/28/2009	0.0042	
10/20/2009	0.0056	
4/27/2010	0.0039	
10/5/2010	0.0047	
4/19/2011	0.0071	
10/12/2011	0.0098	
4/25/2012	0.0088	
10/10/2012	0.0093	
4/16/2013	0.0098	
10/22/2013	0.0097	
4/21/2014	0.008	
9/30/2014	0.0074	
4/3/2015	0.0076	
10/6/2015	0.0088	
4/5/2016	0.00153 (J)	
5/31/2016	0.00589 (J)	
11/23/2016	<0.05	
2/10/2017	0.0233	
4/11/2017	0.0162	
6/15/2017	0.0148	
7/12/2017	0.0166	
7/26/2017	0.0146	
10/6/2017	0.015	
3/23/2018	0.013	
9/19/2018	0.015	
3/22/2019		0.014
9/17/2019		0.014
3/13/2020		0.014

Within Limit

Prediction Limit
Intrawell Parametric

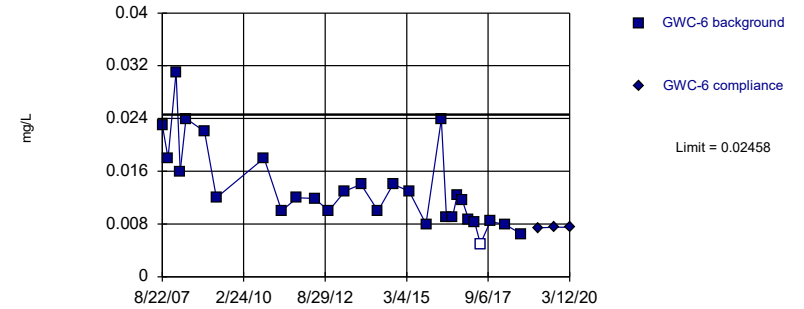


Background Data Summary: Mean=0.01764, Std. Dev.=0.003992, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

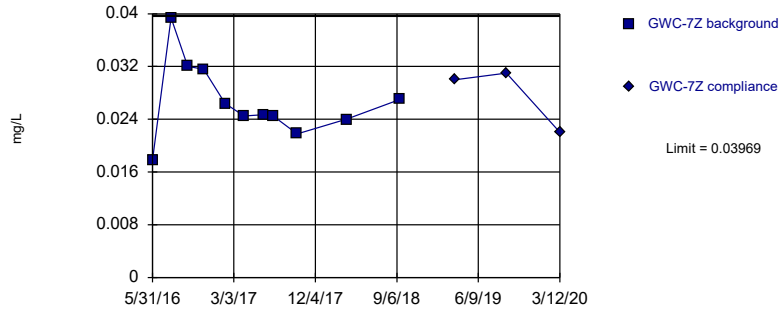


Background Data Summary (based on square root transformation): Mean=0.1134, Std. Dev.=0.02526, n=29, 3.448% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.898. Kappa = 1.718 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

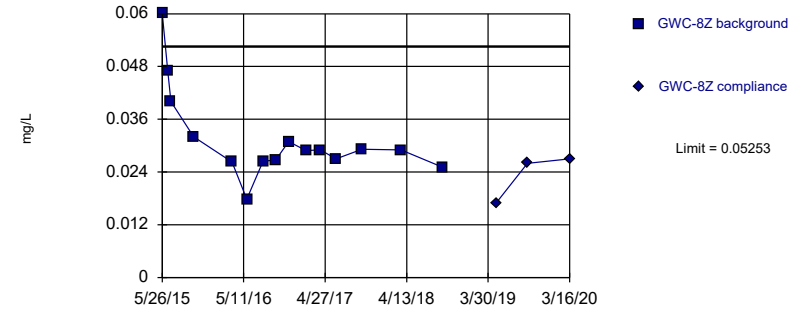


Background Data Summary: Mean=0.0267, Std. Dev.=0.005812, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9261, critical = 0.792. Kappa = 2.236 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1761, Std. Dev.=0.02662, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.835. Kappa = 1.993 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.017	
10/25/2007	0.023	
11/19/2007	0.024	
1/23/2008	0.028	
3/11/2008	0.022	
5/12/2008	0.021	
12/11/2008	0.022	
4/15/2009	0.13 (o)	
10/9/2009	0.026	
5/4/2010	0.018	
10/12/2010	0.019	
4/28/2011	0.015	
10/19/2011	0.016	
5/2/2012	0.0191	
10/9/2012	0.019	
4/11/2013	0.013	
10/16/2013	0.017	
4/23/2014	0.015	
10/3/2014	0.02	
3/31/2015	0.014	
10/12/2015	0.017	
3/28/2016	0.0173	
5/25/2016	0.0175	
8/1/2016	0.0145	
9/27/2016	0.0139	
11/11/2016	0.0135	
1/31/2017	0.0153	
4/3/2017	0.0135	
6/12/2017	0.0154	
10/3/2017	0.0138	
3/19/2018	0.013	
9/17/2018	0.014	
3/20/2019		0.018
9/16/2019		0.022
3/16/2020		0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	0.023	
10/25/2007	0.018	
11/20/2007	0.1 (o)	
1/23/2008	0.031	
3/11/2008	0.016	
5/14/2008	0.024	
12/11/2008	0.022	
4/23/2009	0.012	
10/9/2009	0.11 (o)	
5/4/2010	0.096 (o)	
10/11/2010	0.018	
4/26/2011	0.01	
10/18/2011	0.012	
5/2/2012	0.0119	
10/8/2012	0.01	
4/10/2013	0.013	
10/8/2013	0.014	
4/14/2014	0.01	
10/3/2014	0.014	
4/1/2015	0.013	
10/9/2015	0.008	
3/29/2016	0.0239 (J)	
5/24/2016	0.00902 (J)	
8/1/2016	0.0091 (J)	
9/26/2016	0.0124	
11/18/2016	0.0117	
2/1/2017	0.0086 (J)	
4/6/2017	0.0083 (J)	
6/13/2017	<0.01	
10/3/2017	0.0084 (J)	
3/19/2018	0.0079 (J)	
9/17/2018	0.0065 (J)	
3/21/2019		0.0074 (J)
9/16/2019		0.0075 (J)
3/12/2020		0.0075 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	0.0178	
8/2/2016	0.0394	
9/27/2016	0.032	
11/21/2016	0.0316 (J)	
2/1/2017	0.0264	
4/6/2017	0.0245	
6/13/2017	0.0247	
7/14/2017	0.0245	
10/3/2017	0.0218	
3/20/2018	0.024	
9/18/2018	0.027	
3/21/2019		0.03
9/13/2019		0.031
3/12/2020		0.022

Prediction Limit

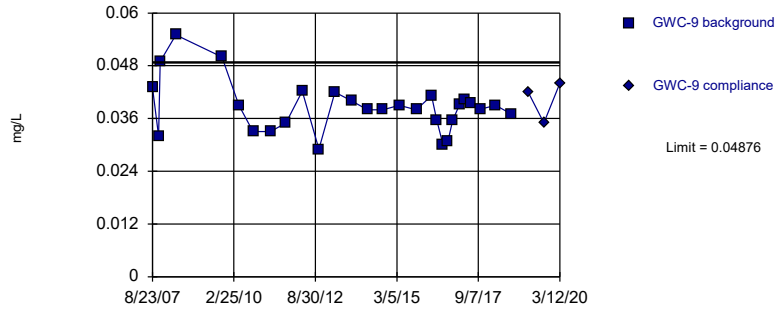
Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	0.06	
6/18/2015	0.047 (D)	
7/2/2015	0.04	
10/8/2015	0.032	
3/22/2016	0.0263	
5/25/2016	0.0178	
8/2/2016	0.0265	
9/26/2016	0.0267	
11/21/2016	0.0309 (J)	
2/3/2017	0.0289	
4/7/2017	0.029	
6/13/2017	0.027	
10/3/2017	0.0292	
3/20/2018	0.029	
9/18/2018	0.025	
5/6/2019		0.017
9/16/2019		0.026
3/16/2020		0.027

Within Limit

Prediction Limit
Intrawell Parametric

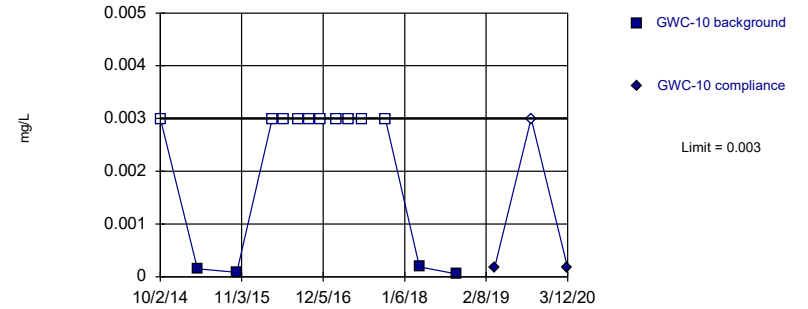


Background Data Summary: Mean=0.03862, Std. Dev.=0.005872, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.896. Kappa = 1.728 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

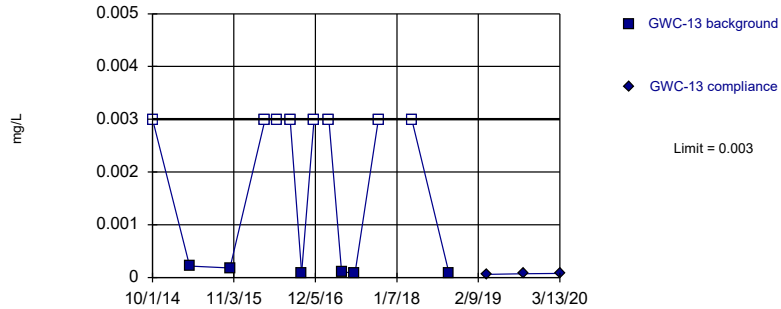


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:23 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

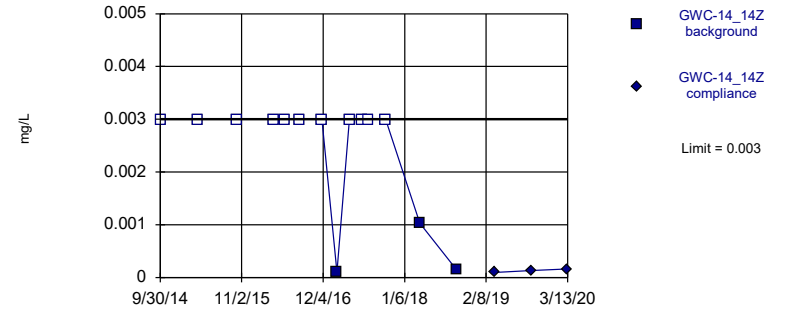


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	0.043	
11/1/2007	0.032	
11/19/2007	0.049 (J)	
1/15/2008	0.12 (o)	
3/6/2008	0.075 (o)	
5/13/2008	0.055	
12/12/2008	0.16 (o)	
4/16/2009	0.15 (o)	
10/13/2009	0.05	
4/21/2010	0.039	
9/29/2010	0.033	
4/13/2011	0.033	
10/5/2011	0.035	
4/4/2012	0.0422	
10/8/2012	0.029	
4/8/2013	0.042	
10/9/2013	0.04	
4/9/2014	0.038	
9/30/2014	0.038	
4/2/2015	0.039	
10/10/2015	0.038 (D)	
3/30/2016	0.0412	
5/26/2016	0.0357	
8/5/2016	0.03	
9/28/2016	0.0308	
11/21/2016	0.0356 (J)	
2/6/2017	0.0391	
4/6/2017	0.0402	
6/13/2017	0.0394	
10/3/2017	0.0381	
3/20/2018	0.039	
9/18/2018	0.037	
3/21/2019		0.042
9/16/2019		0.035
3/12/2020		0.044

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
10/2/2014	<0.003	
4/2/2015	0.00015 (J)	
10/10/2015	8.5E-05 (J)	
3/31/2016	<0.003	
5/26/2016	<0.003	
8/5/2016	<0.003	
9/28/2016	<0.003	
11/22/2016	<0.003	
2/7/2017	<0.003	
4/10/2017	<0.003	
6/14/2017	<0.003	
10/4/2017	<0.003	
3/20/2018	0.00019 (J)	
9/18/2018	5.4E-05 (J)	
3/22/2019		0.00018 (J)
9/17/2019		<0.003
3/12/2020		0.00017 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
10/1/2014	<0.003	
4/1/2015	0.00022 (J)	
10/15/2015	0.00018 (J)	
4/4/2016	<0.003	
5/31/2016	<0.003	
8/4/2016	<0.003	
9/29/2016	9E-05 (J)	
11/28/2016	<0.003	
2/9/2017	<0.003	
4/12/2017	0.0001 (J)	
6/16/2017	9E-05 (J)	
10/9/2017	<0.003	
3/21/2018	<0.003	
9/19/2018	7E-05 (J)	
3/23/2019		6.1E-05 (J)
9/18/2019		7.4E-05 (J)
3/13/2020		8E-05 (J)

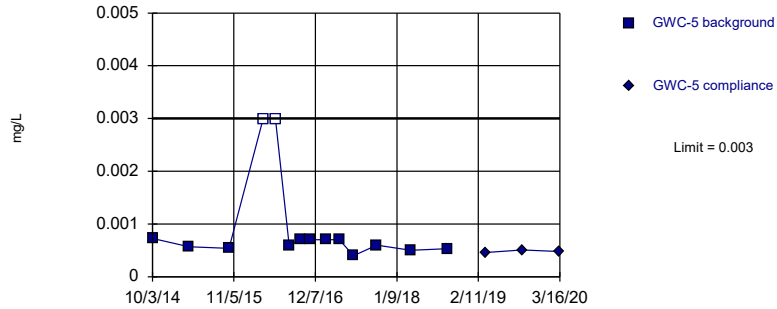
Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
9/30/2014	<0.003	
4/3/2015	<0.003	
10/7/2015	<0.003	
4/5/2016	<0.003	
6/1/2016	<0.003	
8/9/2016	<0.003	
11/28/2016	<0.003	
2/9/2017	0.0001 (J)	
4/11/2017	<0.003	
6/14/2017	<0.003	
7/12/2017	<0.003	
10/5/2017	<0.003	
3/22/2018	0.00103 (D)	
9/19/2018	0.00014 (J)	
3/22/2019		9.4E-05 (J)
9/17/2019		0.00013 (X)
3/13/2020		0.00016 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

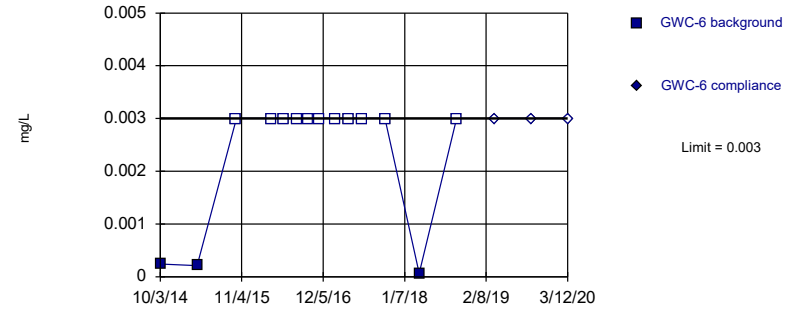


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 14.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

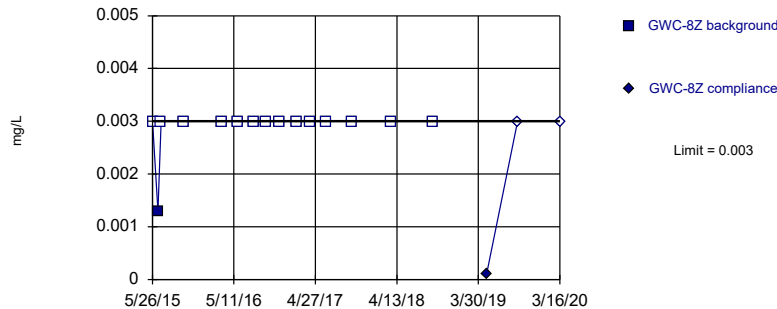


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

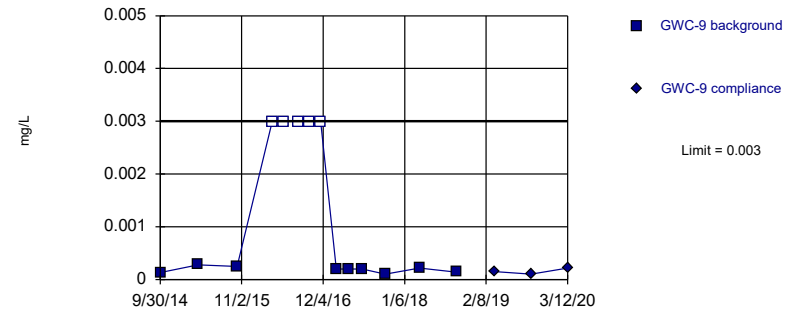


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 14 background values. 35.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
10/3/2014	0.00073 (J)	
3/31/2015	0.00057 (J)	
10/12/2015	0.00054 (J)	
3/28/2016	<0.003	
5/25/2016	<0.003	
8/1/2016	0.0006 (J)	
9/27/2016	0.0007 (J)	
11/11/2016	0.0007 (J)	
1/31/2017	0.0007 (J)	
4/3/2017	0.0007 (J)	
6/12/2017	0.0004 (J)	
10/3/2017	0.0006 (J)	
3/19/2018	0.0005 (J)	
9/17/2018	0.00053 (J)	
3/20/2019		0.00046 (J)
9/16/2019		0.00051 (J)
3/16/2020		0.00048 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
10/3/2014	0.00024 (J)	
4/1/2015	0.00021 (J)	
10/9/2015	<0.003	
3/29/2016	<0.003	
5/24/2016	<0.003	
8/1/2016	<0.003	
9/26/2016	<0.003	
11/18/2016	<0.003	
2/1/2017	<0.003	
4/6/2017	<0.003	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/19/2018	6.6E-05 (J)	
9/17/2018	<0.003	
3/21/2019		<0.003
9/16/2019		<0.003
3/12/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.003	
6/18/2015	0.0013 (D)	
7/2/2015	<0.003	
10/8/2015	<0.003	
3/22/2016	<0.003	
5/25/2016	<0.003	
8/2/2016	<0.003	
9/26/2016	<0.003	
11/21/2016	<0.003	
2/3/2017	<0.003	
4/7/2017	<0.003	
6/13/2017	<0.003	
10/3/2017	<0.003	
3/20/2018	<0.003	
9/18/2018	<0.003	
5/6/2019		0.0001 (J)
9/16/2019		<0.003
3/16/2020		<0.003

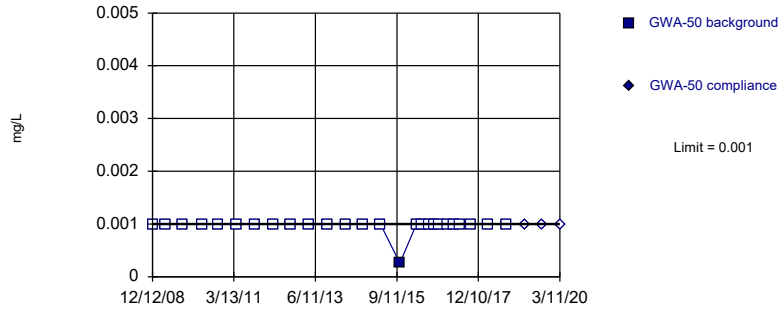
Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
9/30/2014	0.00013 (J)	
4/2/2015	0.00028 (J)	
10/10/2015	0.000245 (JD)	
3/30/2016	<0.003	
5/26/2016	<0.003	
8/5/2016	<0.003	
9/28/2016	<0.003	
11/21/2016	<0.003	
2/6/2017	0.0002 (J)	
4/6/2017	0.0002 (J)	
6/13/2017	0.0002 (J)	
10/3/2017	0.0001 (J)	
3/20/2018	0.00022 (J)	
9/18/2018	0.00014 (JD)	
3/21/2019		0.00015 (J)
9/16/2019		0.0001 (J)
3/12/2020		0.00022 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

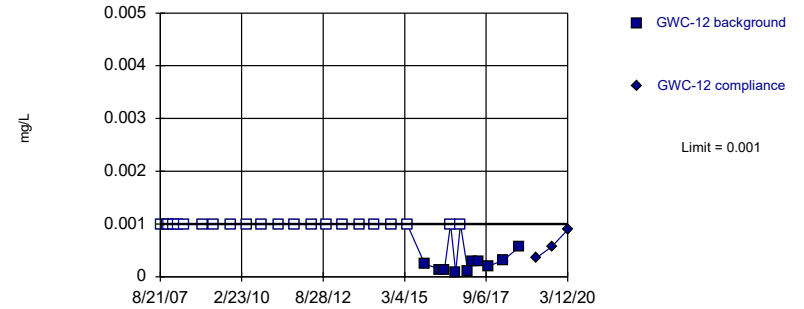


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

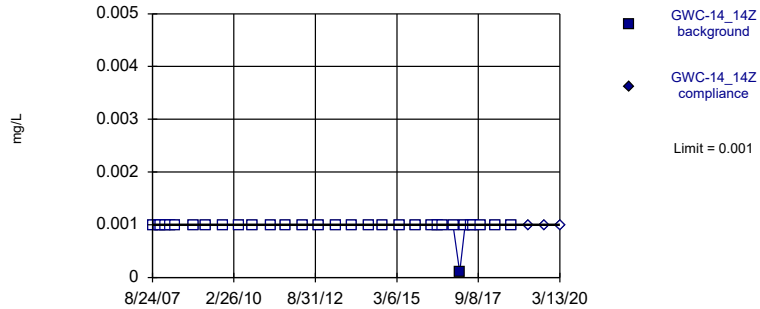


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

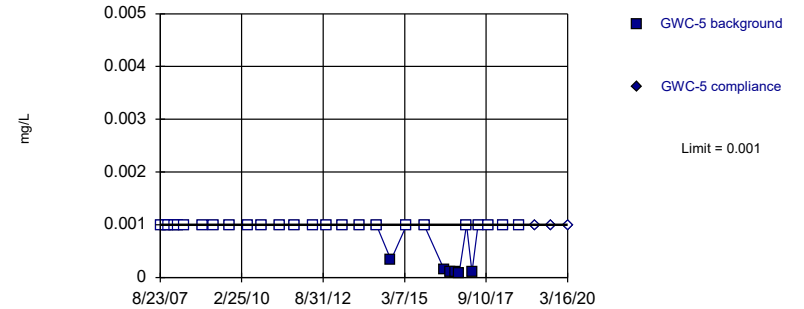


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 31 background values. 80.65% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.001	
4/23/2009	<0.001	
10/6/2009	<0.001	
4/27/2010	<0.001	
9/30/2010	<0.001	
4/14/2011	<0.001	
10/5/2011	<0.001	
4/11/2012	<0.001	
10/2/2012	<0.001	
4/9/2013	<0.001	
10/15/2013	<0.001	
4/10/2014	<0.001	
10/1/2014	<0.001	
3/30/2015	<0.001	
10/11/2015	0.00026 (J)	
3/28/2016	<0.001	
5/23/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	<0.001	
11/10/2016	<0.001	
1/30/2017	<0.001	
4/7/2017	<0.001	
6/12/2017	<0.001	
10/2/2017	<0.001	
3/16/2018	<0.001	
9/17/2018	<0.001	
3/19/2019		<0.001
9/13/2019		<0.001
3/11/2020		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.001	
11/1/2007	<0.001	
11/19/2007	<0.001	
1/16/2008	<0.001	
3/5/2008	<0.001	
5/13/2008	<0.001	
12/13/2008	<0.001	
4/16/2009	<0.001	
10/21/2009	<0.001	
4/27/2010	<0.001	
10/5/2010	<0.001	
4/19/2011	<0.001	
10/12/2011	<0.001	
4/24/2012	<0.001	
10/2/2012	<0.001	
4/2/2013	<0.001	
10/9/2013	<0.001	
4/1/2014	<0.001	
10/2/2014	<0.001	
4/1/2015	<0.001	
10/14/2015	0.00025 (J)	
4/4/2016	0.000136 (J)	
5/27/2016	0.000131 (J)	
8/3/2016	<0.001	
9/30/2016	9E-05 (J)	
11/22/2016	<0.001	
2/13/2017	0.0001 (J)	
4/11/2017	0.0003 (J)	
6/14/2017	0.0003 (J)	
10/4/2017	0.0002 (J)	
3/22/2018	0.00032 (J)	
9/18/2018	0.00057 (J)	
3/23/2019		0.00035 (J)
9/17/2019		0.000575 (JD)
3/12/2020		0.00089 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	<0.001	
11/2/2007	<0.001	
11/17/2007	<0.001	
1/15/2008	<0.001	
3/5/2008	<0.001	
5/7/2008	<0.001	
12/2/2008	<0.001	
4/16/2009	<0.001	
10/20/2009	<0.001	
4/20/2010	<0.001	
9/29/2010	<0.001	
4/12/2011	<0.001	
10/4/2011	<0.001	
4/4/2012	<0.001	
10/10/2012	<0.001	
4/15/2013	<0.001	
10/22/2013	<0.001	
4/21/2014	<0.001	
9/30/2014	<0.001	
4/3/2015	<0.001	
10/7/2015	<0.001	
4/5/2016	<0.001	
6/1/2016	<0.001	
8/9/2016	<0.001	
11/28/2016	<0.001	
2/9/2017	0.0001 (J)	
4/11/2017	<0.001	
6/14/2017	<0.001	
7/12/2017	<0.001	
10/5/2017	<0.001	
3/22/2018	<0.001	
9/19/2018	<0.001	
3/22/2019		<0.001
9/17/2019		<0.001
3/13/2020		<0.001

Prediction Limit

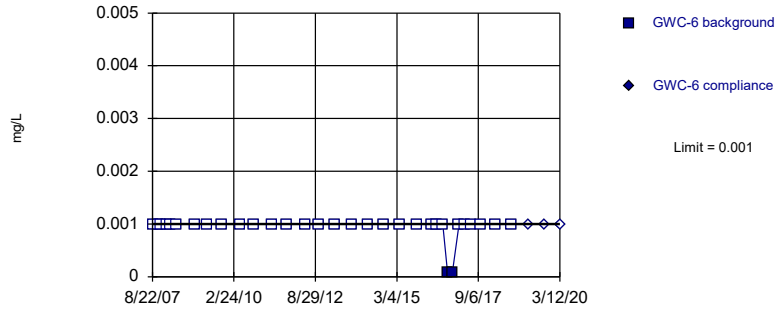
Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.001	
10/25/2007	<0.001	
11/19/2007	<0.001	
1/23/2008	<0.001	
3/11/2008	<0.001	
5/12/2008	<0.001	
12/11/2008	<0.001	
4/15/2009	<0.001	
10/9/2009	<0.001	
5/4/2010	<0.001	
10/12/2010	<0.001	
4/28/2011	<0.001	
10/19/2011	<0.001	
5/2/2012	<0.001	
10/9/2012	<0.001	
4/11/2013	<0.001	
10/16/2013	<0.001	
4/23/2014	<0.001	
10/3/2014	0.00033 (J)	
3/31/2015	<0.001	
10/12/2015	<0.001	
3/28/2016	0.00104 (o)	
5/25/2016	0.000148 (J)	
8/1/2016	0.0001 (J)	
9/27/2016	0.0001 (J)	
11/11/2016	9E-05 (J)	
1/31/2017	<0.001	
4/3/2017	0.0001 (J)	
6/12/2017	<0.001	
10/3/2017	<0.001	
3/19/2018	<0.001	
9/17/2018	<0.001	
3/20/2019		<0.001
9/16/2019		<0.001
3/16/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

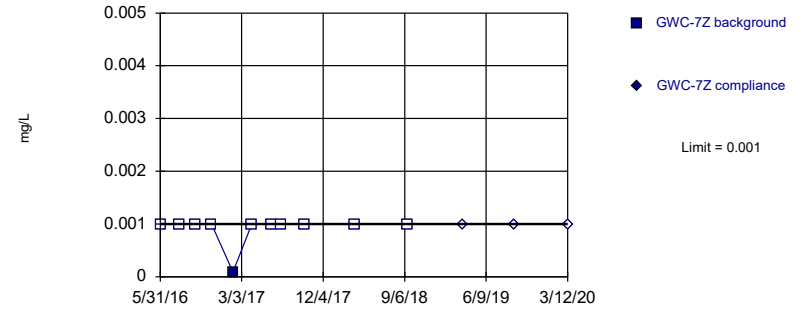


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

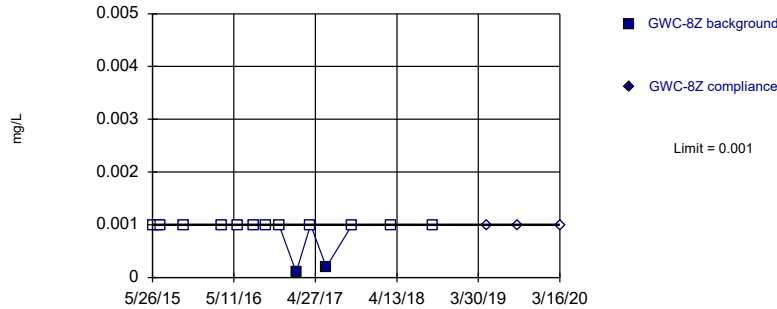


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

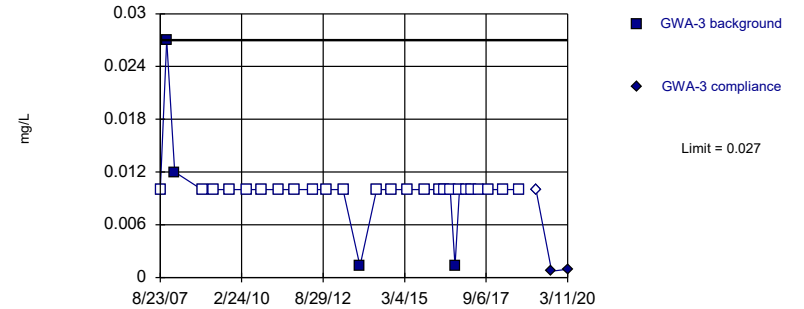


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Cadmium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 29 background values. 86.21% NDs. Well-constituent pair annual alpha = 0.0004147. Individual comparison alpha = 0.0002074 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.001	
10/25/2007	<0.001	
11/20/2007	<0.001	
1/23/2008	<0.001	
3/11/2008	<0.001	
5/14/2008	<0.001	
12/11/2008	<0.001	
4/23/2009	<0.001	
10/9/2009	<0.001	
5/4/2010	<0.001	
10/11/2010	<0.001	
4/26/2011	<0.001	
10/18/2011	<0.001	
5/2/2012	<0.001	
10/8/2012	<0.001	
4/10/2013	<0.001	
10/8/2013	<0.001	
4/14/2014	<0.001	
10/3/2014	<0.001	
4/1/2015	<0.001	
10/9/2015	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	8E-05 (J)	
11/18/2016	8E-05 (J)	
2/1/2017	<0.001	
4/6/2017	<0.001	
6/13/2017	<0.001	
10/3/2017	<0.001	
3/19/2018	<0.001	
9/17/2018	<0.001	
3/21/2019		<0.001
9/16/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.001	
8/2/2016	<0.001	
9/27/2016	<0.001	
11/21/2016	<0.001	
2/1/2017	9E-05 (J)	
4/6/2017	<0.001	
6/13/2017	<0.001	
7/14/2017	<0.001	
10/3/2017	<0.001	
3/20/2018	<0.001	
9/18/2018	<0.001	
3/21/2019		<0.001
9/13/2019		<0.001
3/12/2020		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.001	
6/18/2015	<0.001 (D)	
7/2/2015	<0.001	
10/8/2015	<0.001	
3/22/2016	<0.001	
5/25/2016	<0.001	
8/2/2016	<0.001	
9/26/2016	<0.001	
11/21/2016	<0.001	
2/3/2017	0.0001 (J)	
4/7/2017	<0.001	
6/13/2017	0.0002 (J)	
10/3/2017	<0.001	
3/20/2018	<0.001	
9/18/2018	<0.001	
5/6/2019		<0.001
9/16/2019		<0.001
3/16/2020		<0.001

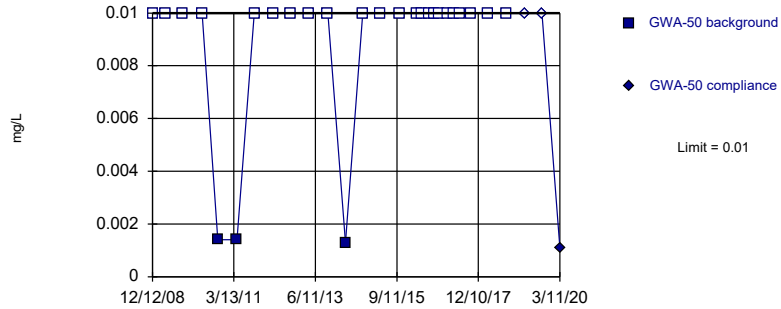
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	<0.01	
11/2/2007	0.027	
11/18/2007	0.17 (o)	
1/31/2008	0.012	
3/11/2008	0.063 (o)	
5/14/2008	0.057 (o)	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/8/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/21/2011	<0.01	
10/13/2011	<0.01	
5/1/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	0.0013	
4/23/2014	<0.01	
10/4/2014	<0.01	
3/31/2015	<0.01	
10/12/2015	<0.01	
3/23/2016	<0.01	
5/23/2016	<0.01	
7/29/2016	<0.01	
9/22/2016	0.0013 (J)	
11/10/2016	<0.01	
1/31/2017	<0.01	
3/30/2017	<0.01	
6/12/2017	<0.01	
10/4/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/13/2019		0.00073 (J)
3/11/2020		0.00095 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

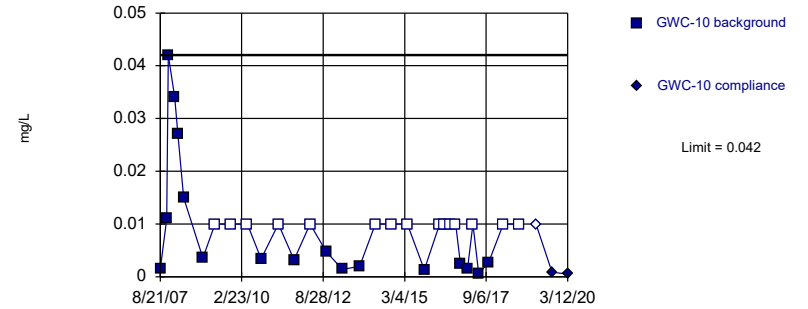


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

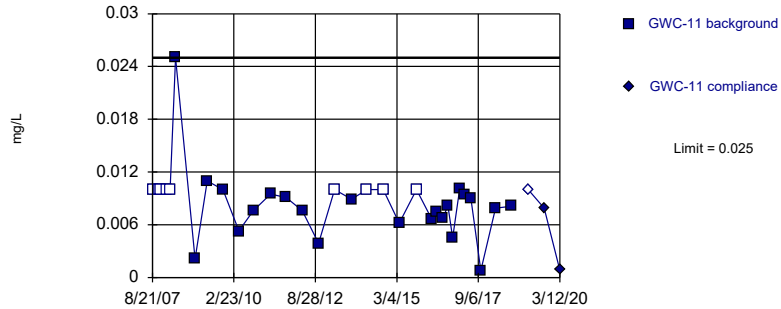


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 46.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

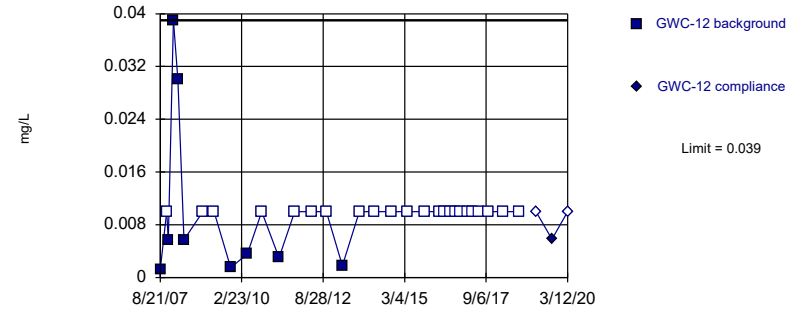


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 28.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.01	
4/23/2009	<0.01	
10/6/2009	<0.01	
4/27/2010	<0.01	
9/30/2010	0.0014	
4/14/2011	0.0014	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/2/2012	<0.01	
4/9/2013	<0.01	
10/15/2013	<0.01	
4/10/2014	0.0013 (J)	
10/1/2014	<0.01	
3/30/2015	<0.01	
10/11/2015	<0.01	
3/28/2016	<0.01	
5/23/2016	<0.01	
8/1/2016	<0.01	
9/26/2016	<0.01	
11/10/2016	<0.01	
1/30/2017	<0.01	
4/7/2017	<0.01	
6/12/2017	<0.01	
10/2/2017	<0.01	
3/16/2018	<0.01	
9/17/2018	<0.01	
3/19/2019		<0.01
9/13/2019		<0.01
3/11/2020		0.0011 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	0.0015	
11/1/2007	0.011	
11/20/2007	0.042	
1/30/2008	0.034	
3/6/2008	0.027	
5/12/2008	0.015	
12/13/2008	0.0036	
4/29/2009	<0.01	
10/20/2009	<0.01	
4/26/2010	<0.01	
9/29/2010	0.0034	
4/13/2011	<0.01	
10/5/2011	0.0032	
4/4/2012	<0.01	
10/3/2012	0.0047	
4/3/2013	0.0014	
10/15/2013	0.002	
4/9/2014	<0.01	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	0.0013	
3/31/2016	<0.01	
5/26/2016	<0.01	
8/5/2016	<0.01	
9/28/2016	<0.01	
11/22/2016	0.0024 (J)	
2/7/2017	0.0015 (J)	
4/10/2017	<0.01	
6/14/2017	0.0006 (J)	
10/4/2017	0.0027 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.0009 (J)
3/12/2020		0.00047 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	0.025	
12/14/2008	0.0021	
4/29/2009	0.011	
10/22/2009	0.01	
4/21/2010	0.0053	
9/28/2010	0.0076	
4/12/2011	0.0095	
10/4/2011	0.0091	
4/3/2012	0.0076	
10/3/2012	0.0039	
4/3/2013	<0.01	
10/9/2013	0.0089	
4/2/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	0.0062	
10/11/2015	<0.01	
4/4/2016	0.00656 (J)	
5/26/2016	0.00752 (J)	
8/3/2016	0.0067 (J)	
9/28/2016	0.0082 (J)	
11/22/2016	0.0045 (J)	
2/8/2017	0.0101	
4/10/2017	0.0094 (J)	
6/15/2017	0.009 (J)	
10/4/2017	0.0008 (J)	
3/21/2018	0.0079 (J)	
9/18/2018	0.0081 (J)	
3/23/2019		<0.01
9/17/2019		0.0079 (J)
3/12/2020		0.00084 (J)

Prediction Limit

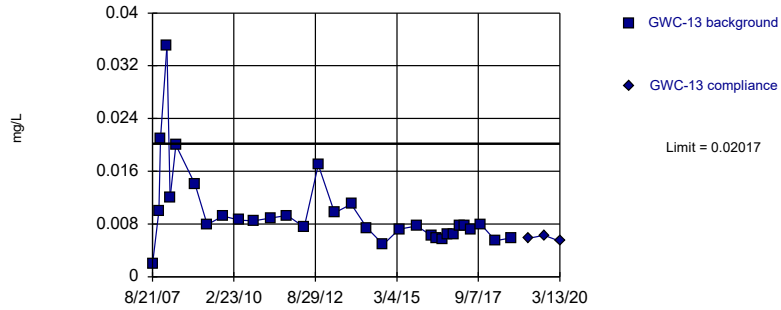
Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	0.0013	
11/1/2007	<0.01	
11/19/2007	0.0056	
1/16/2008	0.039	
3/5/2008	0.03	
5/13/2008	0.0057	
12/13/2008	<0.01	
4/16/2009	<0.01	
10/21/2009	0.0015	
4/27/2010	0.0036	
10/5/2010	<0.01	
4/19/2011	0.003	
10/12/2011	<0.01	
4/24/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	0.0018	
10/9/2013	<0.01	
4/1/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
5/27/2016	<0.01	
8/3/2016	<0.01	
9/30/2016	<0.01	
11/22/2016	<0.01	
2/13/2017	<0.01	
4/11/2017	<0.01	
6/14/2017	<0.01	
10/4/2017	<0.01	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		0.0058 (D)
3/12/2020		<0.01

Within Limit

Prediction Limit
Intrawell Parametric

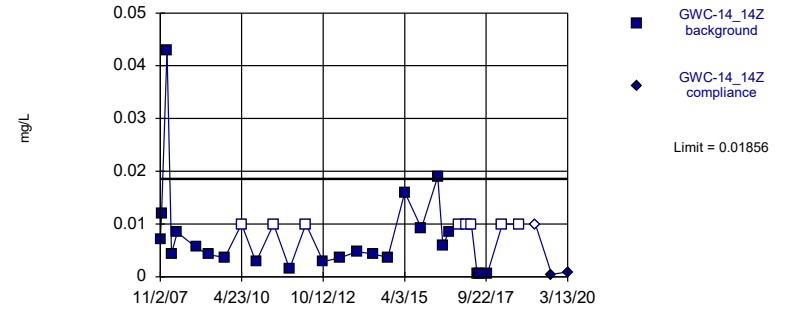


Background Data Summary (based on natural log transformation): Mean=-4.769, Std. Dev.=0.511, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9189, critical = 0.904. Kappa = 1.694 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

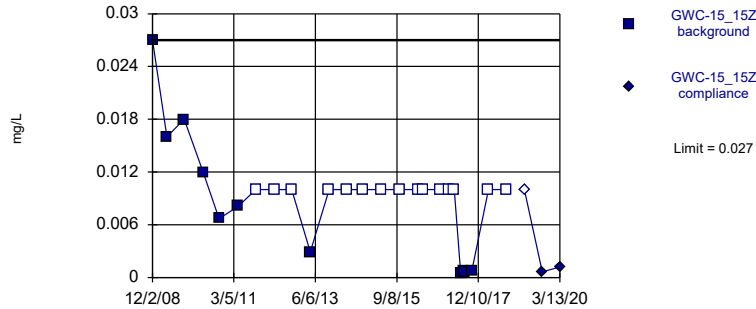


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07182, Std. Dev.=0.03787, n=31, 25.81% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

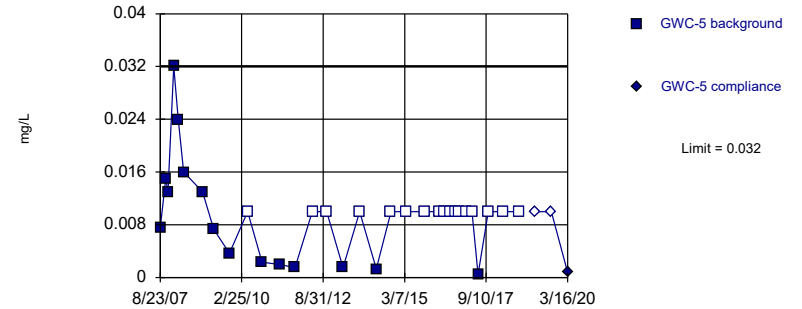


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 57.69% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	0.0019	
11/1/2007	0.01	
11/19/2007	0.021	
1/31/2008	0.035	
3/5/2008	0.012	
5/12/2008	0.02	
12/13/2008	0.014	
4/28/2009	0.0079	
10/21/2009	0.0092	
4/28/2010	0.0086	
10/5/2010	0.0085	
4/19/2011	0.0089	
10/18/2011	0.0093	
4/25/2012	0.0075	
10/2/2012	0.017	
4/2/2013	0.0097	
10/8/2013	0.011	
4/1/2014	0.0074	
10/1/2014	0.0049	
4/1/2015	0.0072	
10/15/2015	0.0077	
4/4/2016	0.00615 (J)	
5/31/2016	0.00588 (J)	
8/4/2016	0.0056 (J)	
9/29/2016	0.0065 (J)	
11/28/2016	0.0064 (J)	
2/9/2017	0.0078 (J)	
4/12/2017	0.0077 (J)	
6/16/2017	0.0072 (J)	
10/9/2017	0.0079 (J)	
3/21/2018	0.0055 (J)	
9/19/2018	0.0059 (J)	
3/23/2019		0.0058 (J)
9/18/2019		0.0063 (J)
3/13/2020		0.0054 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
11/2/2007	0.0071	
11/17/2007	0.012	
1/15/2008	0.043	
3/5/2008	0.0044	
5/7/2008	0.0084	
12/2/2008	0.0056	
4/16/2009	0.0042	
10/20/2009	0.0037	
4/20/2010	<0.01	
9/29/2010	0.0028	
4/12/2011	<0.01	
10/4/2011	0.0015	
4/4/2012	<0.01	
10/10/2012	0.0029	
4/15/2013	0.0036	
10/22/2013	0.0048	
4/21/2014	0.0043	
9/30/2014	0.0037	
4/3/2015	0.016	
10/7/2015	0.0092	
4/5/2016	0.019 (J)	
6/1/2016	0.006 (J)	
8/9/2016	0.0086 (JD)	
11/28/2016	<0.01	
2/9/2017	<0.01	
4/11/2017	<0.01	
6/14/2017	0.0006 (J)	
7/12/2017	0.0005 (J)	
10/5/2017	0.0006 (J)	
3/22/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.00046 (X)
3/13/2020		0.00093 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	0.061 (o)	
11/2/2007	0.078 (o)	
11/18/2007	0.085 (o)	
1/15/2008	0.079 (o)	
3/10/2008	0.062 (o)	
5/13/2008	0.044 (o)	
12/2/2008	0.027	
4/28/2009	0.016	
10/20/2009	0.018	
4/27/2010	0.012	
10/5/2010	0.0067	
4/19/2011	0.0081	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/10/2012	<0.01	
4/16/2013	0.0029	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/6/2015	<0.01	
4/5/2016	<0.01	
5/31/2016	<0.01	
11/23/2016	<0.01	
2/10/2017	<0.01	
4/11/2017	<0.01	
6/15/2017	0.0005 (J)	
7/12/2017	0.0008 (J)	
7/26/2017	0.0006 (J)	
10/6/2017	0.0008 (J)	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.00064 (X)
3/13/2020		0.0012 (J)

Prediction Limit

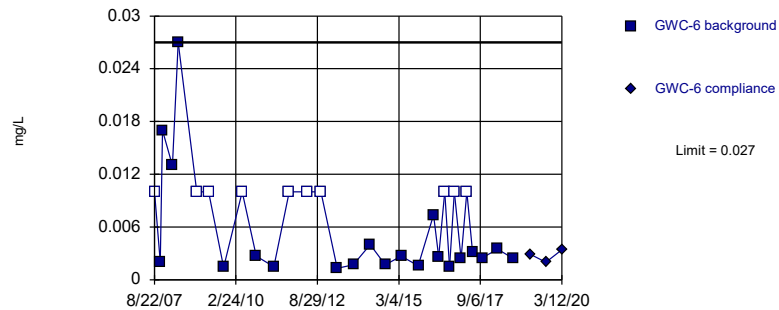
Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.0076	
10/25/2007	0.015	
11/19/2007	0.013	
1/23/2008	0.032	
3/11/2008	0.024	
5/12/2008	0.016	
12/11/2008	0.013	
4/15/2009	0.0073	
10/9/2009	0.0037	
5/4/2010	<0.01	
10/12/2010	0.0023	
4/28/2011	0.002	
10/19/2011	0.0015	
5/2/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	0.0015	
10/16/2013	<0.01	
4/23/2014	0.0013 (J)	
10/3/2014	<0.01	
3/31/2015	<0.01	
10/12/2015	<0.01	
3/28/2016	<0.01	
5/25/2016	<0.01	
8/1/2016	<0.01	
9/27/2016	<0.01	
11/11/2016	<0.01	
1/31/2017	<0.01	
4/3/2017	<0.01	
6/12/2017	0.0005 (J)	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/16/2019		<0.01
3/16/2020		0.00078 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

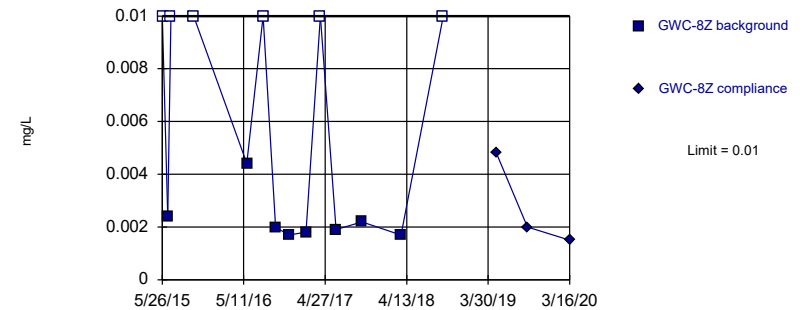


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 32.26% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

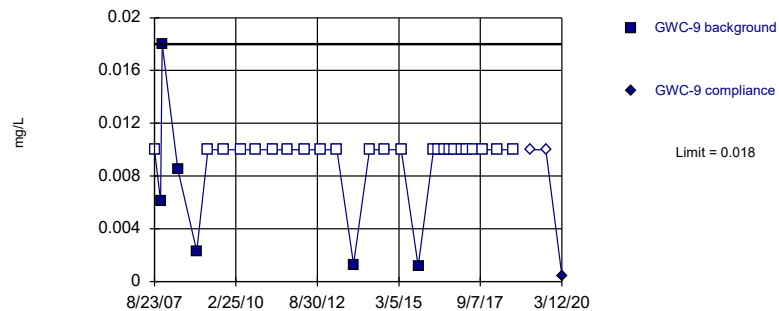


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

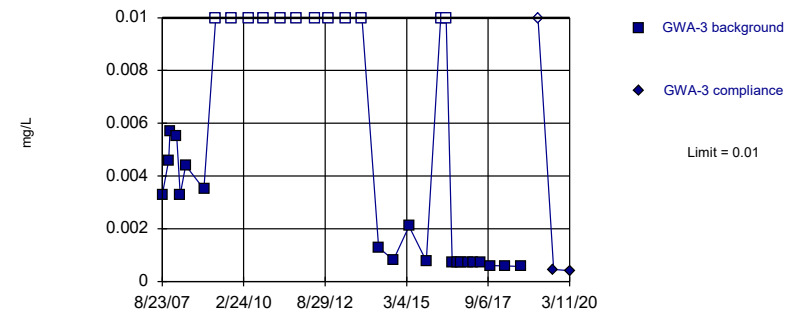


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.0003661. Individual comparison alpha = 0.0001831 (1 of 3).

Constituent: Chromium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.01	
10/25/2007	0.002	
11/20/2007	0.017	
1/23/2008	0.064 (o)	
3/11/2008	0.013	
5/14/2008	0.027	
12/11/2008	<0.01	
4/23/2009	<0.01	
10/9/2009	0.0014	
5/4/2010	<0.01	
10/11/2010	0.0027	
4/26/2011	0.0015	
10/18/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/10/2013	0.0013	
10/8/2013	0.0017	
4/14/2014	0.004	
10/3/2014	0.0017	
4/1/2015	0.0027	
10/9/2015	0.0016	
3/29/2016	0.00738 (J)	
5/24/2016	0.00263 (J)	
8/1/2016	<0.01	
9/26/2016	0.0014 (J)	
11/18/2016	<0.01	
2/1/2017	0.0024 (J)	
4/6/2017	<0.01	
6/13/2017	0.0031 (J)	
10/3/2017	0.0025 (J)	
3/19/2018	0.0035 (J)	
9/17/2018	0.0024 (J)	
3/21/2019		0.0029 (J)
9/16/2019		0.002 (J)
3/12/2020		0.0034 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.01	
6/18/2015	0.0024 (D)	
7/2/2015	<0.01	
10/8/2015	<0.01	
3/22/2016	0.048 (o)	
5/25/2016	0.00441 (J)	
8/2/2016	<0.01	
9/26/2016	0.002 (J)	
11/21/2016	0.0017 (J)	
2/3/2017	0.0018 (J)	
4/7/2017	<0.01	
6/13/2017	0.0019 (J)	
10/3/2017	0.0022 (J)	
3/20/2018	0.0017 (J)	
9/18/2018	<0.01	
5/6/2019		0.0048 (J)
9/16/2019		0.002 (J)
3/16/2020		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.01	
11/1/2007	0.0061	
11/19/2007	0.018 (J)	
1/15/2008	0.078 (o)	
3/6/2008	0.054 (o)	
5/13/2008	0.0085	
12/12/2008	0.0023	
4/16/2009	<0.01	
10/13/2009	<0.01	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/8/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	0.0013	
4/9/2014	<0.01	
9/30/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	0.00115 (D)	
3/30/2016	<0.01	
5/26/2016	<0.01	
8/5/2016	<0.01	
9/28/2016	<0.01	
11/21/2016	<0.01	
2/6/2017	<0.01	
4/6/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01 (D)	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		0.00045 (J)

Prediction Limit

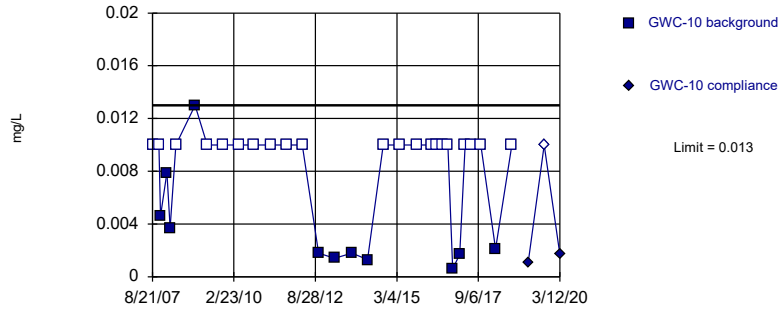
Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	0.0033	
11/2/2007	0.0046	
11/18/2007	0.0057	
1/31/2008	0.0055	
3/11/2008	0.0033	
5/14/2008	0.0044	
12/5/2008	0.0035	
4/15/2009	<0.01	
10/8/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/21/2011	<0.01	
10/13/2011	<0.01	
5/1/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/23/2014	0.0013 (J)	
10/4/2014	0.00081 (J)	
3/31/2015	0.0021	
10/12/2015	0.00078 (J)	
3/23/2016	<0.01	
5/23/2016	<0.01	
7/29/2016	0.0007 (J)	
9/22/2016	0.0007 (J)	
11/10/2016	0.0007 (J)	
1/31/2017	0.0007 (J)	
3/30/2017	0.0007 (J)	
6/12/2017	0.0007 (J)	
10/4/2017	0.0006 (J)	
3/19/2018	0.00059 (J)	
9/17/2018	0.00057 (J)	
3/20/2019		<0.01
9/13/2019		0.00046 (J)
3/11/2020		0.00041 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

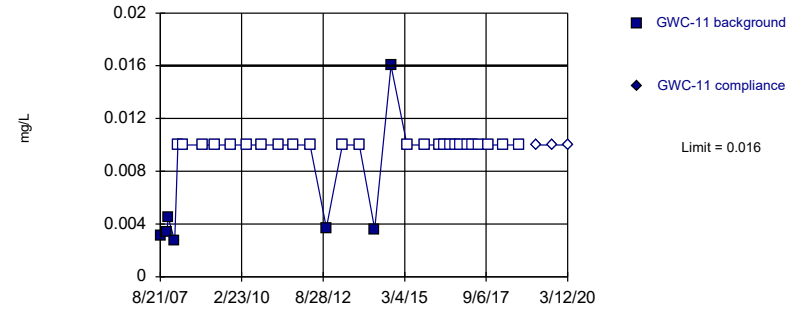


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 65.63% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

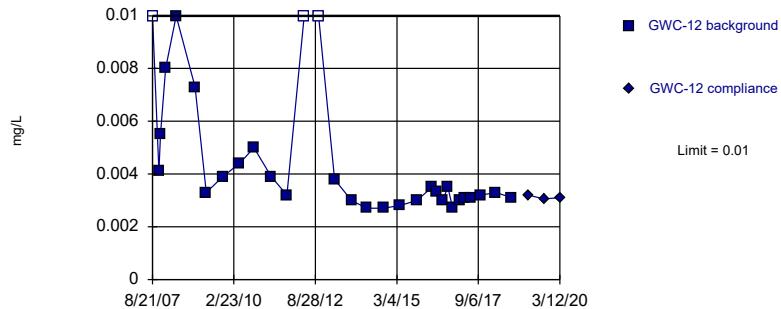


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

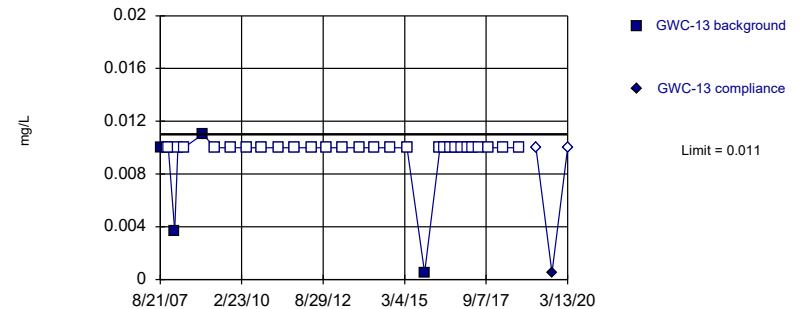


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 9.677% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	<0.01	
11/1/2007	<0.01	
11/20/2007	0.0046	
1/30/2008	0.0079	
3/6/2008	0.0037	
5/12/2008	<0.01	
12/13/2008	0.013	
4/29/2009	<0.01	
10/20/2009	<0.01	
4/26/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/3/2012	0.0018	
4/3/2013	0.0014	
10/15/2013	0.0018	
4/9/2014	0.0013 (J)	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	<0.01	
3/31/2016	<0.01	
5/26/2016	<0.01	
8/5/2016	<0.01	
9/28/2016	<0.01	
11/22/2016	0.0006 (J)	
2/7/2017	0.0017 (J)	
4/10/2017	<0.01	
6/14/2017	<0.01	
10/4/2017	<0.01	
3/20/2018	0.0021 (J)	
9/18/2018	<0.01	
3/22/2019		0.0011 (J)
9/17/2019		<0.01
3/12/2020		0.0017 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	0.0031	
11/1/2007	0.0034	
11/18/2007	0.0045	
1/30/2008	0.0027	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/14/2008	<0.01	
4/29/2009	<0.01	
10/22/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/3/2012	0.0037	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	0.0036	
10/2/2014	0.016	
4/1/2015	<0.01	
10/11/2015	<0.01	
4/4/2016	<0.01	
5/26/2016	<0.01	
8/3/2016	<0.01	
9/28/2016	<0.01	
11/22/2016	<0.01	
2/8/2017	<0.01	
4/10/2017	<0.01	
6/15/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.01	
11/1/2007	0.0041	
11/19/2007	0.0055	
1/16/2008	0.008	
3/5/2008	0.98 (o)	
5/13/2008	0.01	
12/13/2008	0.0073	
4/16/2009	0.0033	
10/21/2009	0.0039	
4/27/2010	0.0044	
10/5/2010	0.005	
4/19/2011	0.0039	
10/12/2011	0.0032	
4/24/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	0.0038	
10/9/2013	0.003	
4/1/2014	0.0027	
10/2/2014	0.0027	
4/1/2015	0.0028	
10/14/2015	0.003	
4/4/2016	0.00351 (J)	
5/27/2016	0.00332 (J)	
8/3/2016	0.003 (J)	
9/30/2016	0.0035 (J)	
11/22/2016	0.0027 (J)	
2/13/2017	0.003 (J)	
4/11/2017	0.0031 (J)	
6/14/2017	0.0031 (J)	
10/4/2017	0.0032 (J)	
3/22/2018	0.0033 (J)	
9/18/2018	0.0031 (J)	
3/23/2019		0.0032 (J)
9/17/2019		0.00305 (D)
3/12/2020		0.0031 (J)

Prediction Limit

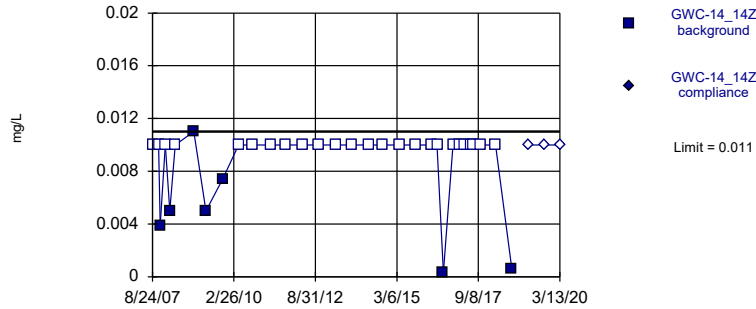
Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/31/2008	0.0037	
3/5/2008	<0.01	
5/12/2008	<0.01	
12/13/2008	0.011	
4/28/2009	<0.01	
10/21/2009	<0.01	
4/28/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	<0.01	
10/18/2011	<0.01	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
4/1/2015	<0.01	
10/15/2015	0.00051 (J)	
4/4/2016	<0.01	
5/31/2016	<0.01	
8/4/2016	<0.01	
9/29/2016	<0.01	
11/28/2016	<0.01	
2/9/2017	<0.01	
4/12/2017	<0.01	
6/16/2017	<0.01	
10/9/2017	<0.01	
3/21/2018	<0.01	
9/19/2018	<0.01	
3/23/2019		<0.01
9/18/2019		0.0005 (J)
3/13/2020		<0.01

Within Limit

Prediction Limit
 Intrawell Non-parametric

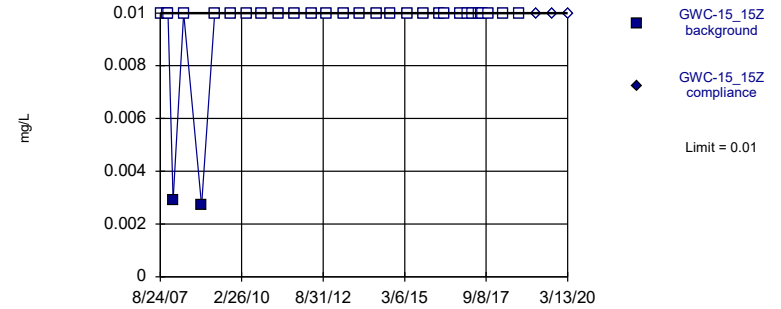


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

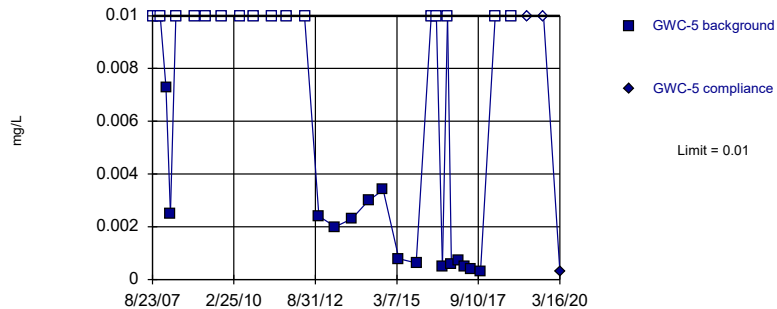


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

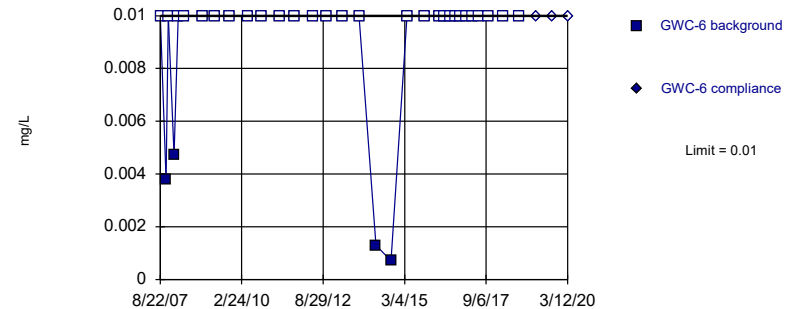


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	<0.01	
11/2/2007	<0.01	
11/17/2007	0.0039	
1/15/2008	<0.01	
3/5/2008	0.005	
5/7/2008	<0.01	
12/2/2008	0.011	
4/16/2009	0.005	
10/20/2009	0.0074	
4/20/2010	<0.01	
9/29/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
6/1/2016	<0.01	
8/9/2016	0.0003 (J)	
11/28/2016	<0.01	
2/9/2017	<0.01	
4/11/2017	<0.01	
6/14/2017	<0.01	
7/12/2017	<0.01	
10/5/2017	<0.01	
3/22/2018	<0.01	
9/19/2018	0.00058 (J)	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	<0.01	
11/2/2007	<0.01	
11/18/2007	<0.01	
1/15/2008	0.0029	
3/10/2008	0.069 (o)	
5/13/2008	<0.01	
12/2/2008	0.0027	
4/28/2009	<0.01	
10/20/2009	<0.01	
4/27/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/10/2012	<0.01	
4/16/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/6/2015	<0.01	
4/5/2016	<0.01	
5/31/2016	<0.01	
11/23/2016	<0.01	
2/10/2017	<0.01	
4/11/2017	<0.01	
6/15/2017	<0.01	
7/12/2017	<0.01	
7/26/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.01	
10/25/2007	<0.01	
11/19/2007	<0.01	
1/23/2008	0.0073	
3/11/2008	0.0025	
5/12/2008	<0.01	
12/11/2008	<0.01	
4/15/2009	<0.01	
10/9/2009	<0.01	
5/4/2010	<0.01	
10/12/2010	<0.01	
4/28/2011	<0.01	
10/19/2011	<0.01	
5/2/2012	<0.01	
10/9/2012	0.0024	
4/11/2013	0.002	
10/16/2013	0.0023	
4/23/2014	0.003	
10/3/2014	0.0034	
3/31/2015	0.00079 (J)	
10/12/2015	0.00063 (J)	
3/28/2016	<0.01	
5/25/2016	<0.01	
8/1/2016	0.0005 (J)	
9/27/2016	<0.01	
11/11/2016	0.0006 (J)	
1/31/2017	0.0007 (J)	
4/3/2017	0.0005 (J)	
6/12/2017	0.0004 (J)	
10/3/2017	0.0003 (J)	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/16/2019		<0.01
3/16/2020		0.00031 (J)

Prediction Limit

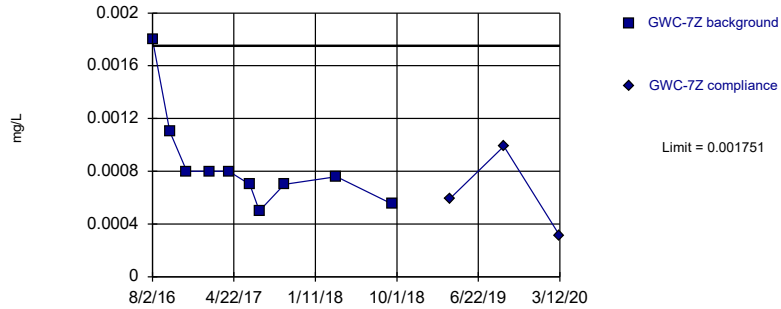
Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.01	
10/25/2007	0.0038	
11/20/2007	<0.01	
1/23/2008	0.0047	
3/11/2008	<0.01	
5/14/2008	<0.01	
12/11/2008	<0.01	
4/23/2009	<0.01	
10/9/2009	<0.01	
5/4/2010	<0.01	
10/11/2010	<0.01	
4/26/2011	<0.01	
10/18/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/10/2013	<0.01	
10/8/2013	<0.01	
4/14/2014	0.0013 (J)	
10/3/2014	0.00071 (J)	
4/1/2015	<0.01	
10/9/2015	<0.01	
3/29/2016	<0.01	
5/24/2016	<0.01	
8/1/2016	<0.01	
9/26/2016	<0.01	
11/18/2016	<0.01	
2/1/2017	<0.01	
4/6/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01

Within Limit

Prediction Limit
Intrawell Parametric

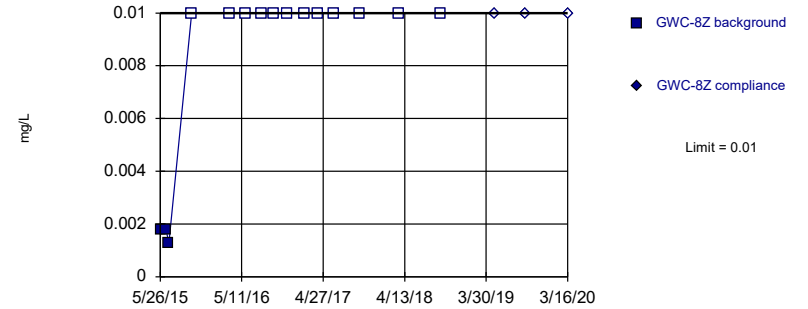


Background Data Summary (based on square root transformation): Mean=0.02867, Std. Dev.=0.005656, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8189, critical = 0.781. Kappa = 2.329 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

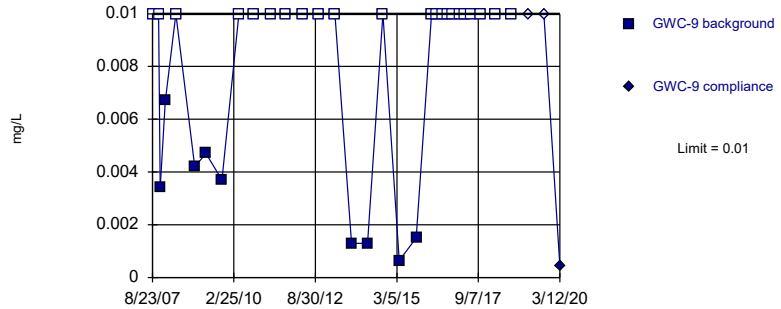


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

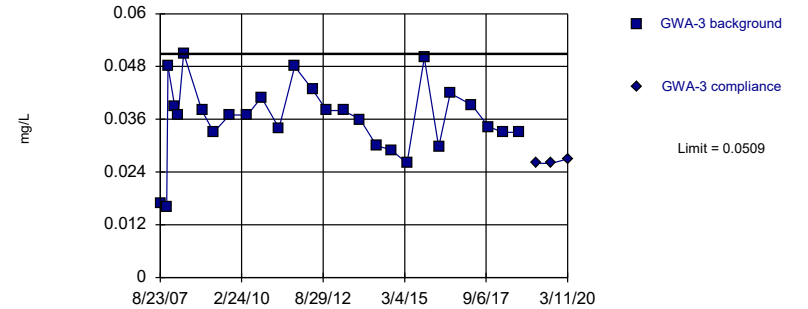


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 70.97% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.03618, Std. Dev.=0.008473, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.01 (o)	
8/2/2016	0.0018 (J)	
9/27/2016	0.0011 (J)	
11/21/2016	0.0008 (J)	
2/1/2017	0.0008 (J)	
4/6/2017	0.0008 (J)	
6/13/2017	0.0007 (J)	
7/14/2017	0.0005 (J)	
10/3/2017	0.0007 (J)	
3/20/2018	0.00076 (J)	
9/18/2018	0.00055 (J)	
3/21/2019		0.00059 (J)
9/13/2019		0.00099 (J)
3/12/2020		0.00031 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	0.0018	
6/18/2015	0.0018 (D)	
7/2/2015	0.0013	
10/8/2015	<0.01	
3/22/2016	<0.01	
5/25/2016	<0.01	
8/2/2016	<0.01	
9/26/2016	<0.01	
11/21/2016	<0.01	
2/3/2017	<0.01	
4/7/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01	
5/6/2019		<0.01
9/16/2019		<0.01
3/16/2020		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	0.0034	
1/15/2008	0.0067	
3/6/2008	0.13 (o)	
5/13/2008	<0.01	
12/12/2008	0.0042	
4/16/2009	0.0047	
10/13/2009	0.0037	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/8/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	0.0013	
4/9/2014	0.0013 (J)	
9/30/2014	<0.01	
4/2/2015	0.00064 (J)	
10/10/2015	0.0015 (D)	
3/30/2016	<0.01	
5/26/2016	<0.01	
8/5/2016	<0.01	
9/28/2016	<0.01	
11/21/2016	<0.01	
2/6/2017	<0.01	
4/6/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01 (D)	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		0.00044 (J)

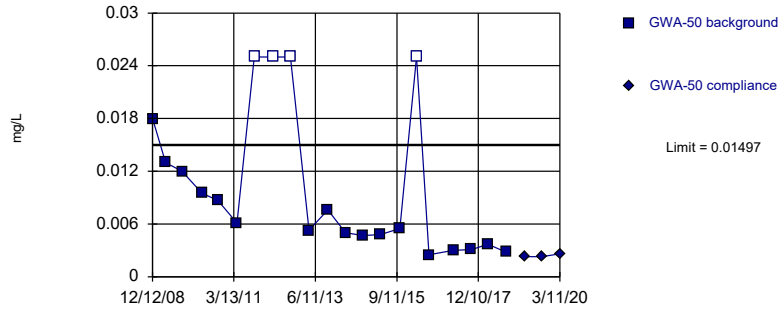
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	0.017	
11/2/2007	0.016	
11/18/2007	0.048	
1/31/2008	0.039	
3/11/2008	0.037	
5/14/2008	0.051	
12/5/2008	0.038	
4/15/2009	0.033	
10/8/2009	0.037	
4/28/2010	0.037	
10/6/2010	0.041	
4/21/2011	0.034	
10/13/2011	0.048	
5/1/2012	0.0427	
10/9/2012	0.038	
4/11/2013	0.038	
10/16/2013	0.036	
4/23/2014	0.03	
10/4/2014	0.029	
3/31/2015	0.026	
10/12/2015	0.05	
3/23/2016	0.0297	
7/29/2016	0.0419	
3/30/2017	0.0392	
10/4/2017	0.0343	
3/19/2018	0.033	
9/17/2018	0.033	
3/20/2019		0.026
9/13/2019		0.026
3/11/2020		0.027

Within Limit

Prediction Limit
Intrawell Parametric

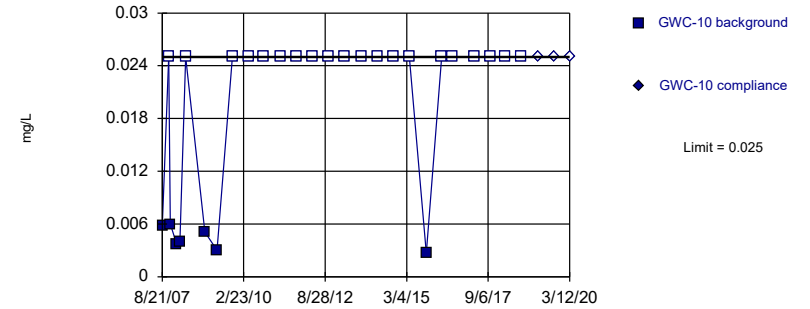


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1825, Std. Dev.=0.03515, n=21, 19.05% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.883, critical = 0.873. Kappa = 1.82 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

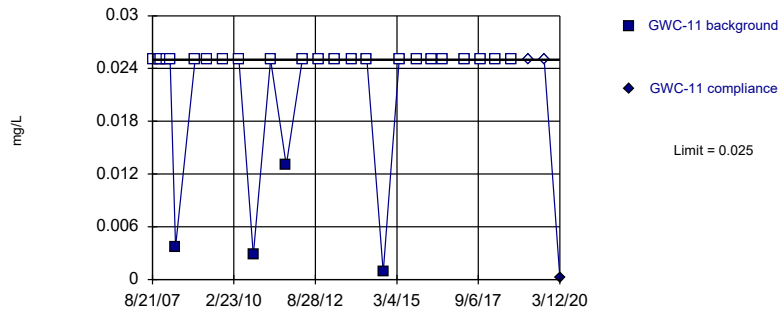


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

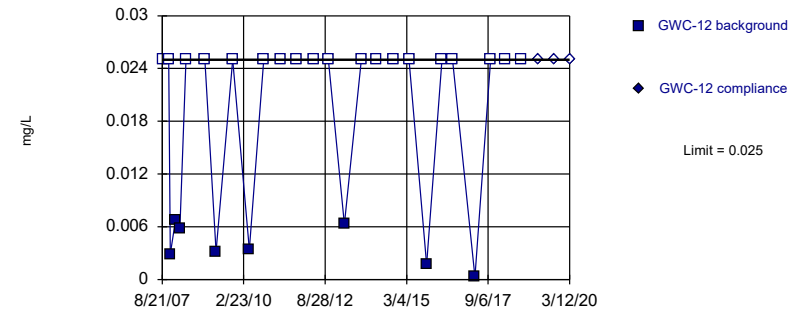


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	0.018	
4/23/2009	0.013	
10/6/2009	0.012	
4/27/2010	0.0095	
9/30/2010	0.0087	
4/14/2011	0.0061	
10/5/2011	<0.025	
4/11/2012	<0.025	
10/2/2012	<0.025	
4/9/2013	0.0053	
10/15/2013	0.0076	
4/10/2014	0.005	
10/1/2014	0.0047 (J)	
3/30/2015	0.0048 (J)	
10/11/2015	0.0055	
3/28/2016	<0.025	
8/1/2016	0.0025 (J)	
4/7/2017	0.003 (J)	
10/2/2017	0.0031 (J)	
3/16/2018	0.0037 (J)	
9/17/2018	0.0028 (J)	
3/19/2019		0.0023 (J)
9/13/2019		0.0023 (J)
3/11/2020		0.0026 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	0.0058	
11/1/2007	<0.025	
11/20/2007	0.006	
1/30/2008	0.0037	
3/6/2008	0.004	
5/12/2008	<0.025	
12/13/2008	0.0051	
4/29/2009	0.003	
10/20/2009	<0.025	
4/26/2010	<0.025	
9/29/2010	<0.025	
4/13/2011	<0.025	
10/5/2011	<0.025	
4/4/2012	<0.025	
10/3/2012	<0.025	
4/3/2013	<0.025	
10/15/2013	<0.025	
4/9/2014	<0.025	
10/2/2014	<0.025	
4/2/2015	<0.025	
10/10/2015	0.0027 (J)	
3/31/2016	<0.025	
8/5/2016	<0.025	
4/10/2017	<0.025	
10/4/2017	<0.025	
3/20/2018	<0.025	
9/18/2018	<0.025	
3/22/2019		<0.025
9/17/2019		<0.025
3/12/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.025	
11/1/2007	<0.025	
11/18/2007	<0.025	
1/30/2008	<0.025	
3/5/2008	<0.025	
5/7/2008	0.0037	
12/14/2008	<0.025	
4/29/2009	<0.025	
10/22/2009	<0.025	
4/21/2010	<0.025	
9/28/2010	0.0028	
4/12/2011	<0.025	
10/4/2011	0.013	
4/3/2012	<0.025	
10/3/2012	<0.025	
4/3/2013	<0.025	
10/9/2013	<0.025	
4/2/2014	<0.025	
10/2/2014	0.00084 (J)	
4/1/2015	<0.025	
10/11/2015	<0.025	
4/4/2016	<0.025	
8/3/2016	<0.025	
4/10/2017	<0.025	
10/4/2017	<0.025	
3/21/2018	<0.025	
9/18/2018	<0.025	
3/23/2019		<0.025
9/17/2019		<0.025
3/12/2020		0.00023 (J)

Prediction Limit

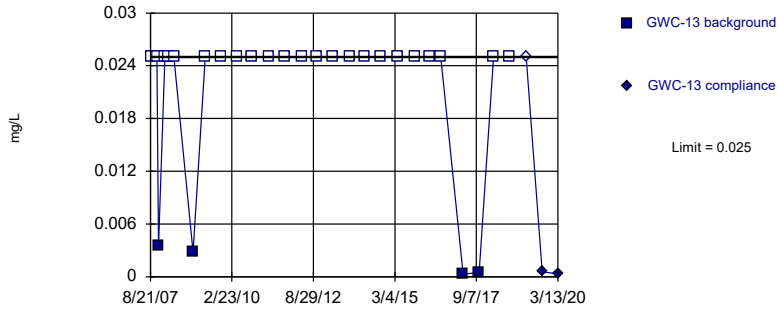
Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.025	
11/1/2007	<0.025	
11/19/2007	0.0029	
1/16/2008	0.0067	
3/5/2008	0.0058	
5/13/2008	<0.025	
12/13/2008	<0.025	
4/16/2009	0.0032	
10/21/2009	<0.025	
4/27/2010	0.0034	
10/5/2010	<0.025	
4/19/2011	<0.025	
10/12/2011	<0.025	
4/24/2012	<0.025	
10/2/2012	<0.025	
4/2/2013	0.0063	
10/9/2013	<0.025	
4/1/2014	<0.025	
10/2/2014	<0.025	
4/1/2015	<0.025	
10/14/2015	0.0017 (J)	
4/4/2016	<0.025	
8/3/2016	<0.025	
4/11/2017	0.0003 (J)	
10/4/2017	<0.025	
3/22/2018	<0.025	
9/18/2018	<0.025	
3/23/2019		<0.025
9/17/2019		<0.025 (D)
3/12/2020		<0.025

Within Limit

Prediction Limit
Intrawell Non-parametric

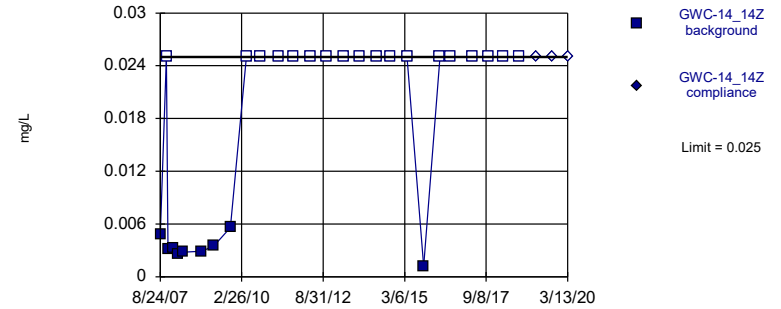


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

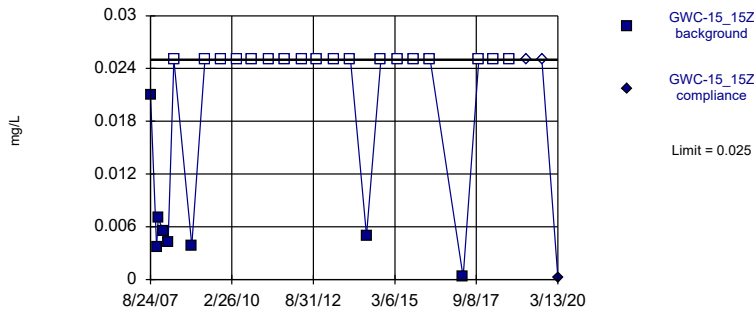


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

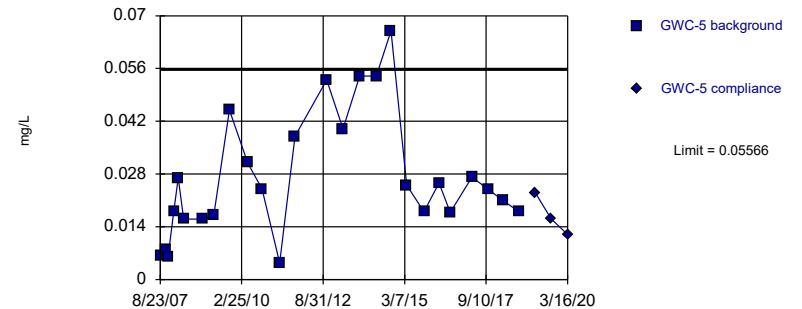


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02693, Std. Dev.=0.01643, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.891. Kappa = 1.748 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.025	
11/1/2007	<0.025	
11/19/2007	0.0035	
1/31/2008	<0.025	
3/5/2008	<0.025	
5/12/2008	<0.025	
12/13/2008	0.0028	
4/28/2009	<0.025	
10/21/2009	<0.025	
4/28/2010	<0.025	
10/5/2010	<0.025	
4/19/2011	<0.025	
10/18/2011	<0.025	
4/25/2012	<0.025	
10/2/2012	<0.025	
4/2/2013	<0.025	
10/8/2013	<0.025	
4/1/2014	<0.025	
10/1/2014	<0.025	
4/1/2015	<0.025	
10/15/2015	<0.025	
4/4/2016	<0.025	
8/4/2016	<0.025	
4/12/2017	0.0003 (J)	
10/9/2017	0.0005 (J)	
3/21/2018	<0.025	
9/19/2018	<0.025	
3/23/2019		<0.025
9/18/2019		0.00057 (J)
3/13/2020		0.00033 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	0.0048 (J)	
11/2/2007	<0.025	
11/17/2007	0.0031	
1/15/2008	0.0033	
3/5/2008	0.0026	
5/7/2008	0.0028	
12/2/2008	0.0029	
4/16/2009	0.0035	
10/20/2009	0.0056	
4/20/2010	<0.025	
9/29/2010	<0.025	
4/12/2011	<0.025	
10/4/2011	<0.025	
4/4/2012	<0.025	
10/10/2012	<0.025	
4/15/2013	<0.025	
10/22/2013	<0.025	
4/21/2014	<0.025	
9/30/2014	<0.025	
4/3/2015	<0.025	
10/7/2015	0.0012 (J)	
4/5/2016	<0.025	
8/9/2016	<0.025	
4/11/2017	<0.025	
10/5/2017	<0.025	
3/22/2018	<0.025	
9/19/2018	<0.025	
3/22/2019		<0.025
9/17/2019		<0.025
3/13/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	0.021	
11/2/2007	0.0037	
11/18/2007	0.007 (J)	
1/15/2008	0.0055	
3/10/2008	0.0042	
5/13/2008	<0.025	
12/2/2008	0.0039	
4/28/2009	<0.025	
10/20/2009	<0.025	
4/27/2010	<0.025	
10/5/2010	<0.025	
4/19/2011	<0.025	
10/12/2011	<0.025	
4/25/2012	<0.025	
10/10/2012	<0.025	
4/16/2013	<0.025	
10/22/2013	<0.025	
4/21/2014	0.005 (J)	
9/30/2014	<0.025	
4/3/2015	<0.025	
10/6/2015	<0.025	
4/5/2016	<0.025	
4/11/2017	0.0003 (J)	
10/6/2017	<0.025	
3/23/2018	<0.025	
9/19/2018	<0.025	
3/22/2019		<0.025
9/17/2019		<0.025
3/13/2020		0.0002 (J)

Prediction Limit

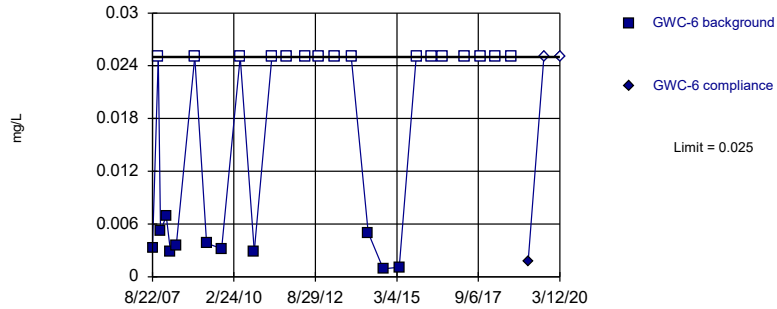
Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.0064	
10/25/2007	0.0081	
11/19/2007	0.0059	
1/23/2008	0.018	
3/11/2008	0.027	
5/12/2008	0.016	
12/11/2008	0.016	
4/15/2009	0.017	
10/9/2009	0.045	
5/4/2010	0.031	
10/12/2010	0.024	
4/28/2011	0.0044	
10/19/2011	0.038	
5/2/2012	0.0865 (O)	
10/9/2012	0.053	
4/11/2013	0.04	
10/16/2013	0.054	
4/23/2014	0.054	
10/3/2014	0.066	
3/31/2015	0.025	
10/12/2015	0.018	
3/28/2016	0.0256	
8/1/2016	0.0178 (J)	
4/3/2017	0.0272	
10/3/2017	0.0239 (J)	
3/19/2018	0.021 (J)	
9/17/2018	0.018 (J)	
3/20/2019		0.023 (J)
9/16/2019		0.016 (J)
3/16/2020		0.012 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

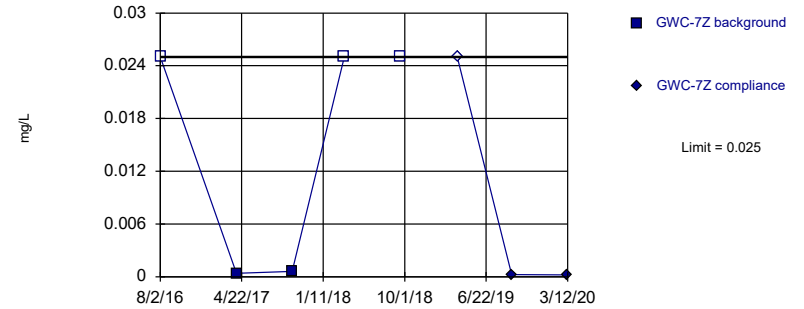


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

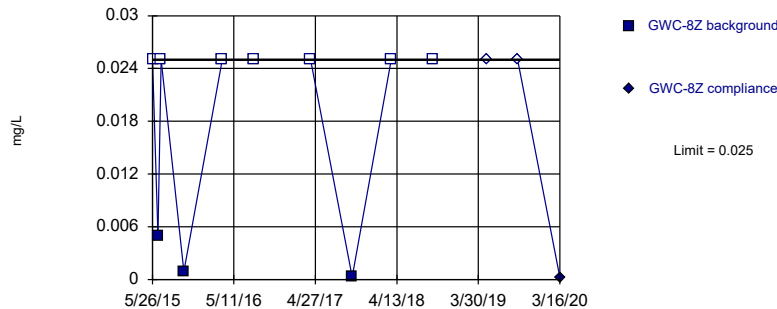


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

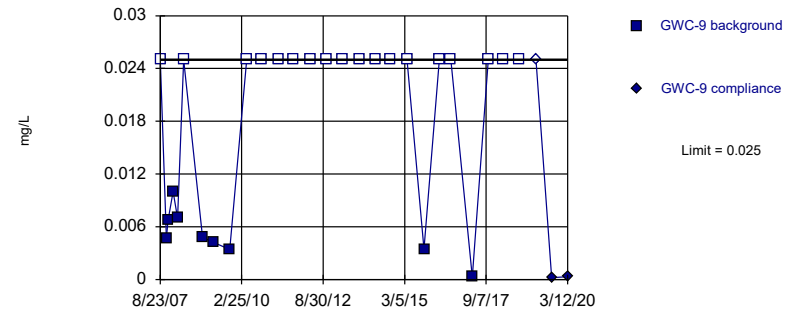


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	0.0033	
10/25/2007	<0.025	
11/20/2007	0.0052	
1/23/2008	0.0069	
3/11/2008	0.0029	
5/14/2008	0.0035	
12/11/2008	<0.025	
4/23/2009	0.0038	
10/9/2009	0.0032	
5/4/2010	<0.025	
10/11/2010	0.0029	
4/26/2011	<0.025	
10/18/2011	<0.025	
5/2/2012	<0.025	
10/8/2012	<0.025	
4/10/2013	<0.025	
10/8/2013	<0.025	
4/14/2014	0.005 (J)	
10/3/2014	0.00091 (J)	
4/1/2015	0.0011 (J)	
10/9/2015	<0.025	
3/29/2016	<0.025	
8/1/2016	<0.025	
4/6/2017	<0.025	
10/3/2017	<0.025	
3/19/2018	<0.025	
9/17/2018	<0.025	
3/21/2019		0.0018 (J)
9/16/2019		<0.025
3/12/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
8/2/2016	<0.025	
4/6/2017	0.0004 (J)	
10/3/2017	0.0006 (J)	
3/20/2018	<0.025	
9/18/2018	<0.025	
3/21/2019		<0.025
9/13/2019		0.00025 (J)
3/12/2020		0.00021 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.025	
6/18/2015	0.005 (D)	
7/2/2015	<0.025	
10/8/2015	0.00091 (J)	
3/22/2016	<0.025	
8/2/2016	<0.025	
4/7/2017	<0.025	
10/3/2017	0.0003 (J)	
3/20/2018	<0.025	
9/18/2018	<0.025	
5/6/2019		<0.025
9/16/2019		<0.025
3/16/2020		0.00024 (J)

Prediction Limit

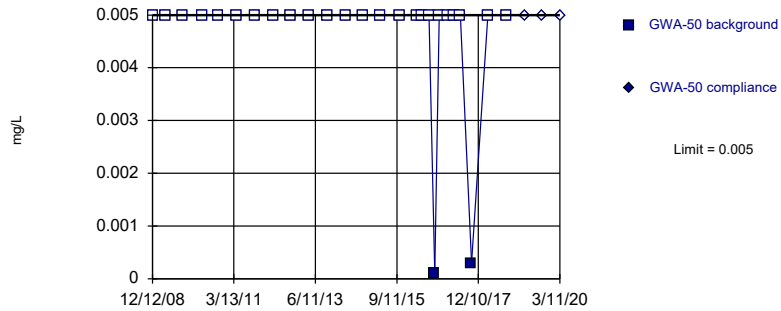
Constituent: Copper (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.025	
11/1/2007	0.0047	
11/19/2007	0.0067 (J)	
1/15/2008	0.01	
3/6/2008	0.007	
5/13/2008	<0.025	
12/12/2008	0.0048	
4/16/2009	0.0042	
10/13/2009	0.0034	
4/21/2010	<0.025	
9/29/2010	<0.025	
4/13/2011	<0.025	
10/5/2011	<0.025	
4/4/2012	<0.025	
10/8/2012	<0.025	
4/8/2013	<0.025	
10/9/2013	<0.025	
4/9/2014	<0.025	
9/30/2014	<0.025	
4/2/2015	<0.025	
10/10/2015	0.00345 (D)	
3/30/2016	<0.025	
8/5/2016	<0.025	
4/6/2017	0.0003 (J)	
10/3/2017	<0.025	
3/20/2018	<0.025	
9/18/2018	<0.025 (D)	
3/21/2019		<0.025
9/16/2019		0.00021 (J)
3/12/2020		0.00031 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

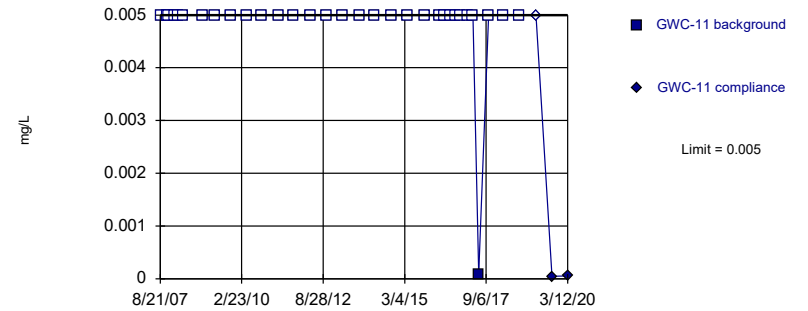


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

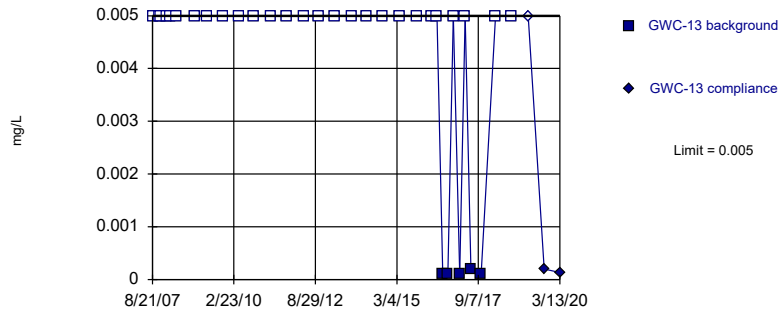


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

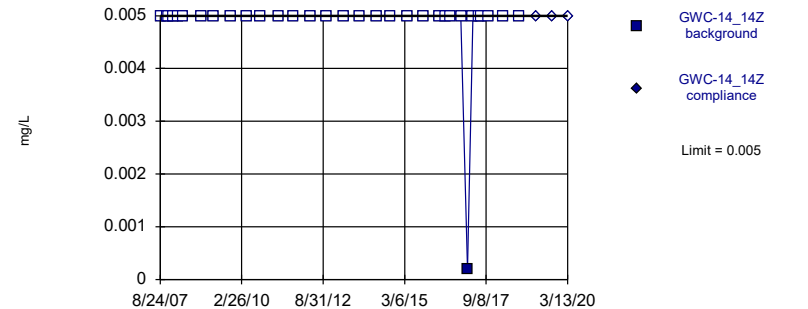


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.005	
4/23/2009	<0.005	
10/6/2009	<0.005	
4/27/2010	<0.005	
9/30/2010	<0.005	
4/14/2011	<0.005	
10/5/2011	<0.005	
4/11/2012	<0.005	
10/2/2012	<0.005	
4/9/2013	<0.005	
10/15/2013	<0.005	
4/10/2014	<0.005	
10/1/2014	<0.005	
3/30/2015	<0.005	
10/11/2015	<0.005	
3/28/2016	<0.005	
5/23/2016	<0.005	
8/1/2016	<0.005	
9/26/2016	0.0001 (J)	
11/10/2016	<0.005	
1/30/2017	<0.005	
4/7/2017	<0.005	
6/12/2017	<0.005	
10/2/2017	0.0003 (J)	
3/16/2018	<0.005	
9/17/2018	<0.005	
3/19/2019		<0.005
9/13/2019		<0.005
3/11/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.005	
11/1/2007	<0.005	
11/18/2007	<0.005	
1/30/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/14/2008	<0.005	
4/29/2009	<0.005	
10/22/2009	<0.005	
4/21/2010	<0.005	
9/28/2010	<0.005	
4/12/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
10/3/2012	<0.005	
4/3/2013	<0.005	
10/9/2013	<0.005	
4/2/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	<0.005	
10/11/2015	<0.005	
4/4/2016	<0.005	
5/26/2016	<0.005	
8/3/2016	<0.005	
9/28/2016	<0.005	
11/22/2016	<0.005	
2/8/2017	<0.005	
4/10/2017	<0.005	
6/15/2017	9E-05 (J)	
10/4/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		4.6E-05 (J)
3/12/2020		5.2E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/12/2008	<0.005	
12/13/2008	<0.005	
4/28/2009	<0.005	
10/21/2009	<0.005	
4/28/2010	<0.005	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/18/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/8/2013	<0.005	
4/1/2014	<0.005	
10/1/2014	<0.005	
4/1/2015	<0.005	
10/15/2015	<0.005	
4/4/2016	<0.005	
5/31/2016	<0.005	
8/4/2016	0.0001 (J)	
9/29/2016	0.0001 (J)	
11/28/2016	<0.005	
2/9/2017	0.0001 (J)	
4/12/2017	<0.005	
6/16/2017	0.0002 (J)	
10/9/2017	0.0001 (J)	
3/21/2018	<0.005	
9/19/2018	<0.005	
3/23/2019		<0.005
9/18/2019		0.0002 (J)
3/13/2020		0.00013 (J)

Prediction Limit

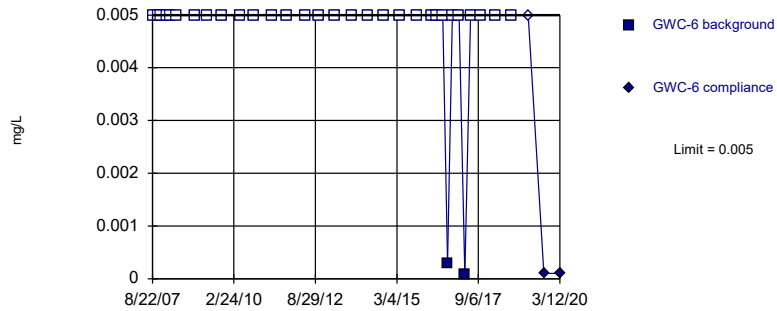
Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	<0.005	
11/2/2007	<0.005	
11/17/2007	<0.005	
1/15/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/2/2008	<0.005	
4/16/2009	<0.005	
10/20/2009	<0.005	
4/20/2010	<0.005	
9/29/2010	<0.005	
4/12/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
10/10/2012	<0.005	
4/15/2013	<0.005	
10/22/2013	<0.005	
4/21/2014	<0.005	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/7/2015	<0.005	
4/5/2016	<0.005	
6/1/2016	<0.005	
8/9/2016	<0.005	
11/28/2016	<0.005	
2/9/2017	0.0002 (J)	
4/11/2017	<0.005	
6/14/2017	<0.005	
7/12/2017	<0.005	
10/5/2017	<0.005	
3/22/2018	<0.005	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

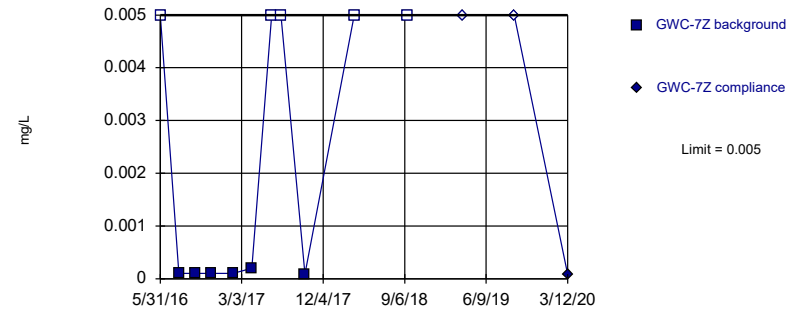


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

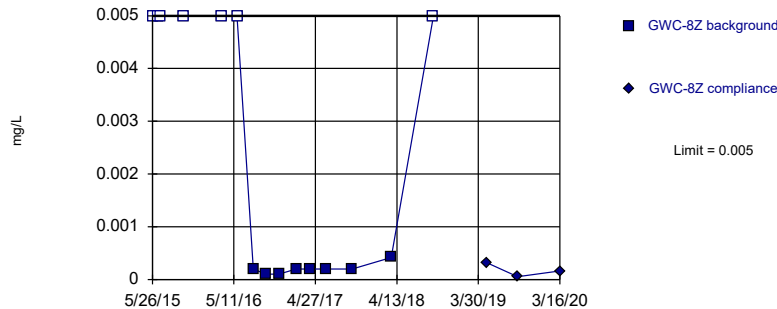


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

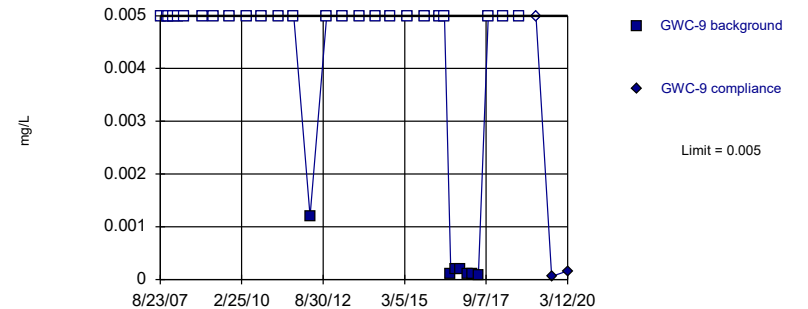


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.005	
10/25/2007	<0.005	
11/20/2007	<0.005	
1/23/2008	<0.005	
3/11/2008	<0.005	
5/14/2008	<0.005	
12/11/2008	<0.005	
4/23/2009	<0.005	
10/9/2009	<0.005	
5/4/2010	<0.005	
10/11/2010	<0.005	
4/26/2011	<0.005	
10/18/2011	<0.005	
5/2/2012	<0.005	
10/8/2012	<0.005	
4/10/2013	<0.005	
10/8/2013	<0.005	
4/14/2014	<0.005	
10/3/2014	<0.005	
4/1/2015	<0.005	
10/9/2015	<0.005	
3/29/2016	<0.005	
5/24/2016	<0.005	
8/1/2016	<0.005	
9/26/2016	0.0003 (J)	
11/18/2016	<0.005	
2/1/2017	<0.005	
4/6/2017	7E-05 (J)	
6/13/2017	<0.005	
10/3/2017	<0.005	
3/19/2018	<0.005	
9/17/2018	<0.005	
3/21/2019		<0.005
9/16/2019		0.0001 (J)
3/12/2020		0.0001 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.005	
8/2/2016	0.0001 (J)	
9/27/2016	0.0001 (J)	
11/21/2016	0.0001 (J)	
2/1/2017	0.0001 (J)	
4/6/2017	0.0002 (J)	
6/13/2017	<0.005	
7/14/2017	<0.005	
10/3/2017	9E-05 (J)	
3/20/2018	<0.005	
9/18/2018	<0.005	
3/21/2019		<0.005
9/13/2019		<0.005
3/12/2020		8.2E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.005	
6/18/2015	<0.005 (D)	
7/2/2015	<0.005	
10/8/2015	<0.005	
3/22/2016	<0.005	
5/25/2016	<0.005	
8/2/2016	0.0002 (J)	
9/26/2016	0.0001 (J)	
11/21/2016	0.0001 (J)	
2/3/2017	0.0002 (J)	
4/7/2017	0.0002 (J)	
6/13/2017	0.0002 (J)	
10/3/2017	0.0002 (J)	
3/20/2018	0.00042 (J)	
9/18/2018	<0.005	
5/6/2019		0.00032 (J)
9/16/2019		5.4E-05 (J)
3/16/2020		0.00016 (J)

Prediction Limit

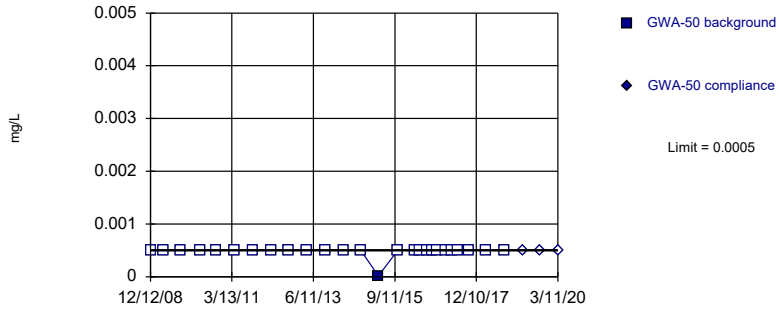
Constituent: Lead (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/15/2008	<0.005	
3/6/2008	<0.005	
5/13/2008	<0.005	
12/12/2008	<0.005	
4/16/2009	<0.005	
10/13/2009	<0.005	
4/21/2010	<0.005	
9/29/2010	<0.005	
4/13/2011	<0.005	
10/5/2011	<0.005	
4/4/2012	0.0012	
10/8/2012	<0.005	
4/8/2013	<0.005	
10/9/2013	<0.005	
4/9/2014	<0.005	
9/30/2014	<0.005	
4/2/2015	<0.005	
10/10/2015	<0.005 (D)	
3/30/2016	<0.005	
5/26/2016	<0.005	
8/5/2016	0.0001 (J)	
9/28/2016	0.0002 (J)	
11/21/2016	0.0002 (J)	
2/6/2017	0.0001 (J)	
4/6/2017	0.0001 (J)	
6/13/2017	8E-05 (J)	
10/3/2017	<0.005	
3/20/2018	<0.005	
9/18/2018	<0.005 (D)	
3/21/2019		<0.005
9/16/2019		6.1E-05 (J)
3/12/2020		0.00016 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

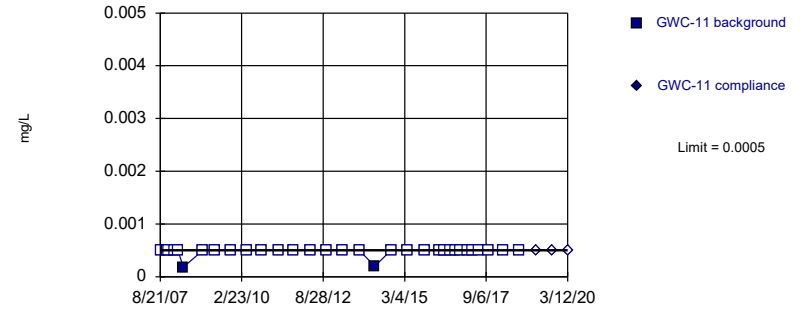


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

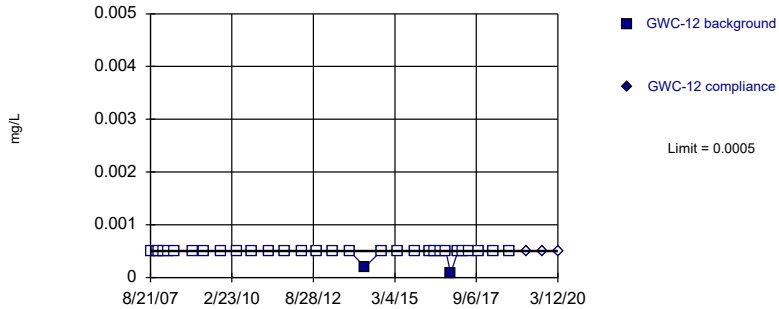


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

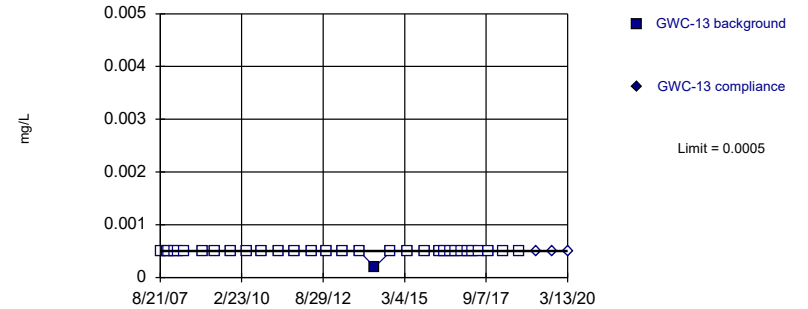


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.0005	
4/23/2009	<0.0005	
10/6/2009	<0.0005	
4/27/2010	<0.0005	
9/30/2010	<0.0005	
4/14/2011	<0.0005	
10/5/2011	<0.0005	
4/11/2012	<0.0005	
10/2/2012	<0.0005	
4/9/2013	<0.0005	
10/15/2013	<0.0005	
4/10/2014	<0.0005	
10/1/2014	<0.0005	
3/30/2015	2.02E-05 (J)	
10/11/2015	<0.0005	
3/28/2016	<0.0005	
5/23/2016	<0.0005	
8/1/2016	<0.0005	
9/26/2016	<0.0005	
11/10/2016	<0.0005	
1/30/2017	<0.0005	
4/7/2017	<0.0005	
6/12/2017	<0.0005	
10/2/2017	<0.0005	
3/16/2018	<0.0005	
9/17/2018	<0.0005	
3/19/2019		<0.0005
9/13/2019		<0.0005
3/11/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.0005	
11/1/2007	<0.0005	
11/18/2007	<0.0005	
1/30/2008	<0.0005	
3/5/2008	<0.0005	
5/7/2008	0.000181	
12/14/2008	<0.0005	
4/29/2009	<0.0005	
10/22/2009	<0.0005	
4/21/2010	<0.0005	
9/28/2010	<0.0005	
4/12/2011	<0.0005	
10/4/2011	<0.0005	
4/3/2012	<0.0005	
10/3/2012	<0.0005	
4/3/2013	<0.0005	
10/9/2013	<0.0005	
4/2/2014	0.0002 (J)	
10/2/2014	<0.0005	
4/1/2015	<0.0005	
10/11/2015	<0.0005	
4/4/2016	<0.0005	
5/26/2016	<0.0005	
8/3/2016	<0.0005	
9/28/2016	<0.0005	
11/22/2016	<0.0005	
2/8/2017	<0.0005	
4/10/2017	<0.0005	
6/15/2017	<0.0005	
10/4/2017	<0.0005	
3/21/2018	<0.0005	
9/18/2018	<0.0005	
3/23/2019		<0.0005
9/17/2019		<0.0005
3/12/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.0005	
11/1/2007	<0.0005	
11/19/2007	<0.0005	
1/16/2008	<0.0005	
3/5/2008	<0.0005	
5/13/2008	<0.0005	
12/13/2008	<0.0005	
4/16/2009	<0.0005	
10/21/2009	<0.0005	
4/27/2010	<0.0005	
10/5/2010	<0.0005	
4/19/2011	<0.0005	
10/12/2011	<0.0005	
4/24/2012	<0.0005	
10/2/2012	<0.0005	
4/2/2013	<0.0005	
10/9/2013	<0.0005	
4/1/2014	0.0002 (J)	
10/2/2014	<0.0005	
4/1/2015	<0.0005	
10/14/2015	<0.0005	
4/4/2016	<0.0005	
5/27/2016	<0.0005	
8/3/2016	<0.0005	
9/30/2016	<0.0005	
11/22/2016	8E-05 (J)	
2/13/2017	<0.0005	
4/11/2017	<0.0005	
6/14/2017	<0.0005	
10/4/2017	<0.0005	
3/22/2018	<0.0005	
9/18/2018	<0.0005	
3/23/2019		<0.0005
9/17/2019		<0.0005 (D)
3/12/2020		<0.0005

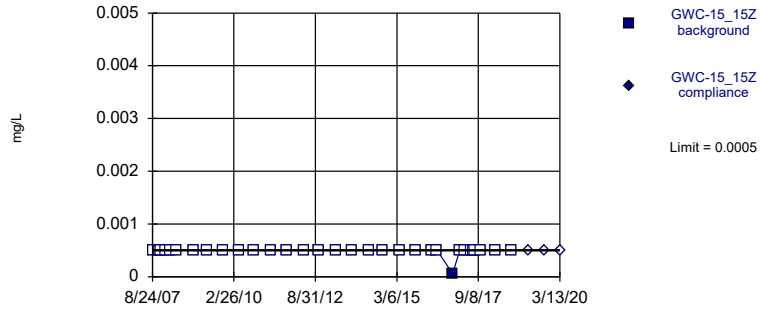
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.0005	
11/1/2007	<0.0005	
11/19/2007	<0.0005	
1/31/2008	<0.0005	
3/5/2008	<0.0005	
5/12/2008	<0.0005	
12/13/2008	<0.0005	
4/28/2009	<0.0005	
10/21/2009	<0.0005	
4/28/2010	<0.0005	
10/5/2010	<0.0005	
4/19/2011	<0.0005	
10/18/2011	<0.0005	
4/25/2012	<0.0005	
10/2/2012	<0.0005	
4/2/2013	<0.0005	
10/8/2013	<0.0005	
4/1/2014	0.0002 (J)	
10/1/2014	<0.0005	
4/1/2015	<0.0005	
10/15/2015	<0.0005	
4/4/2016	<0.0005	
5/31/2016	<0.0005	
8/4/2016	<0.0005	
9/29/2016	<0.0005	
11/28/2016	<0.0005	
2/9/2017	<0.0005	
4/12/2017	<0.0005	
6/16/2017	<0.0005	
10/9/2017	<0.0005	
3/21/2018	<0.0005	
9/19/2018	<0.0005	
3/23/2019		<0.0005
9/18/2019		<0.0005
3/13/2020		<0.0005

Within Limit

Prediction Limit
Intrawell Non-parametric

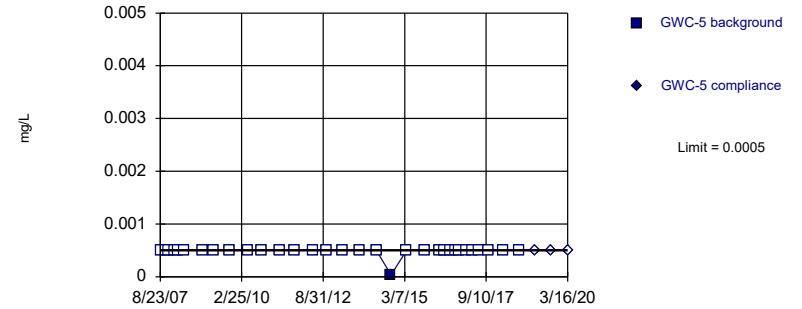


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

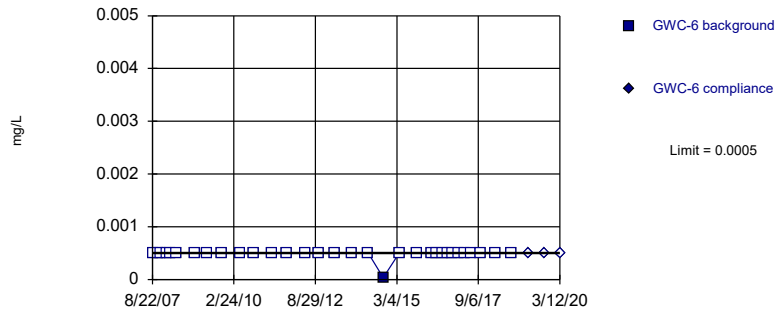


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

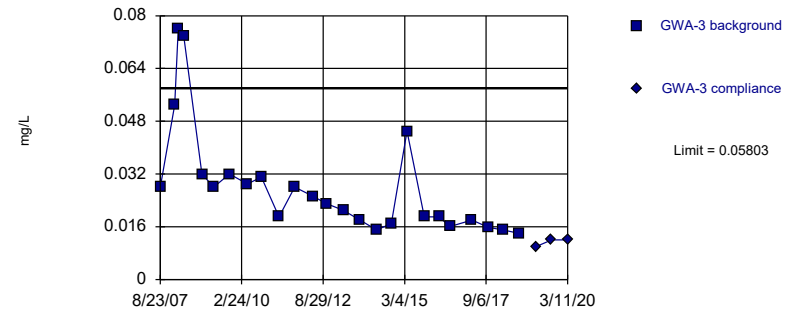


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.684, Std. Dev.=0.4762, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8937, critical = 0.888. Kappa = 1.758 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	<0.0005	
11/2/2007	<0.0005	
11/18/2007	<0.0005	
1/15/2008	<0.0005	
3/10/2008	<0.0005	
5/13/2008	<0.0005	
12/2/2008	<0.0005	
4/28/2009	<0.0005	
10/20/2009	<0.0005	
4/27/2010	<0.0005	
10/5/2010	<0.0005	
4/19/2011	<0.0005	
10/12/2011	<0.0005	
4/25/2012	<0.0005	
10/10/2012	<0.0005	
4/16/2013	<0.0005	
10/22/2013	<0.0005	
4/21/2014	<0.0005	
9/30/2014	<0.0005	
4/3/2015	<0.0005	
10/6/2015	<0.0005	
4/5/2016	<0.0005	
5/31/2016	<0.0005	
11/23/2016	6E-05 (J)	
2/10/2017	<0.0005	
4/11/2017	<0.0005	
6/15/2017	<0.0005	
7/12/2017	<0.0005	
7/26/2017	<0.0005	
10/6/2017	<0.0005	
3/23/2018	<0.0005	
9/19/2018	<0.0005	
3/22/2019		<0.0005
9/17/2019		<0.0005
3/13/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.0005	
10/25/2007	<0.0005	
11/19/2007	<0.0005	
1/23/2008	<0.0005	
3/11/2008	<0.0005	
5/12/2008	<0.0005	
12/11/2008	<0.0005	
4/15/2009	<0.0005	
10/9/2009	<0.0005	
5/4/2010	<0.0005	
10/12/2010	<0.0005	
4/28/2011	<0.0005	
10/19/2011	<0.0005	
5/2/2012	<0.0005	
10/9/2012	<0.0005	
4/11/2013	<0.0005	
10/16/2013	<0.0005	
4/23/2014	<0.0005	
10/3/2014	3.71E-05 (J)	
3/31/2015	<0.0005	
10/12/2015	<0.0005	
3/28/2016	<0.0005	
5/25/2016	<0.0005	
8/1/2016	<0.0005	
9/27/2016	<0.0005	
11/11/2016	<0.0005	
1/31/2017	<0.0005	
4/3/2017	<0.0005	
6/12/2017	<0.0005	
10/3/2017	<0.0005	
3/19/2018	<0.0005	
9/17/2018	<0.0005	
3/20/2019		<0.0005
9/16/2019		<0.0005
3/16/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.0005	
10/25/2007	<0.0005	
11/20/2007	<0.0005	
1/23/2008	<0.0005	
3/11/2008	<0.0005	
5/14/2008	<0.0005	
12/11/2008	<0.0005	
4/23/2009	<0.0005	
10/9/2009	<0.0005	
5/4/2010	<0.0005	
10/11/2010	<0.0005	
4/26/2011	<0.0005	
10/18/2011	<0.0005	
5/2/2012	<0.0005	
10/8/2012	<0.0005	
4/10/2013	<0.0005	
10/8/2013	<0.0005	
4/14/2014	<0.0005	
10/3/2014	3.29E-05 (J)	
4/1/2015	<0.0005	
10/9/2015	<0.0005	
3/29/2016	<0.0005	
5/24/2016	<0.0005	
8/1/2016	<0.0005	
9/26/2016	<0.0005	
11/18/2016	<0.0005	
2/1/2017	<0.0005	
4/6/2017	<0.0005	
6/13/2017	<0.0005	
10/3/2017	<0.0005	
3/19/2018	<0.0005	
9/17/2018	<0.0005	
3/21/2019		<0.0005
9/16/2019		<0.0005
3/12/2020		<0.0005

Prediction Limit

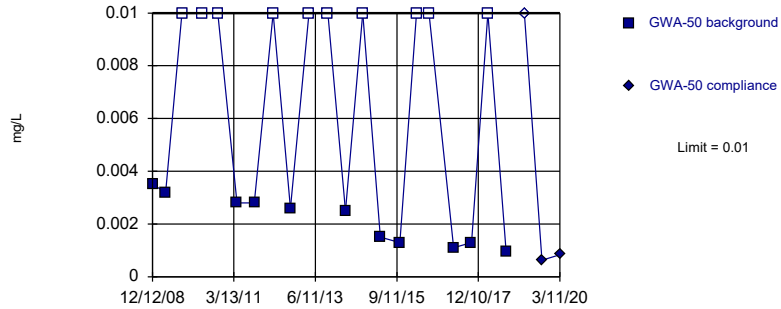
Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	0.028	
11/2/2007	0.041 (o)	
11/18/2007	0.14 (o)	
1/31/2008	0.053	
3/11/2008	0.076	
5/14/2008	0.074	
12/5/2008	0.032	
4/15/2009	0.028	
10/8/2009	0.032	
4/28/2010	0.029	
10/6/2010	0.031	
4/21/2011	0.019	
10/13/2011	0.028	
5/1/2012	0.0253	
10/9/2012	0.023	
4/11/2013	0.021	
10/16/2013	0.018	
4/23/2014	0.015	
10/4/2014	0.017	
3/31/2015	0.045	
10/12/2015	0.019	
3/23/2016	0.019	
7/29/2016	0.0161	
3/30/2017	0.018	
10/4/2017	0.0158	
3/19/2018	0.015	
9/17/2018	0.014	
3/20/2019		0.01
9/13/2019		0.012
3/11/2020		0.012

Within Limit

Prediction Limit
Intrawell Non-parametric

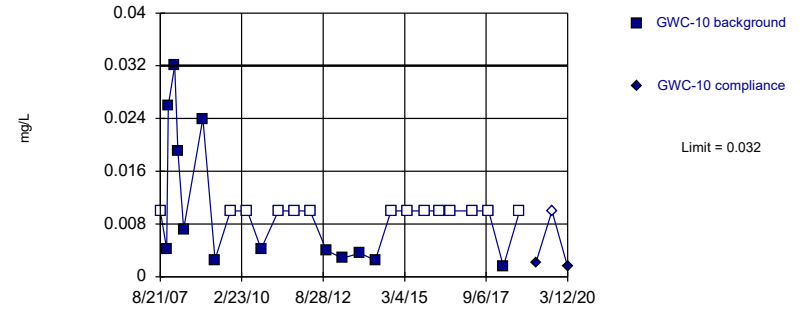


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 47.62% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

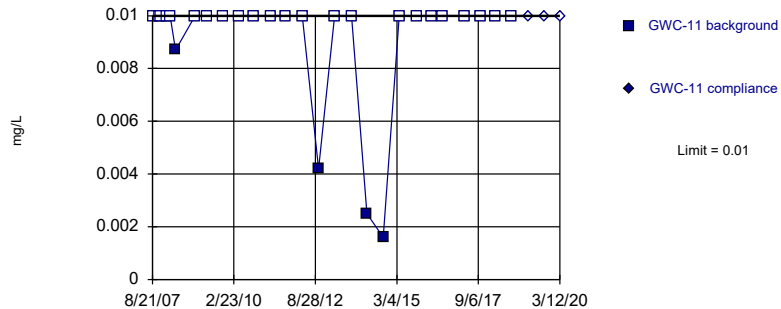


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 51.85% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

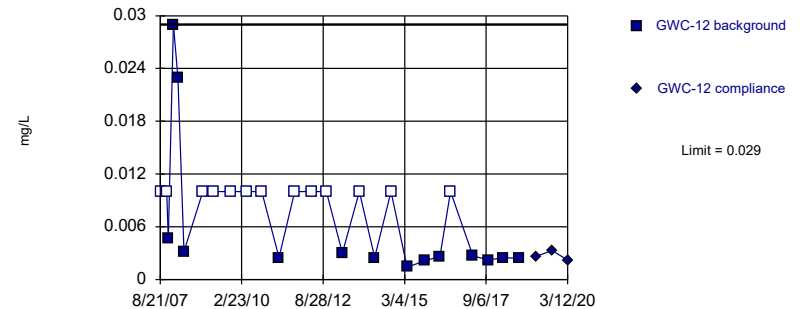


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	0.0035	
4/23/2009	0.0032	
10/6/2009	<0.01	
4/27/2010	<0.01	
9/30/2010	<0.01	
4/14/2011	0.0028	
10/5/2011	0.0028	
4/11/2012	<0.01	
10/2/2012	0.0026	
4/9/2013	<0.01	
10/15/2013	<0.01	
4/10/2014	0.0025 (J)	
10/1/2014	<0.01	
3/30/2015	0.0015 (J)	
10/11/2015	0.0013 (J)	
3/28/2016	<0.01	
8/1/2016	<0.01	
4/7/2017	0.0011 (J)	
10/2/2017	0.0013 (J)	
3/16/2018	<0.01	
9/17/2018	0.00096 (J)	
3/19/2019		<0.01
9/13/2019		0.00063 (J)
3/11/2020		0.00084 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	<0.01	
11/1/2007	0.0042	
11/20/2007	0.026	
1/30/2008	0.032	
3/6/2008	0.019	
5/12/2008	0.0072	
12/13/2008	0.024	
4/29/2009	0.0026	
10/20/2009	<0.01	
4/26/2010	<0.01	
9/29/2010	0.0042	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/3/2012	0.004	
4/3/2013	0.0028	
10/15/2013	0.0036	
4/9/2014	0.0025 (J)	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	<0.01	
3/31/2016	<0.01	
8/5/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/20/2018	0.0016 (J)	
9/18/2018	<0.01	
3/22/2019		0.0022 (J)
9/17/2019		<0.01
3/12/2020		0.0015 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	0.0087	
12/14/2008	<0.01	
4/29/2009	<0.01	
10/22/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/3/2012	0.0042	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	0.0025 (J)	
10/2/2014	0.0016 (J)	
4/1/2015	<0.01	
10/11/2015	<0.01	
4/4/2016	<0.01	
8/3/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

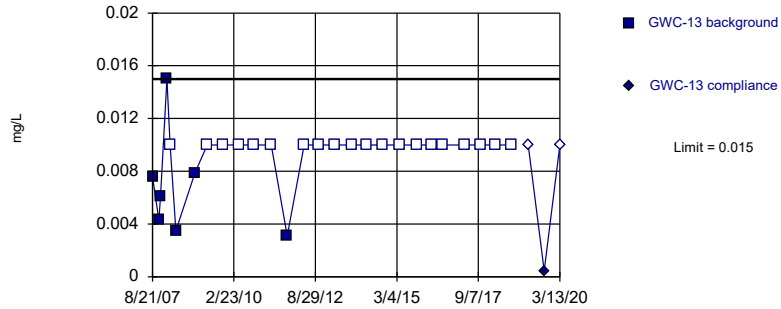
Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	0.0047	
1/16/2008	0.029	
3/5/2008	0.023	
5/13/2008	0.0032	
12/13/2008	<0.01	
4/16/2009	<0.01	
10/21/2009	<0.01	
4/27/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	0.0025	
10/12/2011	<0.01	
4/24/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	0.003	
10/9/2013	<0.01	
4/1/2014	0.0025 (J)	
10/2/2014	<0.01	
4/1/2015	0.0014 (J)	
10/14/2015	0.0021 (J)	
4/4/2016	0.00264 (J)	
8/3/2016	<0.01	
4/11/2017	0.0027 (J)	
10/4/2017	0.0022 (J)	
3/22/2018	0.0025 (J)	
9/18/2018	0.0024 (J)	
3/23/2019		0.0026 (J)
9/17/2019		0.0033 (JD)
3/12/2020		0.0022 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

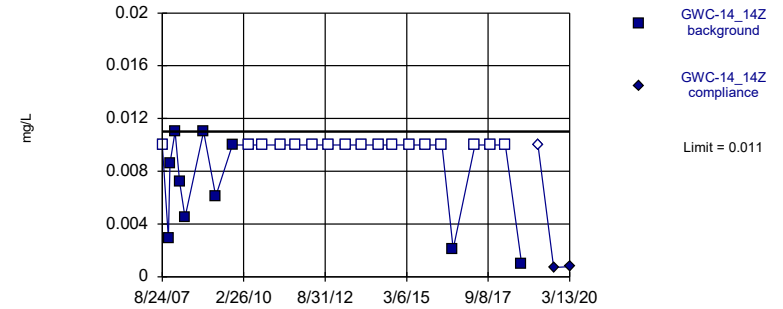


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

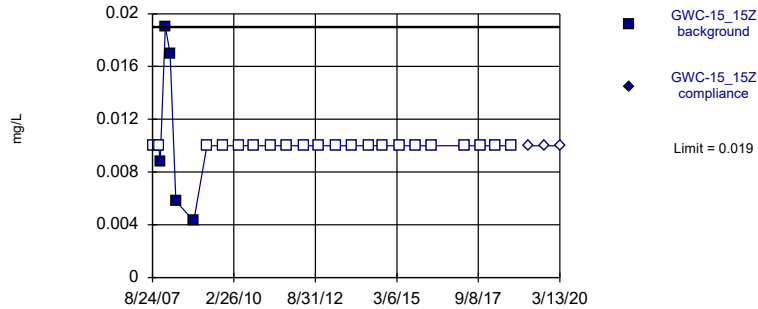


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

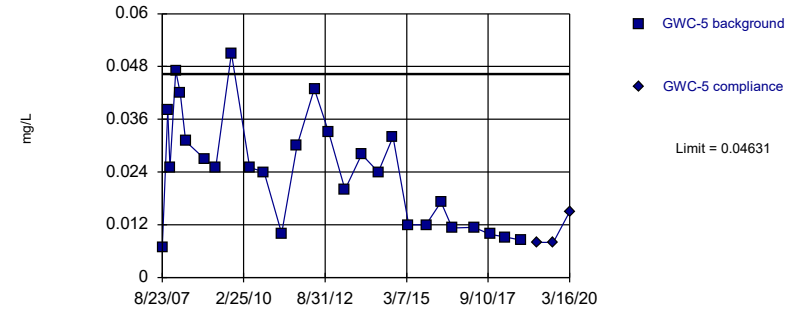


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02419, Std. Dev.=0.01273, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	0.0076	
11/1/2007	0.0043	
11/19/2007	0.0061	
1/31/2008	0.015	
3/5/2008	<0.01	
5/12/2008	0.0035	
12/13/2008	0.0079	
4/28/2009	<0.01	
10/21/2009	<0.01	
4/28/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	<0.01	
10/18/2011	0.0031	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	<0.01	
10/1/2014	<0.01	
4/1/2015	<0.01	
10/15/2015	<0.01	
4/4/2016	<0.01	
8/4/2016	<0.01	
4/12/2017	<0.01	
10/9/2017	<0.01	
3/21/2018	<0.01	
9/19/2018	<0.01	
3/23/2019		<0.01
9/18/2019		0.00046 (J)
3/13/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	<0.01	
11/2/2007	0.0029	
11/17/2007	0.0086	
1/15/2008	0.011	
3/5/2008	0.0072	
5/7/2008	0.0045	
12/2/2008	0.011	
4/16/2009	0.0061	
10/20/2009	0.01	
4/20/2010	<0.01	
9/29/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/7/2015	<0.01	
4/5/2016	<0.01	
8/9/2016	0.0021 (J)	
4/11/2017	<0.01	
10/5/2017	<0.01	
3/22/2018	<0.01	
9/19/2018	0.00096 (J)	
3/22/2019		<0.01
9/17/2019		0.0007 (X)
3/13/2020		0.00078 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	<0.01	
11/2/2007	<0.01	
11/18/2007	0.0088 (J)	
1/15/2008	0.019	
3/10/2008	0.017	
5/13/2008	0.0058	
12/2/2008	0.0043	
4/28/2009	<0.01	
10/20/2009	<0.01	
4/27/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/10/2012	<0.01	
4/16/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	<0.01	
9/30/2014	<0.01	
4/3/2015	<0.01	
10/6/2015	<0.01	
4/5/2016	<0.01	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

Prediction Limit

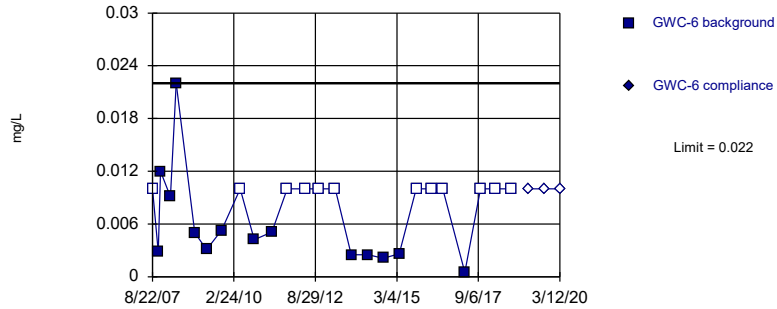
Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.0069	
10/25/2007	0.038	
11/19/2007	0.025	
1/23/2008	0.047	
3/11/2008	0.042	
5/12/2008	0.031	
12/11/2008	0.027	
4/15/2009	0.025	
10/9/2009	0.051	
5/4/2010	0.025	
10/12/2010	0.024	
4/28/2011	0.01	
10/19/2011	0.03	
5/2/2012	0.0429	
10/9/2012	0.033	
4/11/2013	0.02	
10/16/2013	0.028	
4/23/2014	0.024	
10/3/2014	0.032	
3/31/2015	0.012	
10/12/2015	0.012	
3/28/2016	0.0172	
8/1/2016	0.0113	
4/3/2017	0.0114	
10/3/2017	0.0098 (J)	
3/19/2018	0.0092 (J)	
9/17/2018	0.0085 (J)	
3/20/2019		0.008 (J)
9/16/2019		0.008 (J)
3/16/2020		0.015

Within Limit

Prediction Limit
Intrawell Non-parametric

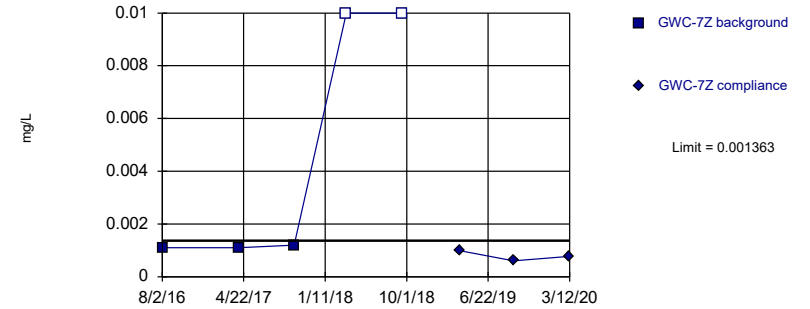


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 46.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

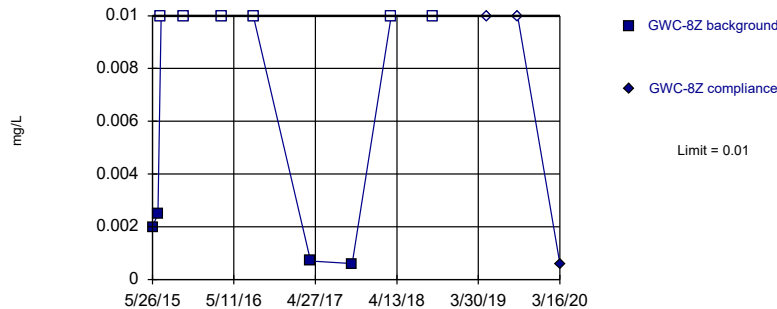


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001133, Std. Dev.=0.00004714, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.689, critical = 0.686. Kappa = 4.875 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

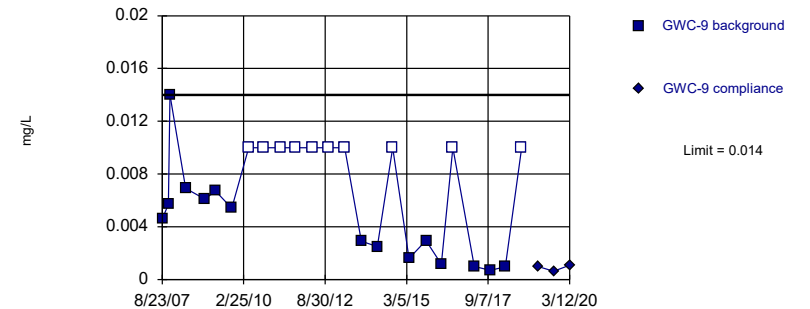


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 25 background values. 40% NDs. Well-constituent pair annual alpha = 0.0006091. Individual comparison alpha = 0.0003046 (1 of 3).

Constituent: Nickel Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.01	
10/25/2007	0.0028	
11/20/2007	0.012	
1/23/2008	0.046 (o)	
3/11/2008	0.0091	
5/14/2008	0.022	
12/11/2008	0.005	
4/23/2009	0.0031	
10/9/2009	0.0053	
5/4/2010	<0.01	
10/11/2010	0.0042	
4/26/2011	0.0051	
10/18/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/10/2013	<0.01	
10/8/2013	0.0025	
4/14/2014	0.0025 (J)	
10/3/2014	0.0021 (J)	
4/1/2015	0.0026	
10/9/2015	<0.01	
3/29/2016	<0.01	
8/1/2016	<0.01	
4/6/2017	0.0005 (J)	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
8/2/2016	0.0011 (J)	
4/6/2017	0.0011 (J)	
10/3/2017	0.0012 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01	
3/21/2019		0.00099 (J)
9/13/2019		0.00061 (J)
3/12/2020		0.00078 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	0.002 (J)	
6/18/2015	0.0025 (D)	
7/2/2015	<0.01	
10/8/2015	<0.01	
3/22/2016	<0.01	
8/2/2016	<0.01	
4/7/2017	0.0007 (J)	
10/3/2017	0.0006 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01	
5/6/2019		<0.01
9/16/2019		<0.01
3/16/2020		0.0006 (J)

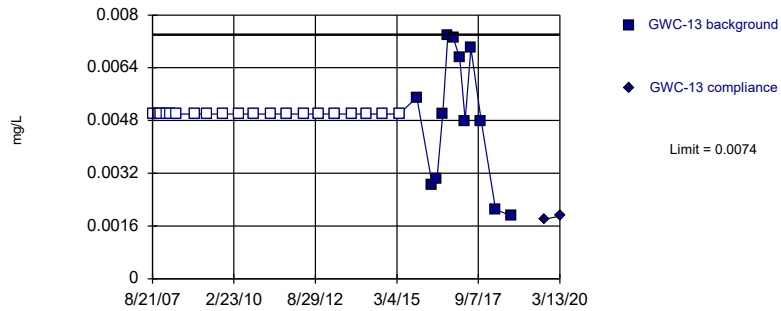
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	0.0046	
11/1/2007	0.0057	
11/19/2007	0.014 (J)	
1/15/2008	0.057 (o)	
3/6/2008	0.046 (o)	
5/13/2008	0.0069	
12/12/2008	0.0061	
4/16/2009	0.0067 (J)	
10/13/2009	0.0054	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/8/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	0.0029	
4/9/2014	0.0025 (J)	
9/30/2014	<0.01	
4/2/2015	0.0016 (J)	
10/10/2015	0.00295 (D)	
3/30/2016	0.00116 (J)	
8/5/2016	<0.01	
4/6/2017	0.001 (J)	
10/3/2017	0.0007 (J)	
3/20/2018	0.00097 (J)	
9/18/2018	<0.01 (D)	
3/21/2019		0.001 (J)
9/16/2019		0.00062 (J)
3/12/2020		0.0011 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

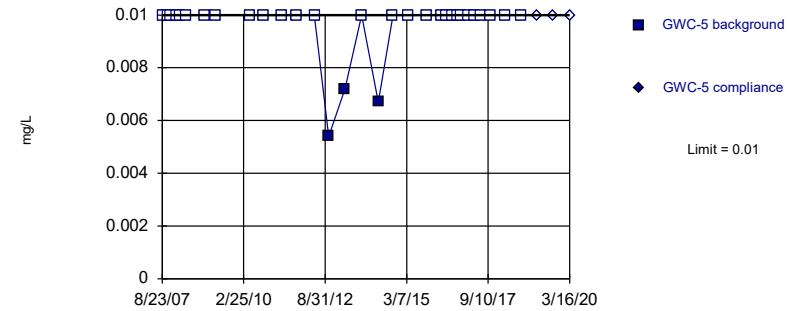


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Selenium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

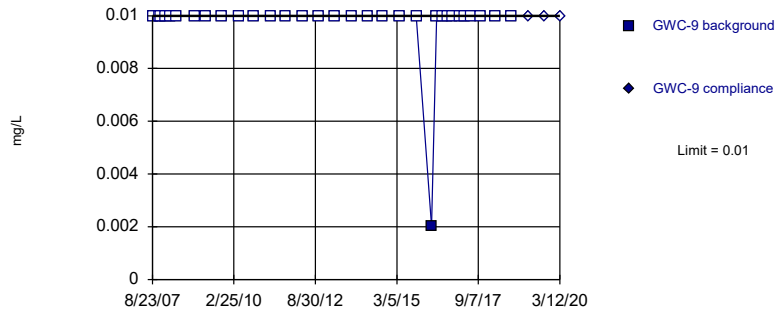


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Selenium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

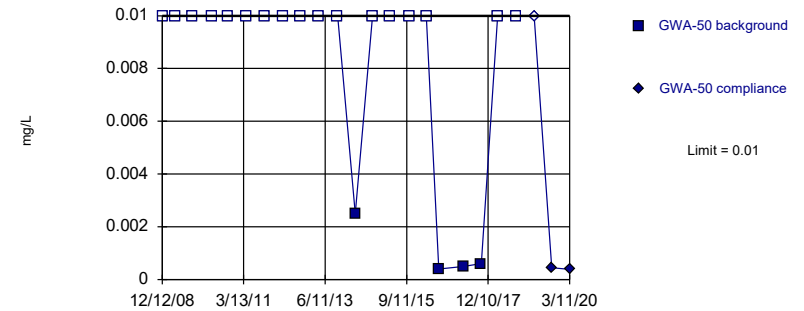


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Selenium Analysis Run 4/14/2020 10:24 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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. 80.95% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Silver Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	<0.005	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/12/2008	<0.005	
12/13/2008	<0.005	
4/28/2009	<0.005	
10/21/2009	<0.005	
4/28/2010	<0.005	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/18/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/8/2013	<0.005	
4/1/2014	<0.005	
10/1/2014	<0.005	
4/1/2015	<0.005	
10/15/2015	0.0055	
4/4/2016	0.00286 (J)	
5/31/2016	0.00303 (J)	
8/4/2016	0.005 (J)	
9/29/2016	0.0074 (J)	
11/28/2016	0.0073 (J)	
2/9/2017	0.0067 (J)	
4/12/2017	0.0048 (J)	
6/16/2017	0.007 (J)	
10/9/2017	0.0048 (J)	
3/21/2018	0.0021 (J)	
9/19/2018	0.0019 (J)	
3/23/2019		<0.01 (o)
9/18/2019		0.0018 (J)
3/13/2020		0.0019 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.01	
10/25/2007	<0.01	
11/19/2007	<0.01	
1/23/2008	<0.01	
3/11/2008	<0.01	
5/12/2008	<0.01	
12/11/2008	<0.01	
4/15/2009	<0.01	
10/9/2009	0.015 (o)	
5/4/2010	<0.01	
10/12/2010	<0.01	
4/28/2011	<0.01	
10/19/2011	<0.01	
5/2/2012	<0.01	
10/9/2012	0.0054	
4/11/2013	0.0072	
10/16/2013	<0.01	
4/23/2014	0.0067	
10/3/2014	<0.01	
3/31/2015	<0.01	
10/12/2015	<0.01	
3/28/2016	<0.01	
5/25/2016	<0.01	
8/1/2016	<0.01	
9/27/2016	<0.01	
11/11/2016	<0.01	
1/31/2017	<0.01	
4/3/2017	<0.01	
6/12/2017	<0.01	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/16/2019		<0.01
3/16/2020		<0.01

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/15/2008	<0.01	
3/6/2008	<0.01	
5/13/2008	<0.01	
12/12/2008	<0.01	
4/16/2009	<0.01	
10/13/2009	<0.01	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/8/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	<0.01	
4/9/2014	<0.01	
9/30/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	<0.01 (D)	
3/30/2016	0.00202 (J)	
5/26/2016	<0.01	
8/5/2016	<0.01	
9/28/2016	<0.01	
11/21/2016	<0.01	
2/6/2017	<0.01	
4/6/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01 (D)	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01

Prediction Limit

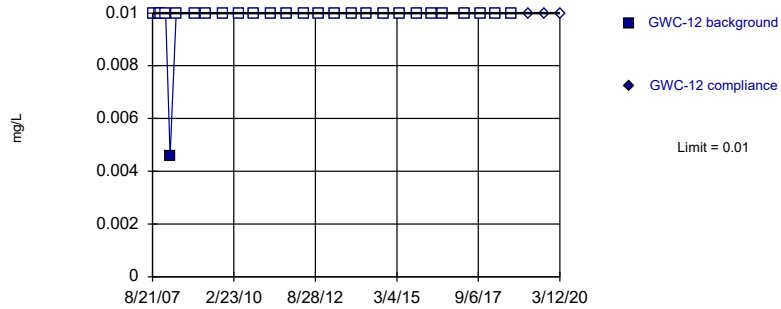
Constituent: Silver (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.01	
4/23/2009	<0.01	
10/6/2009	<0.01	
4/27/2010	<0.01	
9/30/2010	<0.01	
4/14/2011	<0.01	
10/5/2011	<0.01	
4/11/2012	<0.01	
10/2/2012	<0.01	
4/9/2013	<0.01	
10/15/2013	<0.01	
4/10/2014	0.0025 (J)	
10/1/2014	<0.01	
3/30/2015	<0.01	
10/11/2015	<0.01	
3/28/2016	<0.01	
8/1/2016	0.0004 (J)	
4/7/2017	0.0005 (J)	
10/2/2017	0.0006 (J)	
3/16/2018	<0.01	
9/17/2018	<0.01	
3/19/2019		<0.01
9/13/2019		0.00045 (J)
3/11/2020		0.00039 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

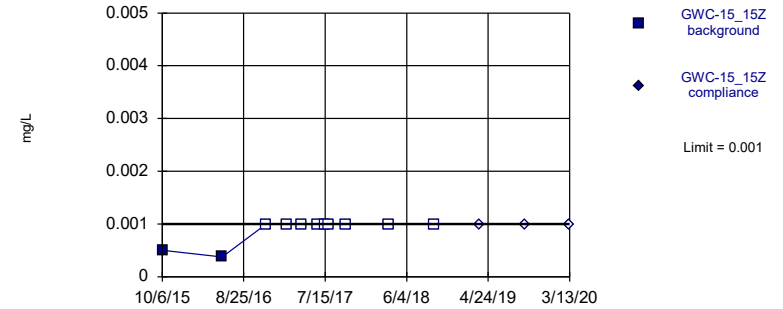


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Silver Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

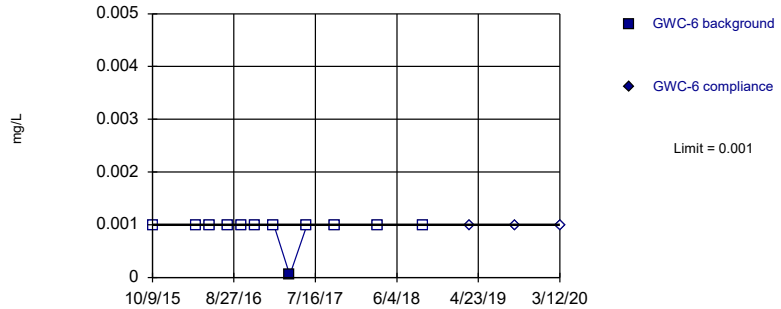


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

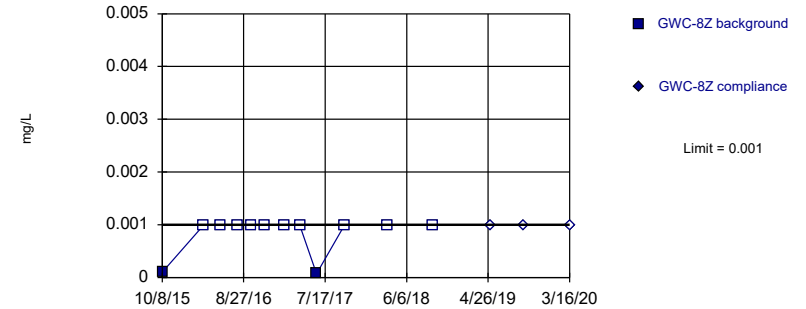


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/16/2008	<0.01	
3/5/2008	0.0046	
5/13/2008	<0.01	
12/13/2008	<0.01	
4/16/2009	<0.01	
10/21/2009	<0.01	
4/27/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	<0.01	
10/12/2011	<0.01	
4/24/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/9/2013	<0.01	
4/1/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	<0.01	
10/14/2015	<0.01	
4/4/2016	<0.01	
8/3/2016	<0.01	
4/11/2017	<0.01	
10/4/2017	<0.01	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01 (D)
3/12/2020		<0.01

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
10/6/2015	0.0005 (D)	
4/5/2016	0.00971 (o)	
5/31/2016	0.000373 (J)	
11/23/2016	<0.001	
2/10/2017	<0.001	
4/11/2017	<0.001	
6/15/2017	<0.001	
7/12/2017	<0.001	
7/26/2017	<0.001	
10/6/2017	<0.001	
3/23/2018	<0.001	
9/19/2018	<0.001	
3/22/2019		<0.001
9/17/2019		<0.001
3/13/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
10/9/2015	<0.001	
3/29/2016	<0.001	
5/24/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	<0.001	
11/18/2016	<0.001	
2/1/2017	<0.001	
4/6/2017	5E-05 (J)	
6/13/2017	<0.001	
10/3/2017	<0.001	
3/19/2018	<0.001	
9/17/2018	<0.001	
3/21/2019		<0.001
9/16/2019		<0.001
3/12/2020		<0.001

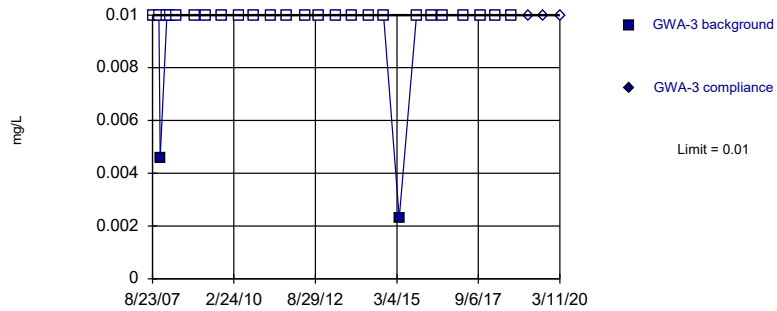
Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
10/8/2015	0.0001 (D)	
3/22/2016	<0.001	
5/25/2016	<0.001	
8/2/2016	<0.001	
9/26/2016	<0.001	
11/21/2016	<0.001	
2/3/2017	<0.001	
4/7/2017	<0.001	
6/13/2017	7E-05 (J)	
10/3/2017	<0.001	
3/20/2018	<0.001	
9/18/2018	<0.001	
5/6/2019		<0.001
9/16/2019		<0.001
3/16/2020		<0.001

Within Limit

Prediction Limit Intrawell Non-parametric

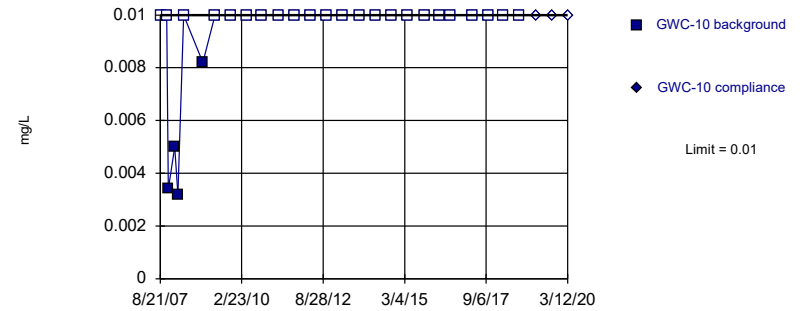


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

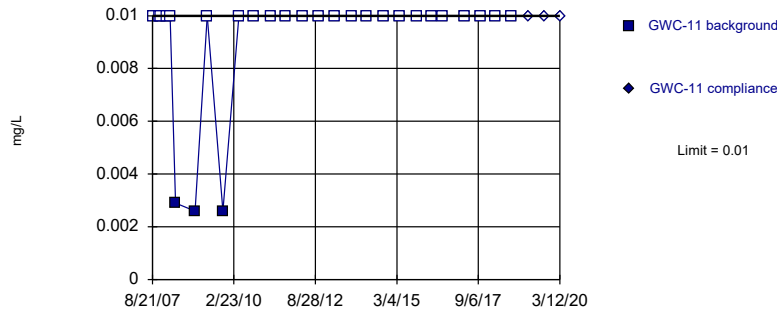


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

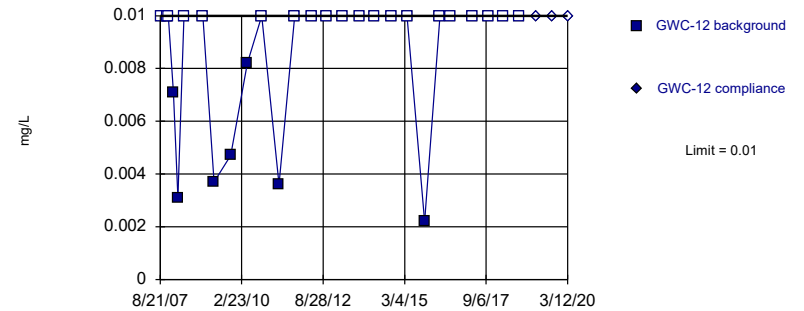


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	<0.01	
11/2/2007	<0.01	
11/18/2007	0.0046	
1/31/2008	<0.01	
3/11/2008	<0.01	
5/14/2008	<0.01	
12/5/2008	<0.01	
4/15/2009	<0.01	
10/8/2009	<0.01	
4/28/2010	<0.01	
10/6/2010	<0.01	
4/21/2011	<0.01	
10/13/2011	<0.01	
5/1/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/23/2014	<0.01	
10/4/2014	<0.01	
3/31/2015	0.0023 (J)	
10/12/2015	<0.01	
3/23/2016	<0.01	
7/29/2016	<0.01	
3/30/2017	<0.01	
10/4/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/13/2019		<0.01
3/11/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	<0.01	
11/1/2007	<0.01	
11/20/2007	0.0034	
1/30/2008	0.005	
3/6/2008	0.0032	
5/12/2008	<0.01	
12/13/2008	0.0082	
4/29/2009	<0.01	
10/20/2009	<0.01	
4/26/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/15/2013	<0.01	
4/9/2014	<0.01	
10/2/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	<0.01	
3/31/2016	<0.01	
8/5/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	0.0029	
12/14/2008	0.0026	
4/29/2009	<0.01	
10/22/2009	0.0026	
4/21/2010	<0.01	
9/28/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	<0.01	
10/11/2015	<0.01	
4/4/2016	<0.01	
8/3/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01
3/12/2020		<0.01

Prediction Limit

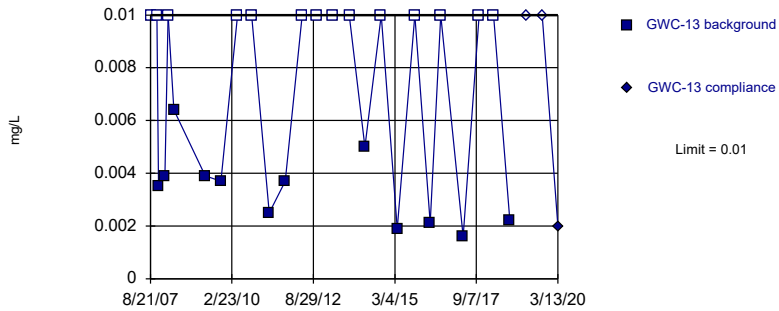
Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	<0.01	
1/16/2008	0.0071	
3/5/2008	0.0031	
5/13/2008	<0.01	
12/13/2008	<0.01	
4/16/2009	0.0037	
10/21/2009	0.0047	
4/27/2010	0.0082	
10/5/2010	<0.01	
4/19/2011	0.0036	
10/12/2011	<0.01	
4/24/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/9/2013	<0.01	
4/1/2014	<0.01	
10/2/2014	<0.01	
4/1/2015	<0.01	
10/14/2015	0.0022 (J)	
4/4/2016	<0.01	
8/3/2016	<0.01	
4/11/2017	<0.01	
10/4/2017	<0.01	
3/22/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		<0.01 (D)
3/12/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

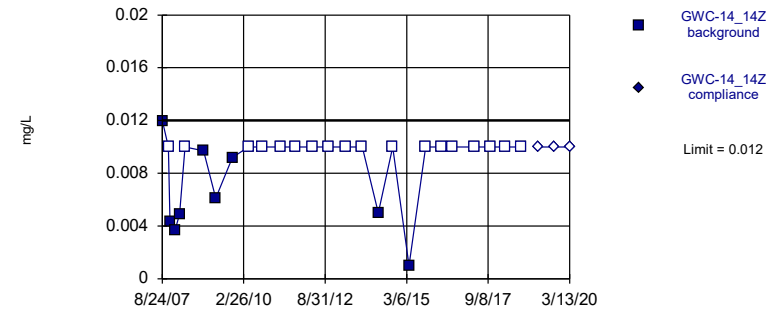


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

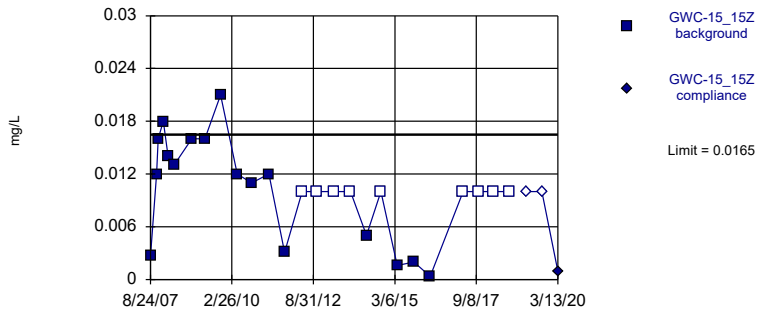


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

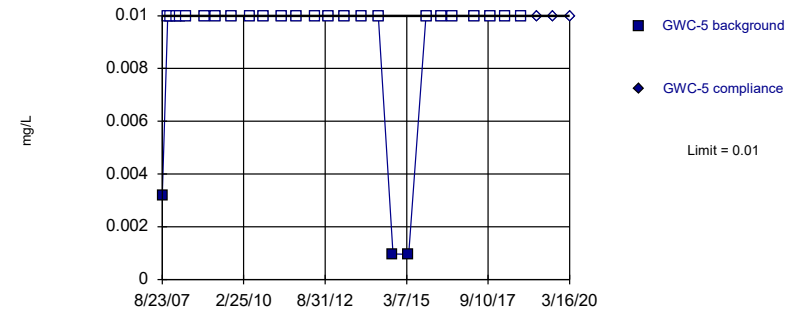


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006028, Std. Dev.=0.005988, n=26, 34.62% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9325, critical = 0.891. Kappa = 1.748 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 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 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	0.0035	
1/31/2008	0.0039	
3/5/2008	<0.01	
5/12/2008	0.0064	
12/13/2008	0.02 (o)	
4/28/2009	0.0039	
10/21/2009	0.0037	
4/28/2010	<0.01	
10/5/2010	<0.01	
4/19/2011	0.0025	
10/18/2011	0.0037	
4/25/2012	<0.01	
10/2/2012	<0.01	
4/2/2013	<0.01	
10/8/2013	<0.01	
4/1/2014	0.005 (J)	
10/1/2014	<0.01	
4/1/2015	0.0019 (J)	
10/15/2015	<0.01	
4/4/2016	0.00211 (J)	
8/4/2016	<0.01	
4/12/2017	0.0016 (J)	
10/9/2017	<0.01	
3/21/2018	<0.01	
9/19/2018	0.0022 (J)	
3/23/2019		<0.01
9/18/2019		<0.01
3/13/2020		0.002 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	0.012	
11/2/2007	<0.01	
11/17/2007	0.0043	
1/15/2008	0.0037	
3/5/2008	0.0049	
5/7/2008	<0.01	
12/2/2008	0.0097	
4/16/2009	0.0061	
10/20/2009	0.0092	
4/20/2010	<0.01	
9/29/2010	<0.01	
4/12/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
10/10/2012	<0.01	
4/15/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	0.005 (J)	
9/30/2014	<0.01	
4/3/2015	0.001 (J)	
10/7/2015	<0.01	
4/5/2016	<0.01	
8/9/2016	<0.01	
4/11/2017	<0.01	
10/5/2017	<0.01	
3/22/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
8/24/2007	0.0027	
11/2/2007	0.012	
11/18/2007	0.016 (J)	
1/15/2008	0.018	
3/10/2008	0.014	
5/13/2008	0.013	
12/2/2008	0.016	
4/28/2009	0.016	
10/20/2009	0.021	
4/27/2010	0.012	
10/5/2010	0.011	
4/19/2011	0.012	
10/12/2011	0.0031	
4/25/2012	<0.01	
10/10/2012	<0.01	
4/16/2013	<0.01	
10/22/2013	<0.01	
4/21/2014	0.005 (J)	
9/30/2014	<0.01	
4/3/2015	0.0016 (J)	
10/6/2015	0.002 (J)	
4/5/2016	0.00036 (J)	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		0.00095 (J)

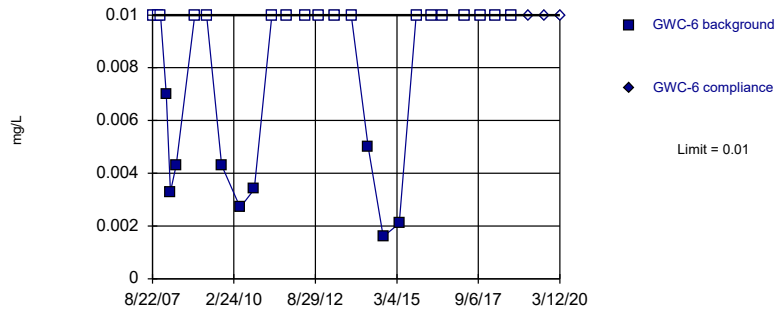
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.0032	
10/25/2007	<0.01	
11/19/2007	<0.01	
1/23/2008	<0.01	
3/11/2008	<0.01	
5/12/2008	<0.01	
12/11/2008	<0.01	
4/15/2009	<0.01	
10/9/2009	<0.01	
5/4/2010	<0.01	
10/12/2010	<0.01	
4/28/2011	<0.01	
10/19/2011	<0.01	
5/2/2012	<0.01	
10/9/2012	<0.01	
4/11/2013	<0.01	
10/16/2013	<0.01	
4/23/2014	<0.01	
10/3/2014	0.00097 (J)	
3/31/2015	0.00096 (J)	
10/12/2015	<0.01	
3/28/2016	<0.01	
8/1/2016	<0.01	
4/3/2017	<0.01	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/20/2019		<0.01
9/16/2019		<0.01
3/16/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

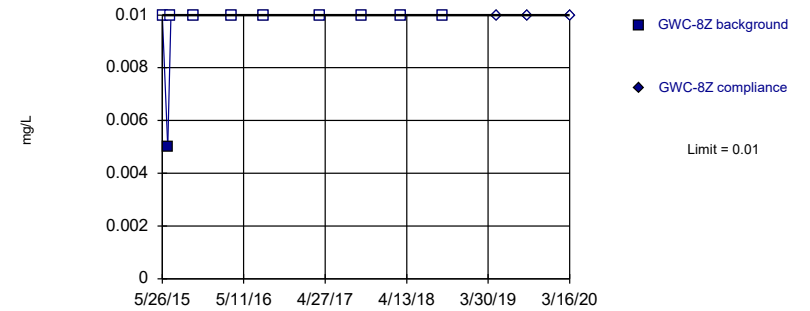


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

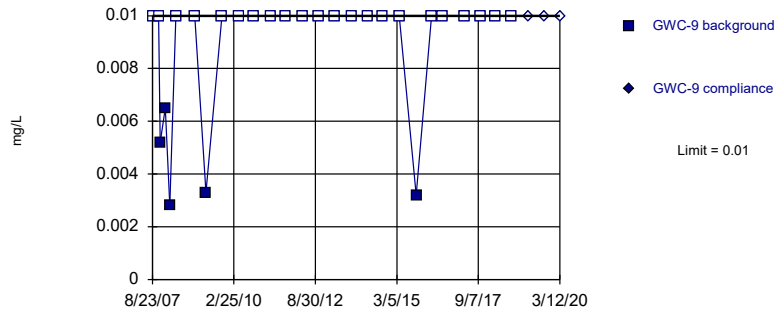


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

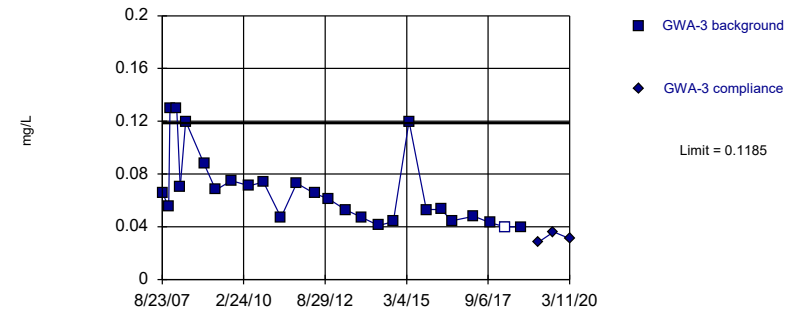


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-2.766, Std. Dev.=0.3644, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.01	
10/25/2007	<0.01	
11/20/2007	<0.01	
1/23/2008	0.007	
3/11/2008	0.0033	
5/14/2008	0.0043	
12/11/2008	<0.01	
4/23/2009	<0.01	
10/9/2009	0.0043	
5/4/2010	0.0027	
10/11/2010	0.0034	
4/26/2011	<0.01	
10/18/2011	<0.01	
5/2/2012	<0.01	
10/8/2012	<0.01	
4/10/2013	<0.01	
10/8/2013	<0.01	
4/14/2014	0.005 (J)	
10/3/2014	0.0016 (J)	
4/1/2015	0.0021 (J)	
10/9/2015	<0.01	
3/29/2016	<0.01	
8/1/2016	<0.01	
4/6/2017	<0.01	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	<0.01	
6/18/2015	0.005 (D)	
7/2/2015	<0.01	
10/8/2015	<0.01	
3/22/2016	<0.01	
8/2/2016	<0.01	
4/7/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01	
5/6/2019		<0.01
9/16/2019		<0.01
3/16/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	<0.01	
11/1/2007	<0.01	
11/19/2007	0.0052	
1/15/2008	0.0065	
3/6/2008	0.0028	
5/13/2008	<0.01	
12/12/2008	<0.01	
4/16/2009	0.0033	
10/13/2009	<0.01	
4/21/2010	<0.01	
9/29/2010	<0.01	
4/13/2011	<0.01	
10/5/2011	<0.01	
4/4/2012	<0.01	
10/8/2012	<0.01	
4/8/2013	<0.01	
10/9/2013	<0.01	
4/9/2014	<0.01	
9/30/2014	<0.01	
4/2/2015	<0.01	
10/10/2015	0.0032 (D)	
3/30/2016	<0.01	
8/5/2016	<0.01	
4/6/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/18/2018	<0.01 (D)	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01

Prediction Limit

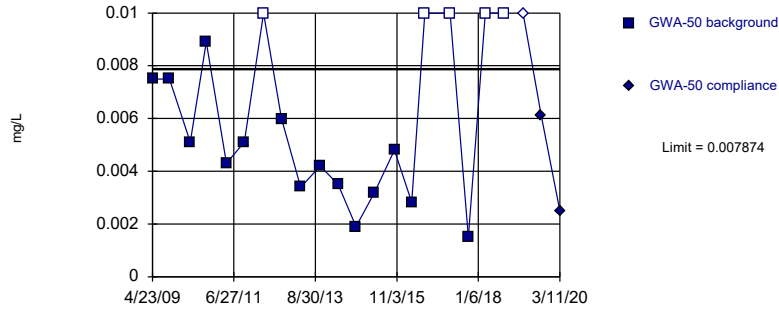
Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
8/23/2007	0.066	
11/2/2007	0.055	
11/18/2007	0.13	
1/31/2008	0.13	
3/11/2008	0.07	
5/14/2008	0.12	
12/5/2008	0.088	
4/15/2009	0.068	
10/8/2009	0.075	
4/28/2010	0.071	
10/6/2010	0.074	
4/21/2011	0.047	
10/13/2011	0.073	
5/1/2012	0.0652	
10/9/2012	0.061	
4/11/2013	0.053	
10/16/2013	0.047	
4/23/2014	0.041	
10/4/2014	0.044 (V)	
3/31/2015	0.12	
10/12/2015	0.053	
3/23/2016	0.0532	
7/29/2016	0.0446	
3/30/2017	0.0479	
10/4/2017	0.0429	
3/19/2018	<0.04	
9/17/2018	0.04	
3/20/2019		0.028
9/13/2019		0.036
3/11/2020		0.031

Within Limit

Prediction Limit
Intrawell Parametric

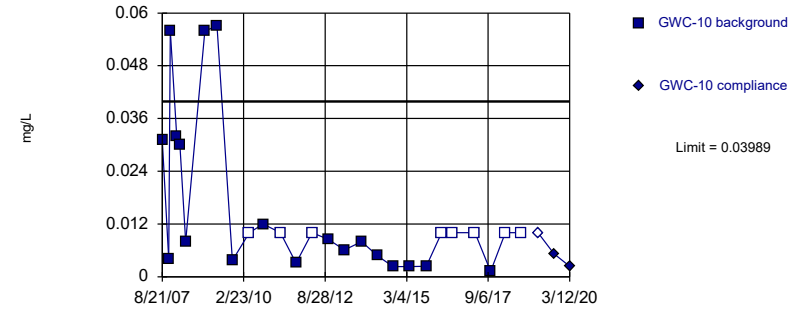


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004272, Std. Dev.=0.001962, n=20, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8936, critical = 0.868. Kappa = 1.836 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

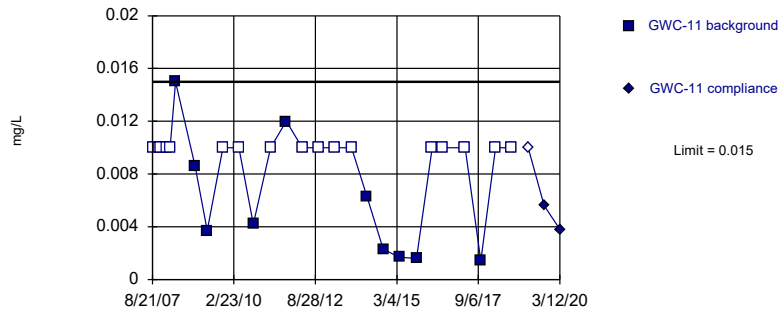


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.18, Std. Dev.=1.127, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

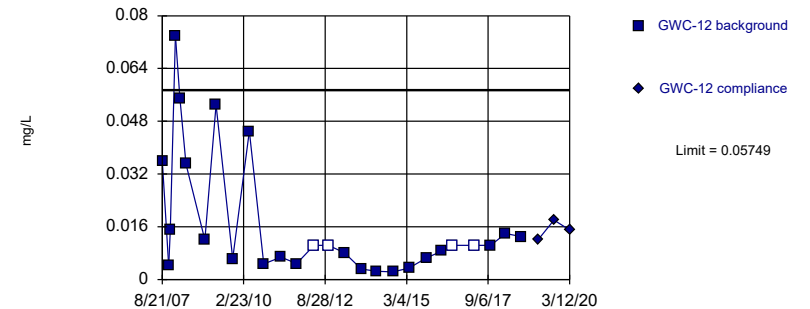


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.541, Std. Dev.=0.9693, n=27, 14.81% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
4/23/2009	0.0075	
10/6/2009	0.0075	
4/27/2010	0.0051	
9/30/2010	0.0089	
4/14/2011	0.0043	
10/5/2011	0.0051	
4/11/2012	<0.01	
10/2/2012	0.006	
4/9/2013	0.0034	
10/15/2013	0.0042	
4/10/2014	0.0035	
10/1/2014	0.0019 (J)	
3/30/2015	0.0032	
10/11/2015	0.0048	
3/28/2016	0.00282 (J)	
8/1/2016	<0.01	
4/7/2017	<0.01	
10/2/2017	0.0015 (J)	
3/16/2018	<0.01	
9/17/2018	<0.01	
3/19/2019		<0.01
9/13/2019		0.0061 (J)
3/11/2020		0.0025 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
8/21/2007	0.031	
11/1/2007	0.0041	
11/20/2007	0.056	
1/30/2008	0.032	
3/6/2008	0.03	
5/12/2008	0.008	
12/13/2008	0.056	
4/29/2009	0.057	
10/20/2009	0.0037	
4/26/2010	<0.01	
9/29/2010	0.012	
4/13/2011	<0.01	
10/5/2011	0.0031	
4/4/2012	<0.01	
10/3/2012	0.0085	
4/3/2013	0.0061	
10/15/2013	0.008	
4/9/2014	0.0048	
10/2/2014	0.0023 (JV)	
4/2/2015	0.0023 (J)	
10/10/2015	0.0024 (J)	
3/31/2016	<0.01	
8/5/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	0.0012 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.0052 (J)
3/12/2020		0.0024 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.01	
11/1/2007	<0.01	
11/18/2007	<0.01	
1/30/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	0.015	
12/14/2008	0.0086 (J)	
4/29/2009	0.0037	
10/22/2009	<0.01	
4/21/2010	<0.01	
9/28/2010	0.0042	
4/12/2011	<0.01	
10/4/2011	0.012	
4/3/2012	<0.01	
10/3/2012	<0.01	
4/3/2013	<0.01	
10/9/2013	<0.01	
4/2/2014	0.0063	
10/2/2014	0.0023 (J)	
4/1/2015	0.0017 (J)	
10/11/2015	0.0016 (J)	
4/4/2016	<0.01	
8/3/2016	<0.01	
4/10/2017	<0.01	
10/4/2017	0.0014 (J)	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/23/2019		<0.01
9/17/2019		0.0056 (J)
3/12/2020		0.0038 (J)

Prediction Limit

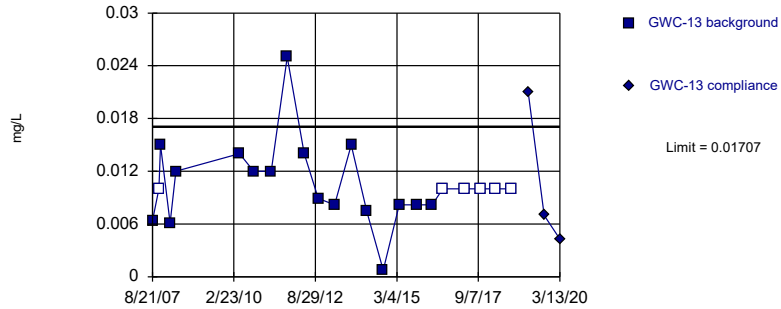
Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	0.036	
11/1/2007	0.0041	
11/19/2007	0.015	
1/16/2008	0.074	
3/5/2008	0.055	
5/13/2008	0.035	
12/13/2008	0.012 (J)	
4/16/2009	0.053	
10/21/2009	0.0063	
4/27/2010	0.045	
10/5/2010	0.0047	
4/19/2011	0.0068	
10/12/2011	0.0048	
4/24/2012	<0.0104	
10/2/2012	<0.0104	
4/2/2013	0.0081	
10/9/2013	0.0032	
4/1/2014	0.0025 (J)	
10/2/2014	0.0023 (J)	
4/1/2015	0.0035	
10/14/2015	0.0066	
4/4/2016	0.00858 (J)	
8/3/2016	<0.0104	
4/11/2017	<0.0104	
10/4/2017	0.0104	
3/22/2018	0.014	
9/18/2018	0.013	
3/23/2019		0.012
9/17/2019		0.018 (D)
3/12/2020		0.015

Within Limit

Prediction Limit
Intrawell Parametric

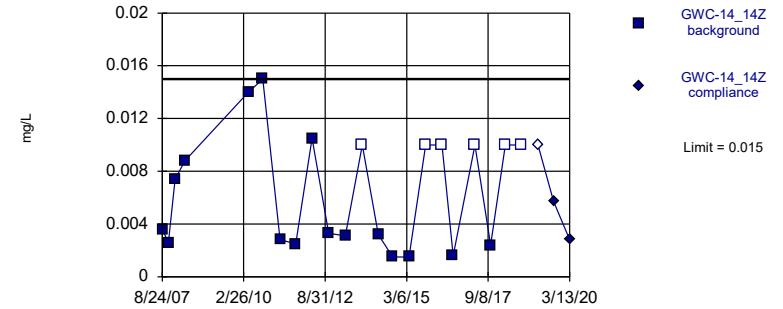


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.008189, Std. Dev.=0.004965, n=23, 26.09% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8841, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

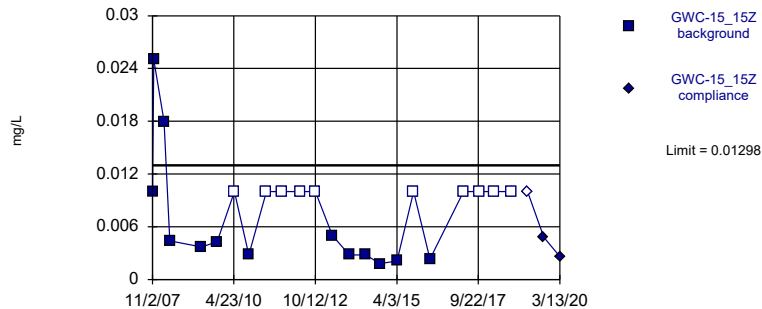


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

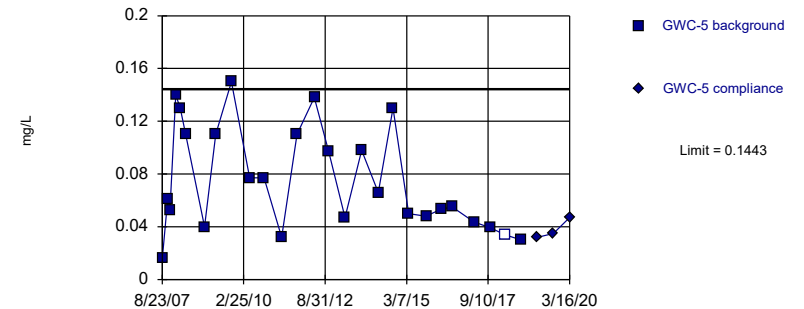


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1578, Std. Dev.=0.04314, n=23, 43.48% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8815, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.07538, Std. Dev.=0.03964, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9153, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	0.0064	
11/1/2007	<0.01	
11/19/2007	0.015	
3/5/2008	0.0061	
5/12/2008	0.012	
4/28/2010	0.014	
10/5/2010	0.012	
4/19/2011	0.012	
10/18/2011	0.025	
4/25/2012	0.014	
10/2/2012	0.0089	
4/2/2013	0.0082	
10/8/2013	0.015	
4/1/2014	0.0074	
10/1/2014	0.00077 (J)	
4/1/2015	0.0082	
10/15/2015	0.0082	
4/4/2016	0.00818 (J)	
8/4/2016	<0.01	
4/12/2017	<0.01	
10/9/2017	<0.01	
3/21/2018	<0.01	
9/19/2018	<0.01	
3/23/2019		0.021
9/18/2019		0.007 (J)
3/13/2020		0.0043 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
8/24/2007	0.0036 (J)	
11/2/2007	0.0026 (J)	
11/17/2007	0.024 (o)	
1/15/2008	0.0074	
3/5/2008	0.075 (o)	
5/7/2008	0.0088	
12/2/2008	0.11 (o)	
4/16/2009	0.091 (o)	
10/20/2009	0.056 (o)	
4/20/2010	0.014	
9/29/2010	0.015	
4/12/2011	0.0028	
10/4/2011	0.0025	
4/4/2012	0.0105	
10/10/2012	0.0033	
4/15/2013	0.0031	
10/22/2013	<0.01	
4/21/2014	0.0032	
9/30/2014	0.0015 (J)	
4/3/2015	0.0015 (J)	
10/7/2015	<0.01	
4/5/2016	<0.01	
8/9/2016	0.0016 (J)	
4/11/2017	<0.01	
10/5/2017	0.0024 (J)	
3/22/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.0057 (X)
3/13/2020		0.0028 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
11/2/2007	0.01 (J)	
11/18/2007	0.025 (J)	
3/10/2008	0.018	
5/13/2008	0.0044	
4/28/2009	0.0037 (J)	
10/20/2009	0.0043	
4/27/2010	<0.01	
10/5/2010	0.0028	
4/19/2011	<0.01	
10/12/2011	<0.01	
4/25/2012	<0.01	
10/10/2012	<0.01	
4/16/2013	0.005	
10/22/2013	0.0028	
4/21/2014	0.0028	
9/30/2014	0.0018 (J)	
4/3/2015	0.0021 (J)	
10/6/2015	<0.01	
4/5/2016	0.00233 (J)	
4/11/2017	<0.01	
10/6/2017	<0.01	
3/23/2018	<0.01	
9/19/2018	<0.01	
3/22/2019		<0.01
9/17/2019		0.0048 (X)
3/13/2020		0.0026 (J)

Prediction Limit

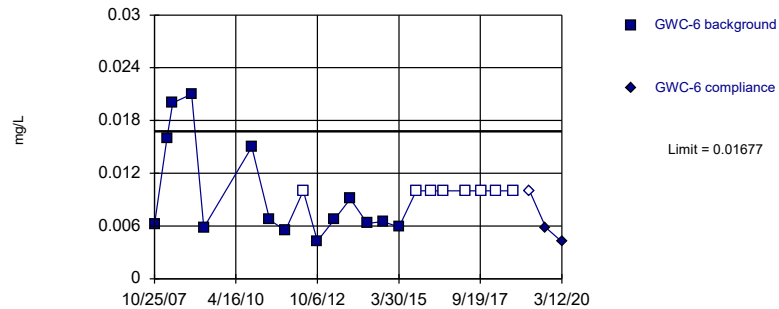
Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	0.016	
10/25/2007	0.061	
11/19/2007	0.053	
1/23/2008	0.14	
3/11/2008	0.13	
5/12/2008	0.11	
12/11/2008	0.04 (J)	
4/15/2009	0.11	
10/9/2009	0.15	
5/4/2010	0.077	
10/12/2010	0.077	
4/28/2011	0.032	
10/19/2011	0.11	
5/2/2012	0.138	
10/9/2012	0.097	
4/11/2013	0.047	
10/16/2013	0.098	
4/23/2014	0.066	
10/3/2014	0.13 (V)	
3/31/2015	0.05	
10/12/2015	0.048	
3/28/2016	0.0534	
8/1/2016	0.055	
4/3/2017	0.0436	
10/3/2017	0.0393	
3/19/2018	<0.034	
9/17/2018	0.03	
3/20/2019		0.032
9/16/2019		0.035
3/16/2020		0.047

Within Limit

Prediction Limit
 Intrawell Parametric

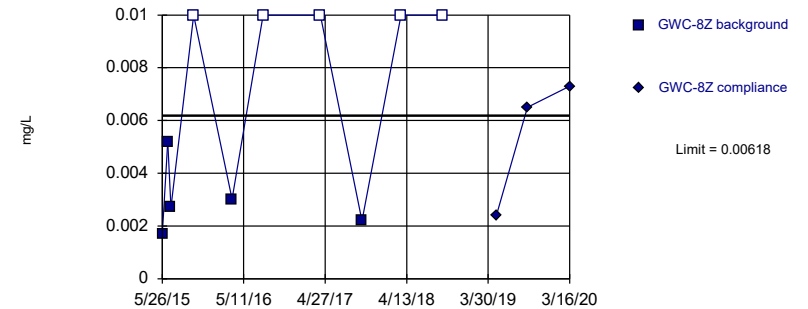


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.08853, Std. Dev.=0.0227, n=22, 36.36% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8863, critical = 0.878. Kappa = 1.805 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

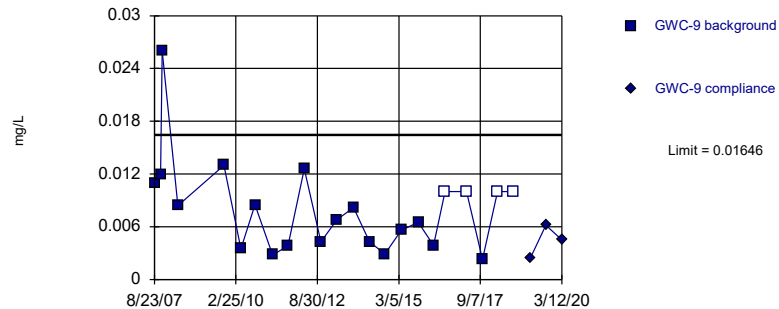


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1413, Std. Dev.=0.01813, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7851, critical = 0.781. Kappa = 2.329 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.08051, Std. Dev.=0.0267, n=23, 17.39% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9286, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/14/2020 10:25 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
10/25/2007	0.0062	
3/11/2008	0.016	
5/14/2008	0.02	
12/11/2008	0.021	
4/23/2009	0.0058 (J)	
10/11/2010	0.015	
4/26/2011	0.0067	
10/18/2011	0.0055	
5/2/2012	<0.01	
10/8/2012	0.0043	
4/10/2013	0.0067	
10/8/2013	0.0091	
4/14/2014	0.0063	
10/3/2014	0.0065 (V)	
4/1/2015	0.0059	
10/9/2015	<0.01	
3/29/2016	<0.01	
8/1/2016	<0.01	
4/6/2017	<0.01	
10/3/2017	<0.01	
3/19/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		0.0058 (J)
3/12/2020		0.0042 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
5/26/2015	0.0017 (J)	
6/18/2015	0.0052 (D)	
7/2/2015	0.0027	
10/8/2015	<0.01	
3/22/2016	0.00302 (J)	
8/2/2016	<0.01	
4/7/2017	<0.01	
10/3/2017	0.0022 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01	
5/6/2019		0.0024 (J)
9/16/2019		0.0065 (J)
3/16/2020		0.0073 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/14/2020 10:26 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
8/23/2007	0.011	
11/1/2007	0.012	
11/19/2007	0.026 (J)	
5/13/2008	0.0084	
10/13/2009	0.013	
4/21/2010	0.0035	
9/29/2010	0.0085	
4/13/2011	0.0028	
10/5/2011	0.0038	
4/4/2012	0.0126	
10/8/2012	0.0043	
4/8/2013	0.0068	
10/9/2013	0.0082	
4/9/2014	0.0043	
9/30/2014	0.0029	
4/2/2015	0.0056	
10/10/2015	0.0065 (D)	
3/30/2016	0.00388 (J)	
8/5/2016	<0.01	
4/6/2017	<0.01	
10/3/2017	0.0023 (J)	
3/20/2018	<0.01	
9/18/2018	<0.01 (D)	
3/21/2019		0.0024 (J)
9/16/2019		0.0062 (J)
3/12/2020		0.0045 (J)

FIGURE F.

Trend Tests Summary Table - Bedrock Wells - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:14 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.001069	-314	-158	Yes	34	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-4RZ (bg)	0.00552	58	44	Yes	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006697	-139	-106	Yes	26	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-13R_13RZ	0.006513	314	151	Yes	33	0	n/a	n/a	0.02	NP

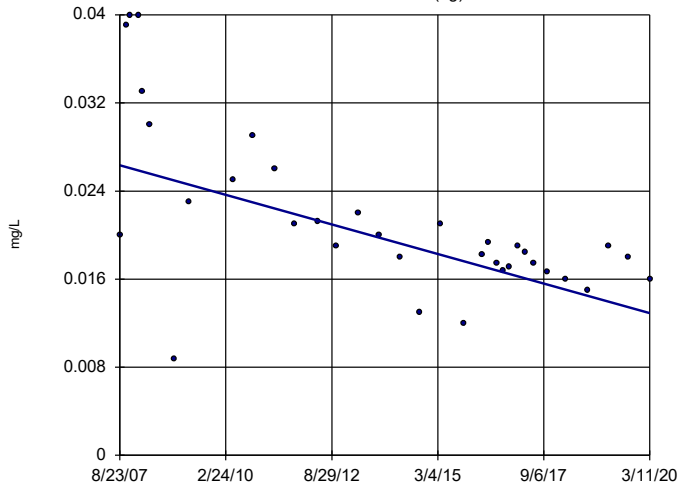
Trend Tests Summary Table - Bedrock Wells - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 10:14 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1 (bg)	-0.001069	-314	-158	Yes	34	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-2 (bg)	0.0005249	56	151	No	33	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-2R (bg)	0.0001336	31	151	No	33	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-4RZ (bg)	0.00552	58	44	Yes	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006697	-139	-106	Yes	26	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-13R_13RZ	0.006513	314	151	Yes	33	0	n/a	n/a	0.02	NP

Sen's Slope Estimator

GWA-1 (bg)

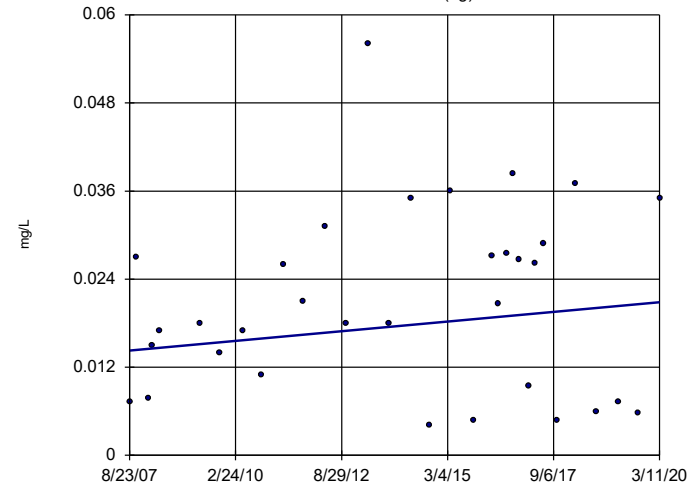


n = 34
 Slope = -0.001069
 units per year.
 Mann-Kendall
 statistic = -314
 critical = -158
 Decreasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-2 (bg)

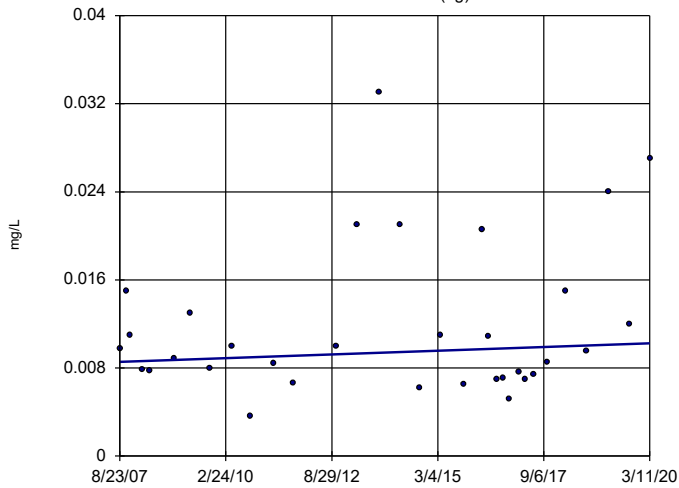


n = 33
 Slope = 0.0005249
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 151
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-2R (bg)

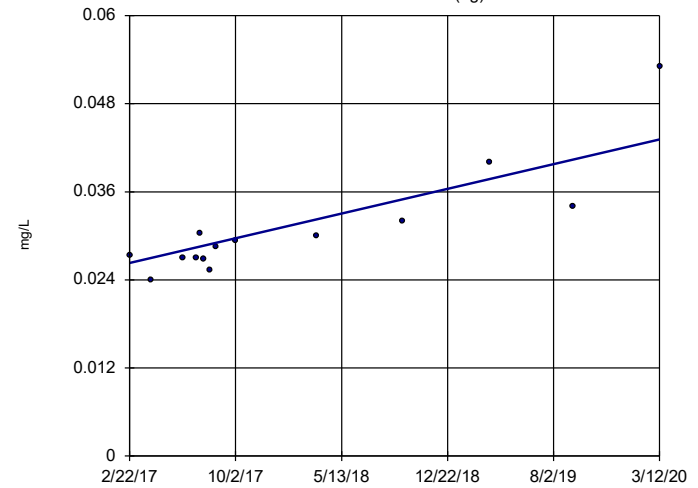


n = 33
 Slope = 0.0001336
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 151
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-4RZ (bg)

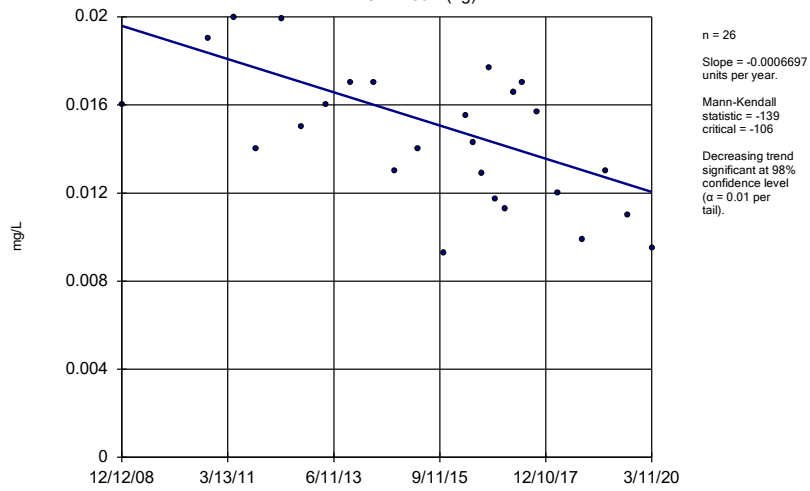


n = 14
 Slope = 0.00552
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 44
 Increasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

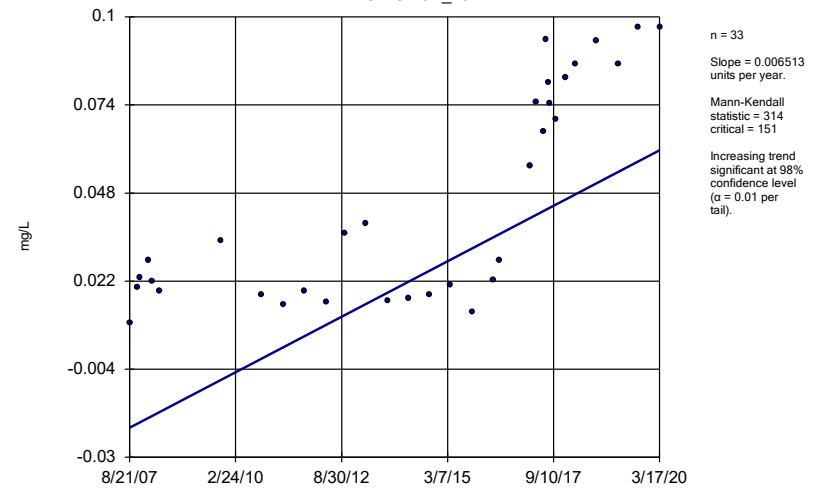
GWA-50R (bg)



Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-13R_13RZ



Constituent: Barium Analysis Run 4/14/2020 10:12 AM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

FIGURE G.

Appendix III Intrawell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Calcium (mg/L)	GWC-5	8.151	n/a	3/16/2020	12.1	Yes	13	1.854	0.3624	0	None	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	16.11	n/a	3/12/2020	16.2	Yes	12	13.73	0.8433	0	None	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-14_14Z	8.012	n/a	3/13/2020	11.1	Yes	12	3.192	1.707	0	None	0.0004426	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Calcium (mg/L)	GWA-1	35.77	n/a	3/11/2020	31.8	No	13	30.12	2.045	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-2	76.67	n/a	3/11/2020	66.6	No	13	21.87	19.84	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-2R	68.55	n/a	3/11/2020	46.8	No	13	4.874	1.233	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-3	2.13	n/a	3/11/2020	1	No	13	1.301	0.3004	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-4RZ	57.67	n/a	3/12/2020	54.2	No	13	48.45	3.34	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-50	4.676	n/a	3/11/2020	1.6	No	13	2.38	0.8311	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWA-50R	14.16	n/a	3/11/2020	1.2	No	13	5.032	3.306	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-10	46.26	n/a	3/12/2020	18.6	No	13	976.2	421.5	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-10R	48.64	n/a	3/12/2020	43.2	No	13	40.21	3.054	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-11	30.68	n/a	3/12/2020	8	No	13	17.71	4.696	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-11R	36.51	n/a	3/12/2020	32.5	No	13	25.31	4.056	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-12	9.786	n/a	3/12/2020	8.1	No	13	8.042	0.6313	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-13	77.34	n/a	3/13/2020	33	No	13	48.64	10.39	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-13R_13RZ	66.28	n/a	3/17/2020	44.9	No	13	43.21	8.352	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-14_14Z	46.16	n/a	3/13/2020	17	No	13	23.01	8.383	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-15_15Z	30.61	n/a	3/13/2020	24.2	No	13	12616	5821	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-15R	62.5	n/a	3/13/2020	41	No	13	n/a	n/a	0	n/a	0.009692	NP Intra (normality) 1 of 2	
Calcium (mg/L)	GWC-5	8.151	n/a	3/16/2020	12.1	Yes	13	1.854	0.3624	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-6	16.11	n/a	3/12/2020	16.2	Yes	12	13.73	0.8433	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-6RZ	15.76	n/a	3/12/2020	9.3	No	12	11.35	1.561	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-7Z	27.62	n/a	3/12/2020	26.4	No	13	23.25	1.58	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-8RR	25.71	n/a	3/12/2020	21.8	No	13	22.17	1.281	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-8Z	27.75	n/a	3/16/2020	19.4	No	12	21.09	2.357	0	None	0.0004426	Param Intra 1 of 2	
Calcium (mg/L)	GWC-9	33.72	n/a	3/12/2020	1.8	No	13	10.16	8.529	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-1	2.705	n/a	3/11/2020	0.94	No	13	1.707	0.3615	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-2	171.3	n/a	3/11/2020	131	No	13	45.47	45.57	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-2R	103.2	n/a	3/11/2020	34.3	No	13	1.076	1.289	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-3	1.359	n/a	3/11/2020	0.5ND	No	13	0.7044	0.2369	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-4RZ	29.81	n/a	3/12/2020	20.8	No	14	21.19	3.193	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-50	1.082	n/a	3/11/2020	0.5ND	No	13	0.692	0.1413	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWA-50R	1.77	n/a	3/11/2020	0.85	No	13	1.035	0.2659	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-10	2.331	n/a	3/12/2020	1.3	No	13	1.414	0.332	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-10R	2.202	n/a	3/12/2020	0.99	No	13	1.539	0.2398	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-11	3.864	n/a	3/12/2020	1.8	No	13	2.667	0.4333	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-11R	4.815	n/a	3/12/2020	1.5	No	13	2.798	0.7303	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-12	0.8022	n/a	3/12/2020	0.5ND	No	13	0.6222	0.09903	23.08	Kaplan-Meier	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-13	205.7	n/a	3/13/2020	16.9	No	13	84.47	43.88	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-13R_13RZ	108.2	n/a	3/17/2020	72.1	No	13	53.11	19.95	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-14_14Z	8.012	n/a	3/13/2020	11.1	Yes	12	3.192	1.707	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-15_15Z	14.01	n/a	3/13/2020	1.1	No	13	4.438	3.464	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-15R	14.72	n/a	3/13/2020	8.8	No	13	9.142	2.02	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-5	2.23	n/a	3/16/2020	1.1	No	13	1.506	0.2621	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-6	4.05	n/a	3/12/2020	2.1	No	13	2.394	0.5998	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-6RZ	3.575	n/a	3/12/2020	1.4	No	13	2.112	0.5298	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-7Z	2.373	n/a	3/12/2020	1.7	No	13	0.8731	0.5429	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-8RR	2.043	n/a	3/12/2020	1.8	No	13	1.043	0.3621	7.692	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-8Z	4.386	n/a	3/16/2020	0.66	No	13	2.324	0.7467	0	None	0.0004426	Param Intra 1 of 2	
Sulfate, as SO4 (mg/L)	GWC-9	4.885	n/a	3/12/2020	1.1	No	13	2.372	0.9101	7.692	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-1	192.9	n/a	3/11/2020	172	No	13	151.7	14.9	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-2	370	n/a	3/11/2020	309	No	13	122.7	89.51	7.692	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-2R	250.2	n/a	3/11/2020	170	No	13	120	47.12	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-3	58.82	n/a	3/11/2020	24	No	13	26.41	11.74	38.46	Kaplan-Meier	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-4RZ	444.4	n/a	3/12/2020	247	No	13	262.5	65.86	0	None	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-50	50.58	n/a	3/11/2020	17	No	13	23.65	9.751	30.77	Kaplan-Meier	0.0004426	Param Intra 1 of 2	
Total Dissolved Solids (mg/l)	GWA-50R	107.3	n/a	3/11/2020	24	No	13	37	25.45	23.08	Kaplan-Meier	0.0004426	Param Intra 1 of 2	

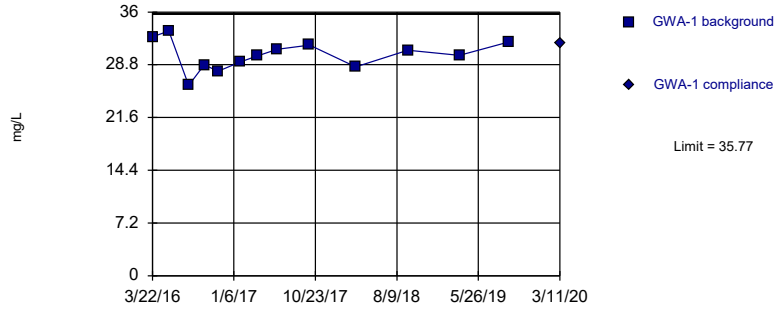
Appendix III Intrawell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Total Dissolved Solids (mg/l)	GWC-10	203.4	n/a	3/12/2020	63	No	13	133.3	25.39	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-10R	224.9	n/a	3/12/2020	81	No	13	161	23.15	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11	157.3	n/a	3/12/2020	96	No	13	95.08	22.54	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11R	178.8	n/a	3/12/2020	125	No	13	128	18.4	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-12	114	n/a	3/12/2020	64	No	13	4.084	0.2771	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13	424.3	n/a	3/13/2020	143	No	13	239.6	66.87	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13R_13RZ	380.1	n/a	3/17/2020	256	No	13	67659	27810	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-14_14Z	287.4	n/a	3/13/2020	59	No	13	123.6	59.29	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15_15Z	233.3	n/a	3/13/2020	76	No	13	125.5	39.04	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15R	247.9	n/a	3/13/2020	169	No	13	166.2	29.56	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-5	124	n/a	3/16/2020	20	No	13	43.54	29.12	15.38	Kaplan-Meier	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6	169.5	n/a	3/12/2020	42	No	13	9.238	1.368	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6RZ	163.6	n/a	3/12/2020	22	No	13	82	29.54	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-7Z	174.7	n/a	3/12/2020	86	No	13	125.7	17.74	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8RR	132.3	n/a	3/12/2020	84	No	13	108.6	8.559	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8Z	178.6	n/a	3/16/2020	76	No	13	121.7	20.62	0	None	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-9	187.9	n/a	3/12/2020	16	No	13	64.54	44.65	0	None	0.0004426	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

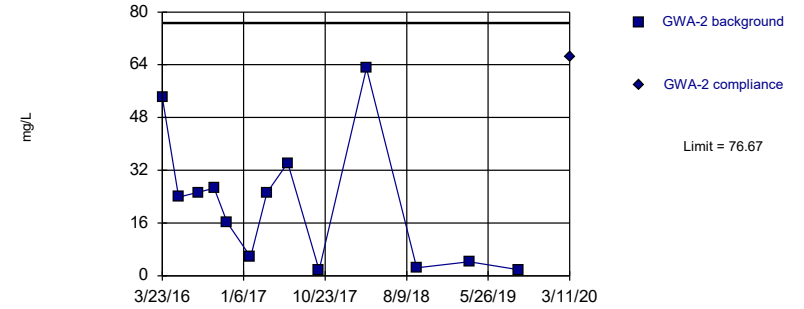


Background Data Summary: Mean=30.12, Std. Dev.=2.045, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9874, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

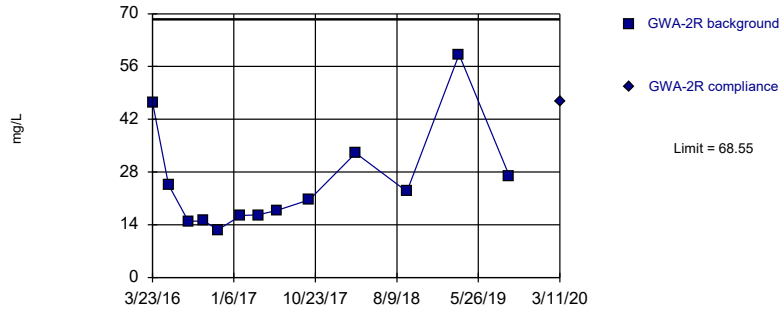


Background Data Summary: Mean=21.87, Std. Dev.=19.84, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8769, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

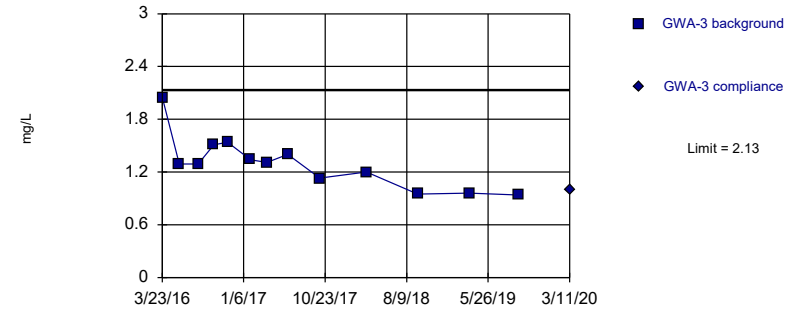


Background Data Summary (based on square root transformation): Mean=4.874, Std. Dev.=1.233, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.301, Std. Dev.=0.3004, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8984, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
3/22/2016	32.6	
5/19/2016	33.4	
7/29/2016	26	
9/23/2016	28.8	
11/9/2016	27.9	
1/30/2017	29.2	
3/30/2017	30	
6/9/2017	30.9	
10/2/2017	31.5	
3/16/2018	28.5	
9/17/2018	30.8	
3/20/2019	30.1	
9/12/2019	31.9	
3/11/2020		31.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
3/23/2016	54.1	
5/20/2016	23.9	
7/29/2016	25.3	
9/23/2016	26.6	
11/9/2016	16.1	
1/31/2017	5.68	
3/30/2017	25.2	
6/12/2017	34.2	
10/2/2017	1.69	
3/19/2018	63	
9/14/2018	2.4	
3/20/2019	4.3	
9/12/2019	1.8	
3/11/2020		66.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
3/23/2016	46.5	
5/19/2016	24.6	
7/29/2016	14.9	
9/22/2016	15	
11/10/2016	12.6	
1/31/2017	16.5	
4/3/2017	16.6	
6/9/2017	17.8	
10/2/2017	20.6	
3/16/2018	33	
9/14/2018	22.8 (J)	
3/19/2019	59.2	
9/13/2019	27	
3/11/2020		46.8

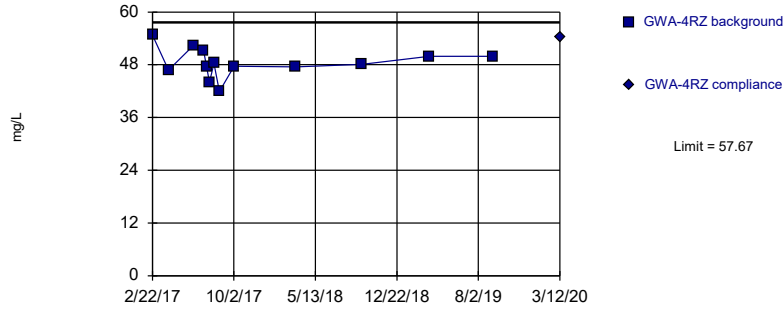
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
3/23/2016	2.05	
5/23/2016	1.29	
7/29/2016	1.29	
9/22/2016	1.51	
11/10/2016	1.54	
1/31/2017	1.34	
3/30/2017	1.31	
6/12/2017	1.4	
10/4/2017	1.13	
3/19/2018	1.2	
9/17/2018	0.95	
3/20/2019	0.96	
9/13/2019	0.94	
3/11/2020		1

Within Limit

Prediction Limit
Intrawell Parametric

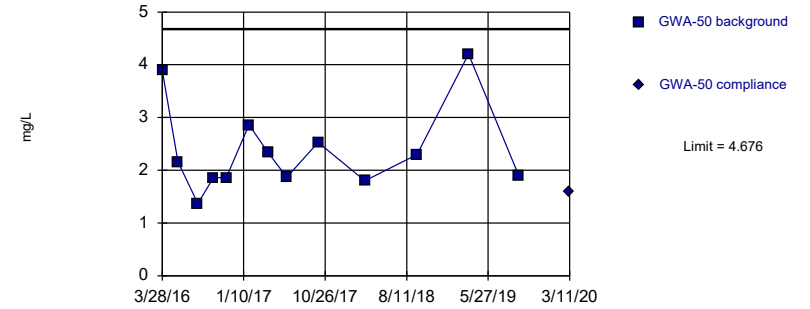


Background Data Summary: Mean=48.45, Std. Dev.=3.34, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9703, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

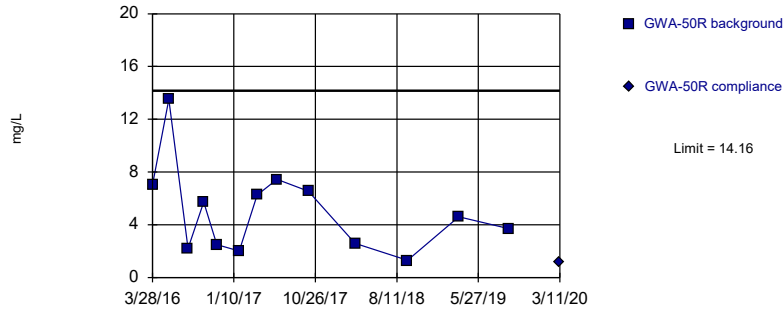


Background Data Summary: Mean=2.38, Std. Dev.=0.8311, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.841, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

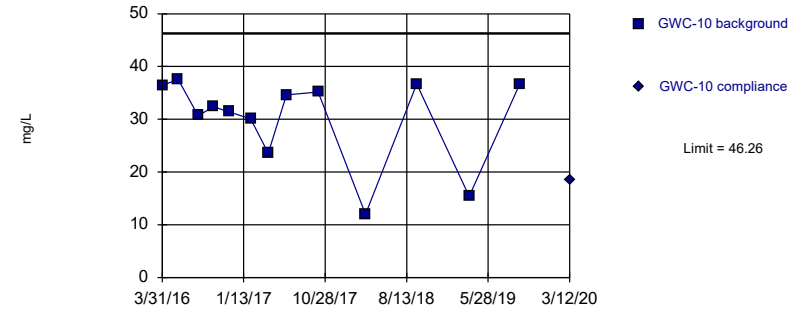


Background Data Summary: Mean=5.032, Std. Dev.=3.306, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8749, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=976.2, Std. Dev.=421.5, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	54.7	
4/7/2017	46.8	
6/14/2017	52.4	
7/12/2017	51.1	
7/20/2017	47.5	
7/28/2017	44	
8/9/2017	48.3	
8/24/2017	41.9	
10/3/2017	47.7	
3/21/2018	47.5	
9/18/2018	48.1	
3/21/2019	49.9	
9/12/2019	49.9	
3/12/2020		54.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
3/28/2016	3.89	
5/23/2016	2.16	
8/1/2016	1.37	
9/26/2016	1.86	
11/10/2016	1.86	
1/30/2017	2.86	
4/7/2017	2.34	
6/12/2017	1.87	
10/2/2017	2.53	
3/16/2018	1.8	
9/17/2018	2.3	
3/19/2019	4.2	
9/13/2019	1.9	
3/11/2020		1.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

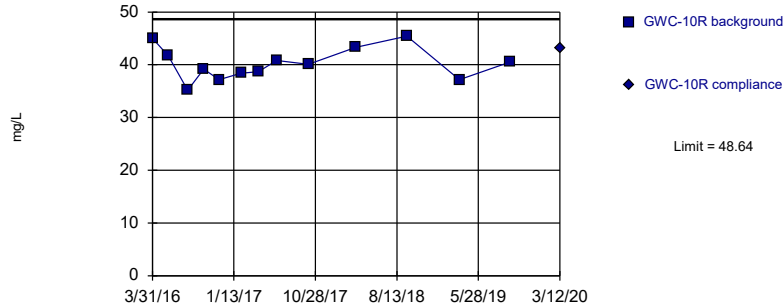
	GWA-50R	GWA-50R
3/28/2016	7.04	
5/25/2016	13.5	
8/1/2016	2.2	
9/26/2016	5.72	
11/11/2016	2.5	
1/30/2017	2.01	
4/3/2017	6.26	
6/12/2017	7.44	
10/2/2017	6.55	
3/16/2018	2.6	
9/18/2018	1.3	
3/19/2019	4.6	
9/12/2019	3.7	
3/11/2020		1.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
3/31/2016	36.4	
5/26/2016	37.6	
8/5/2016	30.7	
9/28/2016	32.4	
11/22/2016	31.4	
2/7/2017	30.1	
4/10/2017	23.6	
6/14/2017	34.6	
10/4/2017	35.2	
3/20/2018	12 (J)	
9/18/2018	36.7	
3/22/2019	15.4 (J)	
9/17/2019	36.7	
3/12/2020		18.6

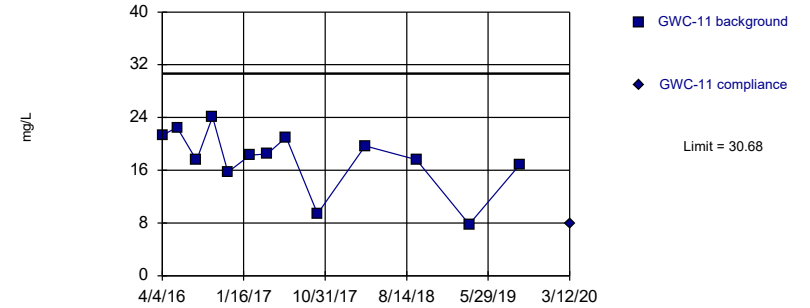
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=40.21, Std. Dev.=3.054, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9658, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

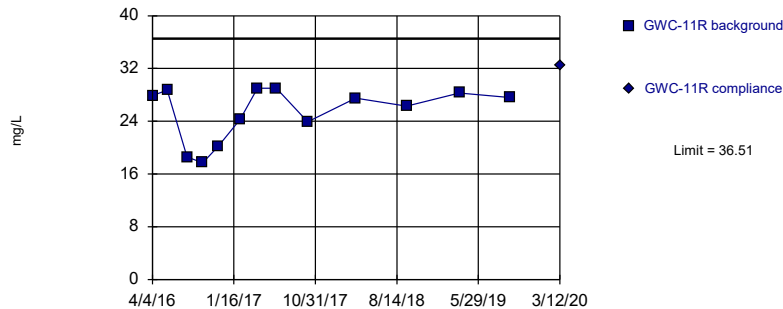
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=17.71, Std. Dev.=4.696, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

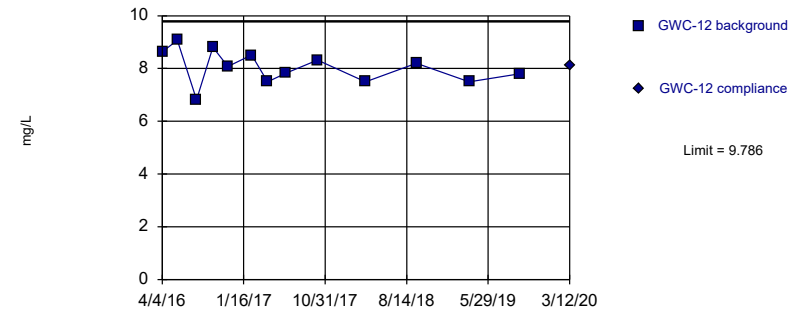
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=25.31, Std. Dev.=4.056, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8273, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=8.042, Std. Dev.=0.6313, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
3/31/2016	45	
5/26/2016	41.7	
8/3/2016	35.2	
9/28/2016	39.2	
11/22/2016	37.2	
2/7/2017	38.4	
4/10/2017	38.7	
6/14/2017	40.8	
10/4/2017	40.1	
3/21/2018	43.3	
9/18/2018	45.4	
3/22/2019	37.2	
9/17/2019	40.5	
3/12/2020		43.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
4/4/2016	21.3	
5/26/2016	22.5	
8/3/2016	17.5	
9/28/2016	24.1	
11/22/2016	15.7	
2/8/2017	18.3	
4/10/2017	18.5	
6/15/2017	21	
10/4/2017	9.4	
3/21/2018	19.7 (J)	
9/18/2018	17.6 (J)	
3/23/2019	7.8	
9/17/2019	16.8	
3/12/2020		8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
4/4/2016	27.9	
5/26/2016	28.7	
8/4/2016	18.6	
9/28/2016	17.7	
11/22/2016	20.2	
2/8/2017	24.3	
4/10/2017	29	
6/15/2017	29	
10/4/2017	23.9	
3/22/2018	27.5	
9/18/2018	26.3	
3/23/2019	28.3	
9/17/2019	27.6	
3/12/2020		32.5

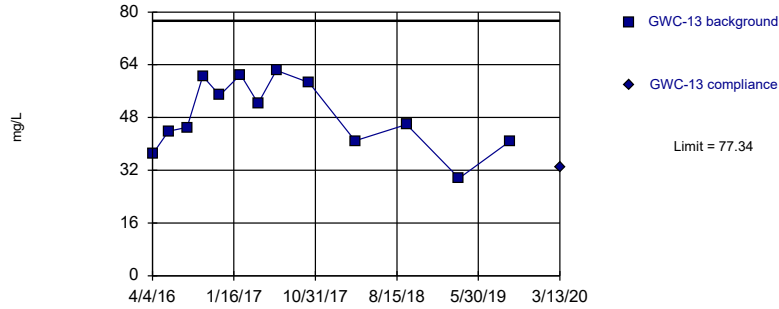
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
4/4/2016	8.63	
5/27/2016	9.07	
8/3/2016	6.82	
9/30/2016	8.8	
11/22/2016	8.08	
2/13/2017	8.51	
4/11/2017	7.5	
6/14/2017	7.82	
10/4/2017	8.32	
3/22/2018	7.5	
9/18/2018	8.2	
3/23/2019	7.5	
9/17/2019	7.8	
3/12/2020		8.1

Within Limit

Prediction Limit
Intrawell Parametric

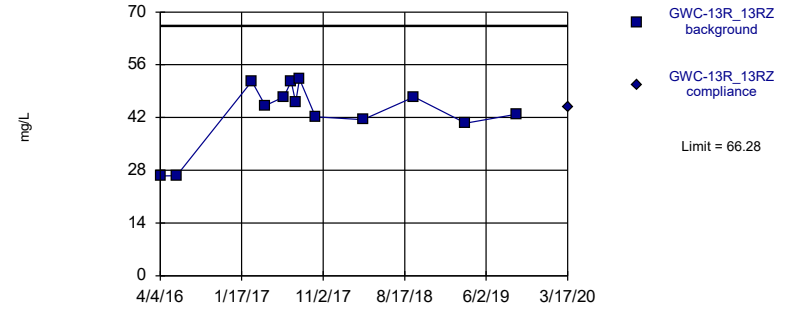


Background Data Summary: Mean=48.64, Std. Dev.=10.39, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

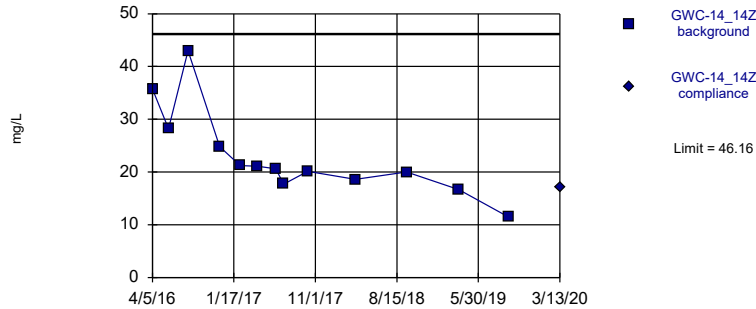


Background Data Summary: Mean=43.21, Std. Dev.=8.352, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8424, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

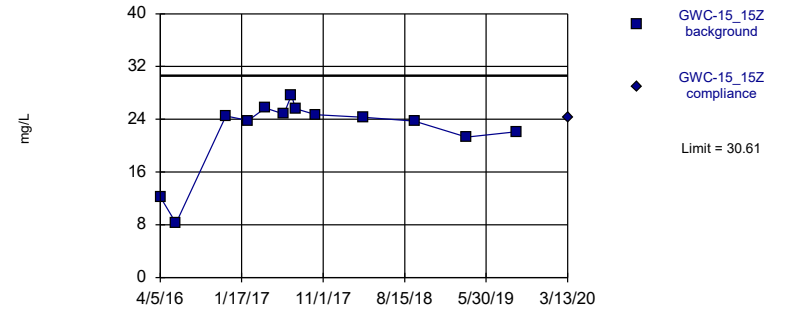


Background Data Summary: Mean=23.01, Std. Dev.=8.383, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8663, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=12616, Std. Dev.=5821, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8755, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
4/4/2016	36.9	
5/31/2016	43.9	
8/4/2016	45	
9/29/2016	60.5	
11/28/2016	54.7	
2/9/2017	61	
4/12/2017	52.3	
6/16/2017	62.3	
10/9/2017	58.6	
3/21/2018	40.9	
9/19/2018	45.9	
3/23/2019	29.6	
9/18/2019	40.7	
3/13/2020		33

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	26.5	
6/1/2016	26.6	
2/22/2017	51.6	
4/11/2017	45.2	
6/16/2017	47.5	
7/12/2017	51.6	
7/28/2017	46	
8/10/2017	52.2	
10/6/2017	42.2	
3/23/2018	41.4	
9/20/2018	47.5	
3/22/2019	40.5	
9/18/2019	42.9	
3/17/2020		44.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	35.7	
6/1/2016	28.2	
8/9/2016	43	
11/28/2016	24.8	
2/9/2017	21.2	
4/11/2017	21.1	
6/14/2017	20.6	
7/12/2017	17.7	
10/5/2017	20.1	
3/22/2018	18.6 (J)	
9/19/2018	20 (J)	
3/22/2019	16.7 (J)	
9/17/2019	11.4	
3/13/2020		17

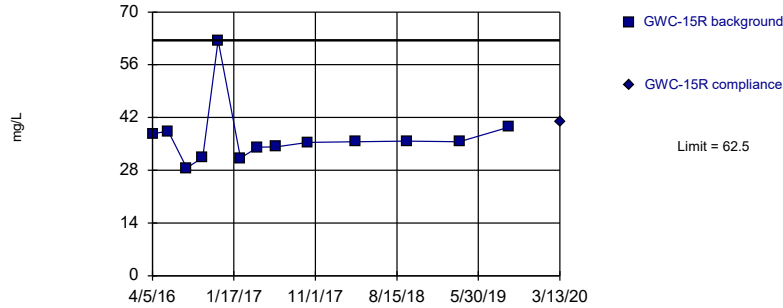
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	12.2	
5/31/2016	8.24	
11/23/2016	24.5	
2/10/2017	23.8	
4/11/2017	25.7	
6/15/2017	24.8	
7/12/2017	27.7	
7/26/2017	25.6	
10/6/2017	24.7	
3/23/2018	24.3 (J)	
9/19/2018	23.7 (J)	
3/22/2019	21.3 (J)	
9/17/2019	22.1	
3/13/2020		24.2

Within Limit

Prediction Limit
Intrawell Non-parametric

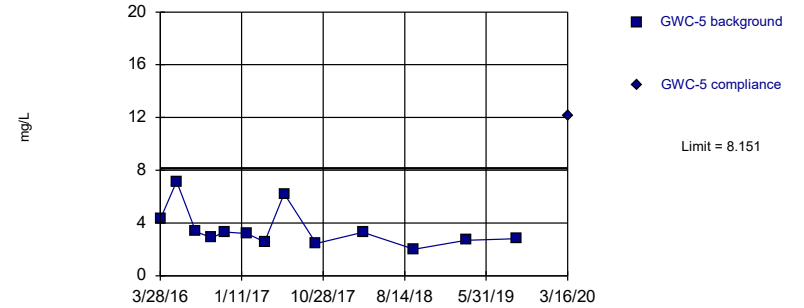


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

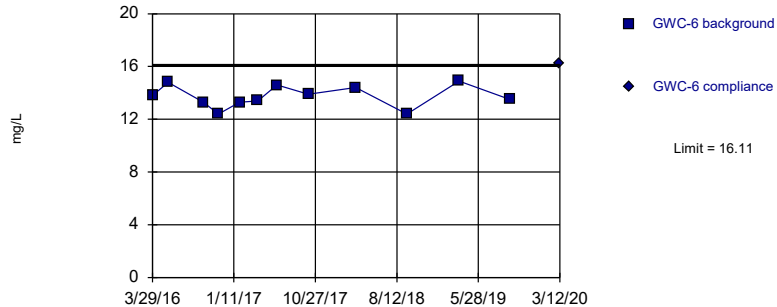


Background Data Summary (based on square root transformation): Mean=1.854, Std. Dev.=0.3624, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8414, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

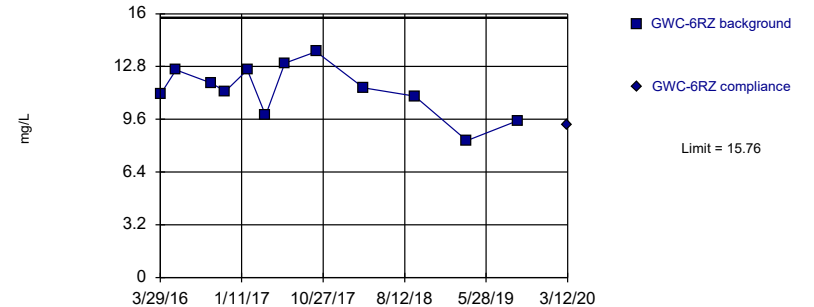


Background Data Summary: Mean=13.73, Std. Dev.=0.8433, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.933, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=11.35, Std. Dev.=1.561, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
4/5/2016	37.7	
5/31/2016	38.4	
8/4/2016	28.6	
9/29/2016	31.4	
11/23/2016	62.5	
2/10/2017	31.2	
4/12/2017	34.1	
6/15/2017	34.2	
10/6/2017	35.4	
3/23/2018	35.6	
9/19/2018	35.7	
3/25/2019	35.6	
9/17/2019	39.5	
3/13/2020		41

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
3/28/2016	4.29	
5/25/2016	7.15	
8/1/2016	3.35	
9/27/2016	2.89	
11/11/2016	3.33	
1/31/2017	3.21	
4/3/2017	2.57	
6/12/2017	6.22	
10/3/2017	2.45	
3/19/2018	3.3	
9/17/2018	2	
3/20/2019	2.7	
9/16/2019	2.8	
3/16/2020		12.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
3/29/2016	13.8	
5/24/2016	14.8	
9/26/2016	13.3	
11/18/2016	12.4	
2/1/2017	13.3	
4/6/2017	13.4	
6/13/2017	14.6	
10/3/2017	13.9	
3/19/2018	14.4 (J)	
9/17/2018	12.4 (J)	
3/21/2019	14.9 (J)	
9/16/2019	13.5	
3/12/2020		16.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	11.1	
5/24/2016	12.6	
9/26/2016	11.8	
11/14/2016	11.3	
2/1/2017	12.6	
4/6/2017	9.84	
6/13/2017	13	
10/3/2017	13.7	
3/20/2018	11.5 (J)	
9/17/2018	11 (J)	
3/21/2019	8.3	
9/16/2019	9.5	
3/12/2020		9.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	25.7	
8/2/2016	22.9	
9/27/2016	22.2	
11/21/2016	22.1	
2/1/2017	21.7	
4/6/2017	21.4	
6/13/2017	24.4	
7/14/2017	24.8	
10/3/2017	23.6	
3/20/2018	22.9 (J)	
9/18/2018	20.8 (J)	
3/21/2019	25.2	
9/13/2019	24.6	
3/12/2020		26.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	22.2	
5/24/2016	25.2	
8/2/2016	20.8	
9/27/2016	23.1	
11/22/2016	22.3	
2/6/2017	21.4	
4/6/2017	21.1	
6/14/2017	22.1	
10/4/2017	23.1	
3/21/2018	22.5 (J)	
9/18/2018	20.8 (J)	
3/27/2019	20.6 (J)	
9/16/2019	23	
3/12/2020		21.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	25.1	
5/25/2016	23.7	
8/2/2016	21.5	
9/26/2016	21.4	
11/21/2016	21	
2/3/2017	20	
6/13/2017	21.5	
10/3/2017	22.8	
3/20/2018	20.3 (J)	
9/18/2018	15.5 (J)	
5/6/2019	20 (J)	
9/16/2019	20.3	
3/16/2020		19.4

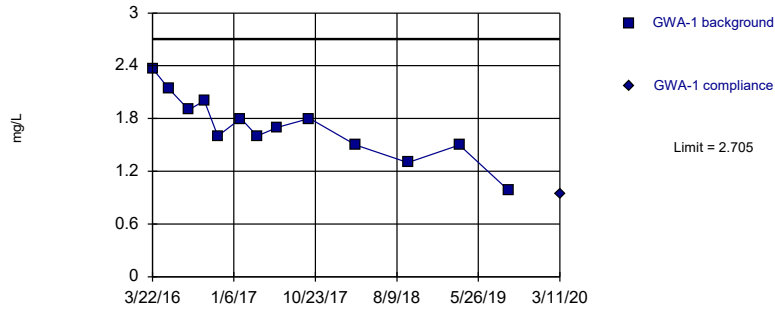
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
3/30/2016	9.07	
5/26/2016	15.8	
8/5/2016	20.5	
9/28/2016	24.9	
11/21/2016	23.4	
2/6/2017	1.7	
4/6/2017	1.6	
6/13/2017	3.82	
10/3/2017	9.77	
3/20/2018	1.4	
9/18/2018	3.35 (D)	
3/21/2019	4.8	
9/16/2019	12	
3/12/2020		1.8

Within Limit

Prediction Limit
Intrawell Parametric

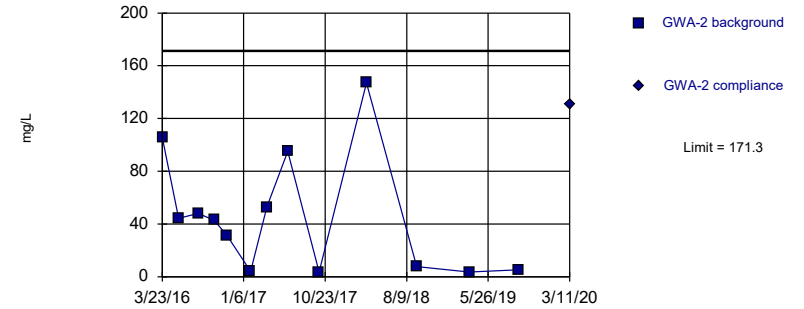


Background Data Summary: Mean=1.707, Std. Dev.=0.3615, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9884, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

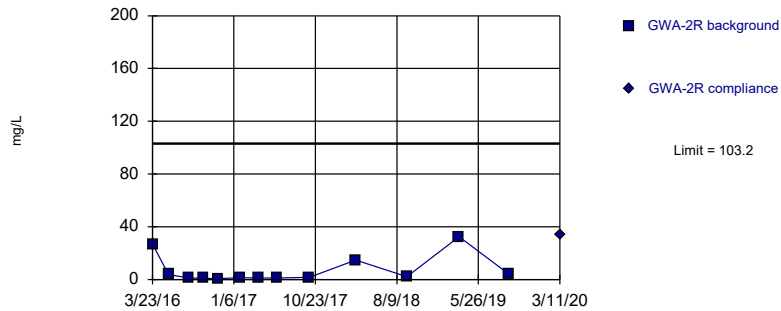


Background Data Summary: Mean=45.47, Std. Dev.=45.57, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8555, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



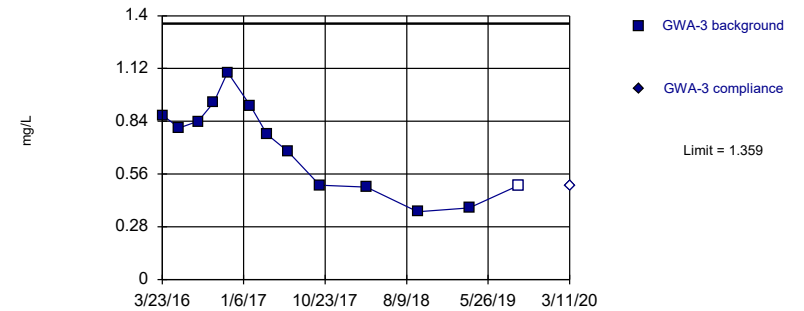
Background Data Summary (based on natural log transformation): Mean=1.076, Std. Dev.=1.289, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8468, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.7044, Std. Dev.=0.2369, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
3/22/2016	2.3685	
5/19/2016	2.14	
7/29/2016	1.9	
9/23/2016	2	
11/9/2016	1.6	
1/30/2017	1.8	
3/30/2017	1.6	
6/9/2017	1.7	
10/2/2017	1.8	
3/16/2018	1.5	
9/17/2018	1.3 (D)	
3/20/2019	1.5	
9/12/2019	0.98 (J)	
3/11/2020		0.94 (J)

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
3/23/2016	105.552	
5/20/2016	44.3	
7/29/2016	48	
9/23/2016	43	
11/9/2016	31	
1/31/2017	4.2	
3/30/2017	53	
6/12/2017	95	
10/2/2017	3.5	
3/19/2018	147	
9/14/2018	7.7	
3/20/2019	3.6	
9/12/2019	5.2	
3/11/2020		131

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
3/23/2016	26.8249	
5/19/2016	3.81	
7/29/2016	1.1	
9/22/2016	0.96 (J)	
11/10/2016	0.72 (J)	
1/31/2017	1.5	
4/3/2017	1.3	
6/9/2017	1.2	
10/2/2017	1.7	
3/16/2018	14.8 (J)	
9/14/2018	2.1	
3/19/2019	32.5 (J)	
9/13/2019	3.8	
3/11/2020		34.3

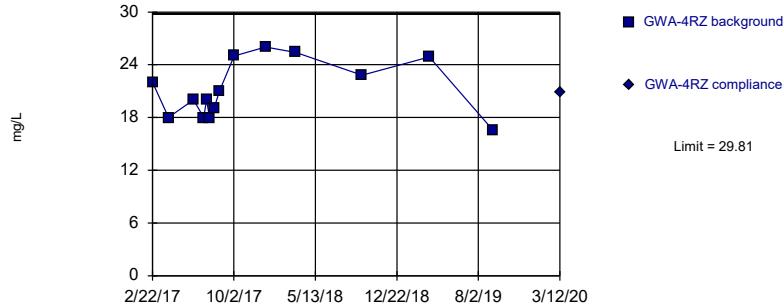
Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
3/23/2016	0.8724 (J)	
5/23/2016	0.805 (J)	
7/29/2016	0.84 (J)	
9/22/2016	0.94 (J)	
11/10/2016	1.1	
1/31/2017	0.92 (J)	
3/30/2017	0.77 (J)	
6/12/2017	0.68 (J)	
10/4/2017	0.5 (J)	
3/19/2018	0.49 (J)	
9/17/2018	0.36 (J)	
3/20/2019	0.38 (J)	
9/13/2019	<1	
3/11/2020		<1

Within Limit

Prediction Limit
Intrawell Parametric

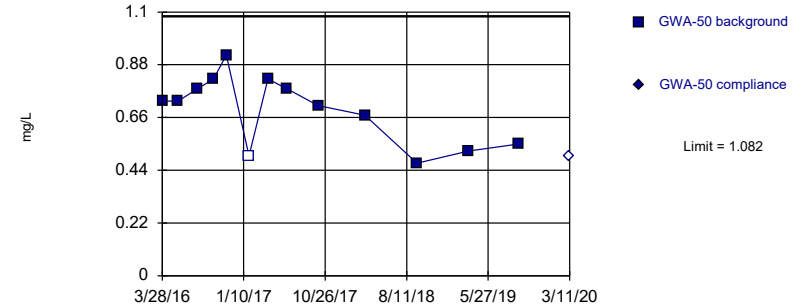


Background Data Summary: Mean=21.19, Std. Dev.=3.193, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.921, critical = 0.825. Kappa = 2.7 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

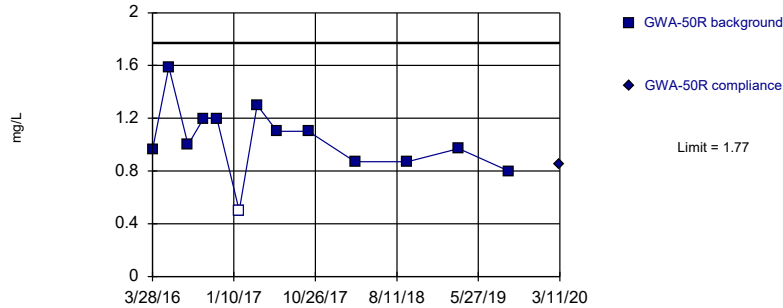


Background Data Summary: Mean=0.692, Std. Dev.=0.1413, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

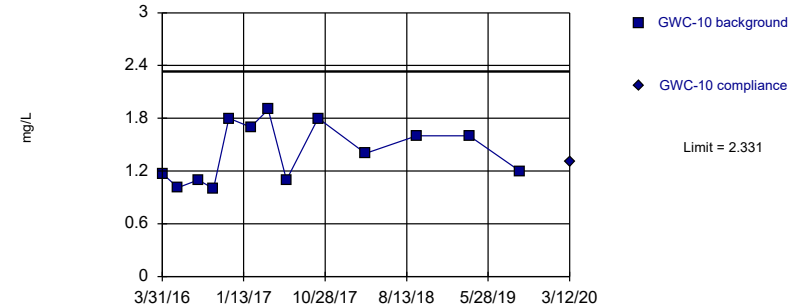


Background Data Summary: Mean=1.035, Std. Dev.=0.2659, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9736, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.414, Std. Dev.=0.332, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8902, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:09 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	22	
4/7/2017	18	
6/14/2017	20	
7/12/2017	18	
7/20/2017	20	
7/28/2017	18	
8/9/2017	19	
8/24/2017	21	
10/3/2017	25	
12/28/2017	26 (Y)	
3/21/2018	25.4	
9/18/2018	22.8	
3/21/2019	24.9	
9/12/2019	16.5	
3/12/2020		20.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
3/28/2016	0.7283 (J)	
5/23/2016	0.728 (J)	
8/1/2016	0.78 (J)	
9/26/2016	0.82 (J)	
11/10/2016	0.92 (J)	
1/30/2017	<1	
4/7/2017	0.82 (J)	
6/12/2017	0.78 (J)	
10/2/2017	0.71 (J)	
3/16/2018	0.67 (J)	
9/17/2018	0.47 (J)	
3/19/2019	0.52 (J)	
9/13/2019	0.55 (J)	
3/11/2020		<1

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
3/28/2016	0.9594 (J)	
5/25/2016	1.59	
8/1/2016	1	
9/26/2016	1.2	
11/11/2016	1.2	
1/30/2017	<1	
4/3/2017	1.3	
6/12/2017	1.1	
10/2/2017	1.1	
3/16/2018	0.87 (J)	
9/18/2018	0.87 (J)	
3/19/2019	0.97 (J)	
9/12/2019	0.8 (J)	
3/11/2020		0.85 (J)

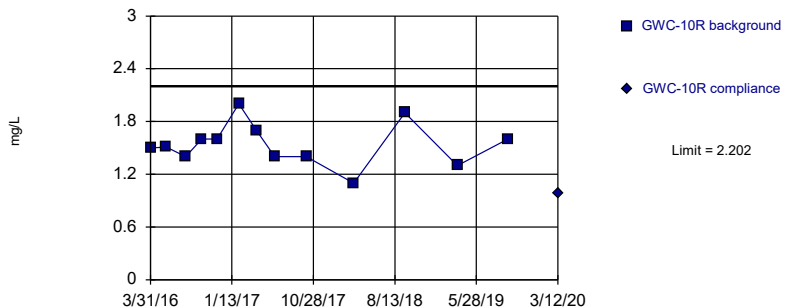
Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
3/31/2016	1.17	
5/26/2016	1.01	
8/5/2016	1.1	
9/28/2016	1	
11/22/2016	1.8	
2/7/2017	1.7	
4/10/2017	1.9	
6/14/2017	1.1	
10/4/2017	1.8	
3/20/2018	1.4	
9/18/2018	1.6	
3/22/2019	1.6	
9/17/2019	1.2	
3/12/2020		1.3

Within Limit

Prediction Limit Intrawell Parametric

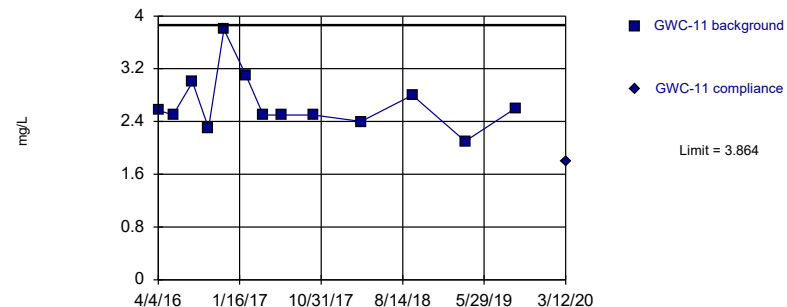


Background Data Summary: Mean=1.539, Std. Dev.=0.2398, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

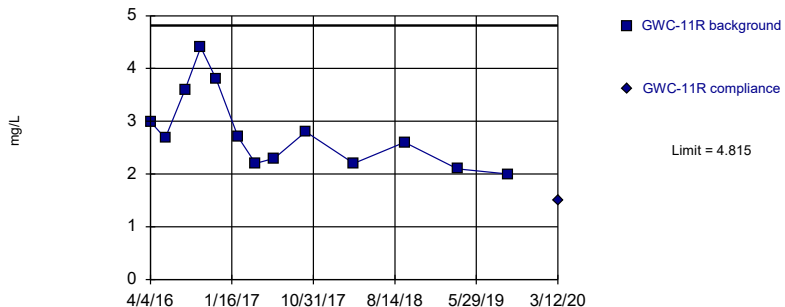


Background Data Summary: Mean=2.667, Std. Dev.=0.4333, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8549, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric



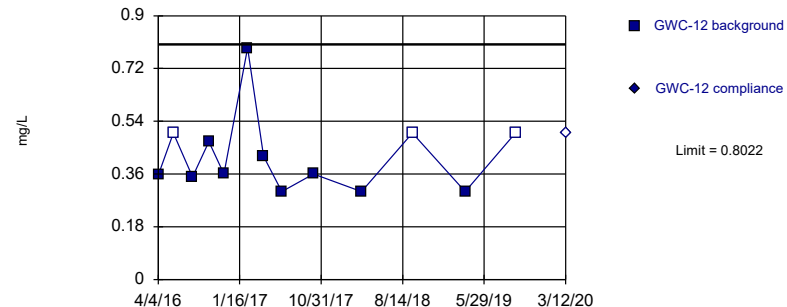
Background Data Summary: Mean=2.798, Std. Dev.=0.7303, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8882, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.6222, Std. Dev.=0.09903, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8508, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
3/31/2016	1.5	
5/26/2016	1.51	
8/3/2016	1.4	
9/28/2016	1.6	
11/22/2016	1.6	
2/7/2017	2	
4/10/2017	1.7	
6/14/2017	1.4	
10/4/2017	1.4	
3/21/2018	1.1	
9/18/2018	1.9	
3/22/2019	1.3	
9/17/2019	1.6	
3/12/2020		0.99 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
4/4/2016	2.57	
5/26/2016	2.5	
8/3/2016	3	
9/28/2016	2.3	
11/22/2016	3.8	
2/8/2017	3.1	
4/10/2017	2.5	
6/15/2017	2.5	
10/4/2017	2.5	
3/21/2018	2.4	
9/18/2018	2.8	
3/23/2019	2.1	
9/17/2019	2.6	
3/12/2020		1.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
4/4/2016	2.99	
5/26/2016	2.68	
8/4/2016	3.6	
9/28/2016	4.4	
11/22/2016	3.8	
2/8/2017	2.7	
4/10/2017	2.2	
6/15/2017	2.3	
10/4/2017	2.8	
3/22/2018	2.2	
9/18/2018	2.6	
3/23/2019	2.1	
9/17/2019	2	
3/12/2020		1.5

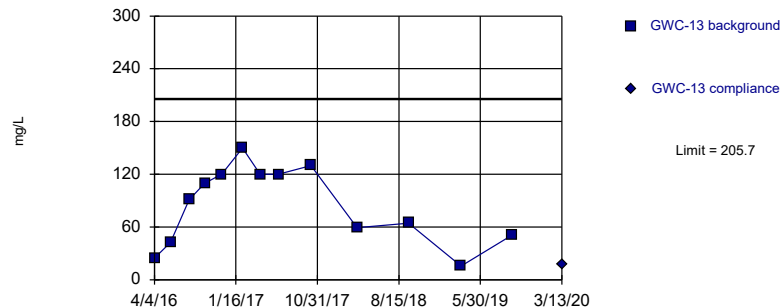
Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
4/4/2016	0.3574 (J)	
5/27/2016	<1	
8/3/2016	0.35 (J)	
9/30/2016	0.47 (J)	
11/22/2016	0.36 (J)	
2/13/2017	0.79 (J)	
4/11/2017	0.42 (J)	
6/14/2017	0.3 (J)	
10/4/2017	0.36 (J)	
3/22/2018	0.3 (J)	
9/18/2018	<1	
3/23/2019	0.3 (J)	
9/17/2019	<1 (D)	
3/12/2020		<1

Within Limit

Prediction Limit
Intrawell Parametric

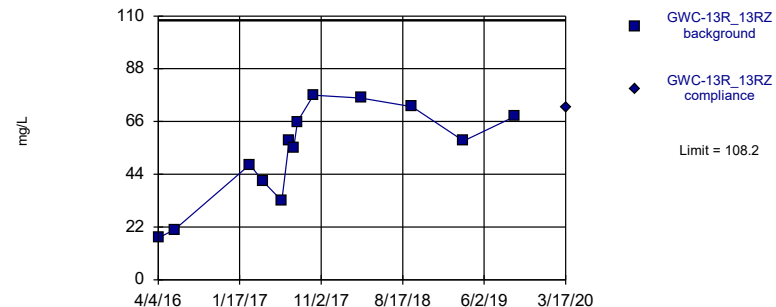


Background Data Summary: Mean=84.47, Std. Dev.=43.88, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9315, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

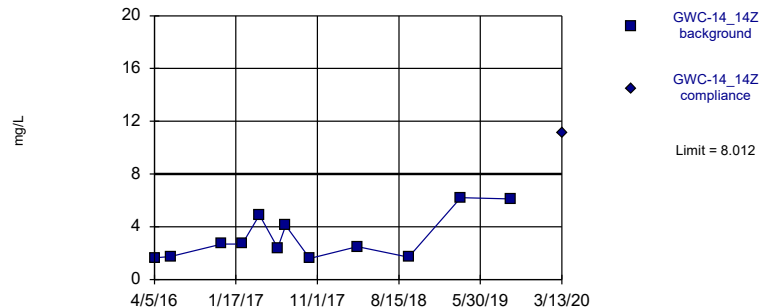


Background Data Summary: Mean=53.11, Std. Dev.=19.95, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9225, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

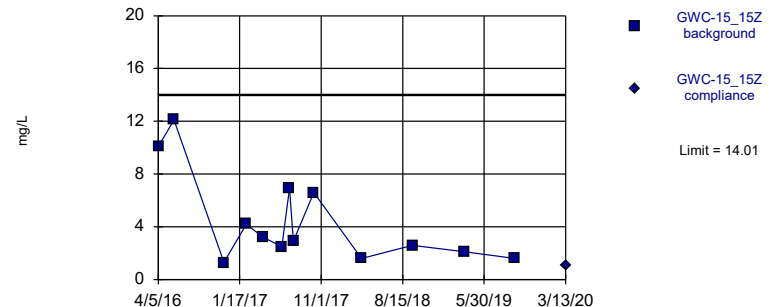


Background Data Summary: Mean=3.192, Std. Dev.=1.707, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8292, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=4.438, Std. Dev.=3.464, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8219, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
4/4/2016	24.8	
5/31/2016	42.5	
8/4/2016	91	
9/29/2016	110	
11/28/2016	120	
2/9/2017	150	
4/12/2017	120	
6/16/2017	120	
10/9/2017	130	
3/21/2018	59.1	
9/19/2018	64.5	
3/23/2019	15.5 (J)	
9/18/2019	50.7	
3/13/2020		16.9

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	17.5	
6/1/2016	20.9	
2/22/2017	48	
4/11/2017	41	
6/16/2017	33	
7/12/2017	58	
7/28/2017	55	
8/10/2017	66	
10/6/2017	77	
3/23/2018	75.8	
9/20/2018	72.2	
3/22/2019	57.9	
9/18/2019	68.1	
3/17/2020		72.1

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	1.65	
6/1/2016	1.75	
11/28/2016	2.7	
2/9/2017	2.7	
4/11/2017	4.9	
6/14/2017	2.4	
7/12/2017	4.1	
10/5/2017	1.6	
3/22/2018	2.5	
9/19/2018	1.7	
3/22/2019	6.2	
9/17/2019	6.1	
3/13/2020		11.1

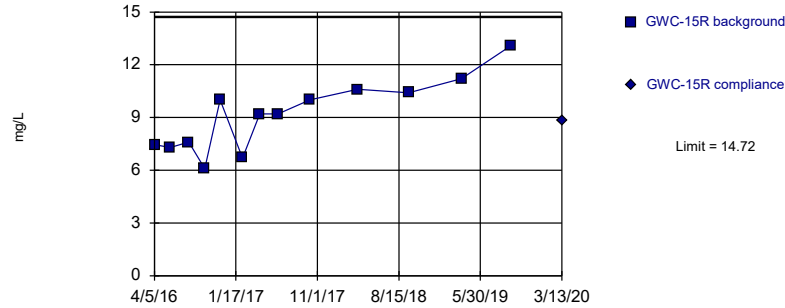
Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	10.1	
5/31/2016	12.1	
11/23/2016	1.3	
2/10/2017	4.2	
4/11/2017	3.2	
6/15/2017	2.5	
7/12/2017	6.9	
7/26/2017	2.9	
10/6/2017	6.6	
3/23/2018	1.6	
9/19/2018	2.6	
3/22/2019	2.1	
9/17/2019	1.6	
3/13/2020		1.1

Within Limit

Prediction Limit
Intrawell Parametric

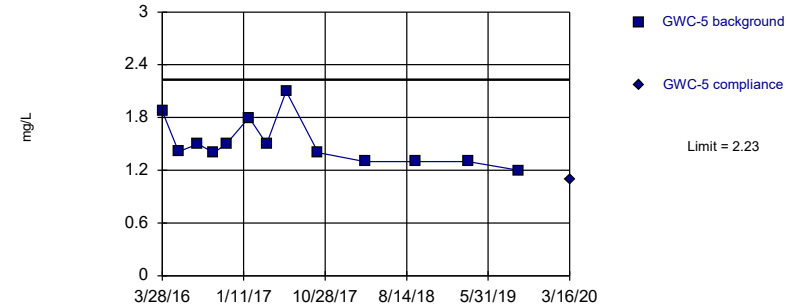


Background Data Summary: Mean=9.142, Std. Dev.=2.02, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9598, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

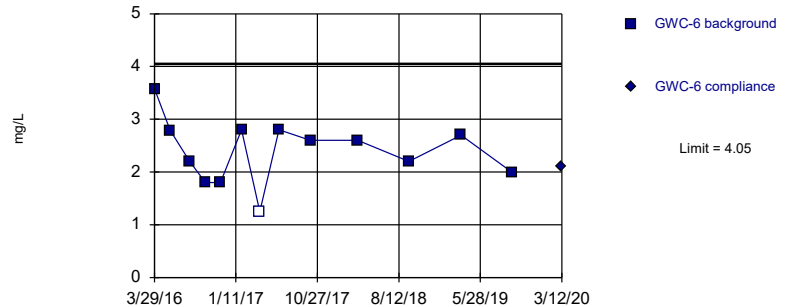


Background Data Summary: Mean=1.506, Std. Dev.=0.2621, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

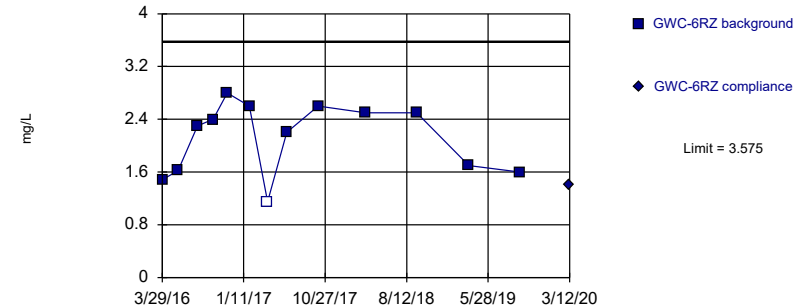


Background Data Summary: Mean=2.394, Std. Dev.=0.5998, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.112, Std. Dev.=0.5298, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9038, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
4/5/2016	7.45	
5/31/2016	7.29	
8/4/2016	7.6	
9/29/2016	6.1	
11/23/2016	10	
2/10/2017	6.7	
4/12/2017	9.2	
6/15/2017	9.2	
10/6/2017	10	
3/23/2018	10.6	
9/19/2018	10.4	
3/25/2019	11.2	
9/17/2019	13.1	
3/13/2020		8.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
3/28/2016	1.87	
5/25/2016	1.41	
8/1/2016	1.5	
9/27/2016	1.4	
11/11/2016	1.5	
1/31/2017	1.8	
4/3/2017	1.5	
6/12/2017	2.1	
10/3/2017	1.4	
3/19/2018	1.3	
9/17/2018	1.3	
3/20/2019	1.3	
9/16/2019	1.2	
3/16/2020		1.1

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
3/29/2016	3.5801	
5/24/2016	2.79	
8/1/2016	2.2	
9/26/2016	1.8	
11/18/2016	1.8	
2/1/2017	2.8	
4/6/2017	<2.5	
6/13/2017	2.8	
10/3/2017	2.6	
3/19/2018	2.6	
9/17/2018	2.2	
3/21/2019	2.7	
9/16/2019	2	
3/12/2020		2.1

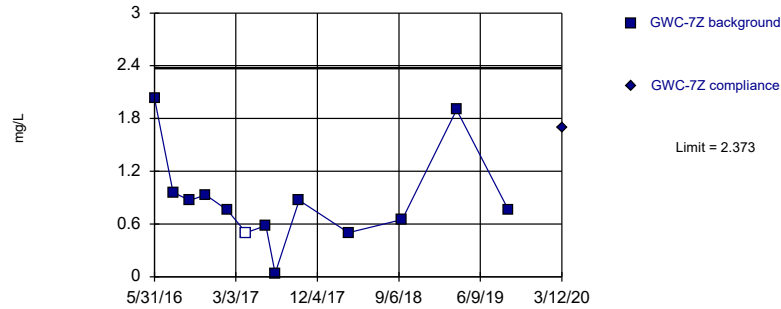
Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	1.4863	
5/24/2016	1.62	
8/1/2016	2.3	
9/26/2016	2.4	
11/14/2016	2.8	
2/1/2017	2.6	
4/6/2017	<2.3	
6/13/2017	2.2	
10/3/2017	2.6	
3/20/2018	2.5	
9/17/2018	2.5	
3/21/2019	1.7	
9/16/2019	1.6	
3/12/2020		1.4

Within Limit

Prediction Limit
 Intrawell Parametric

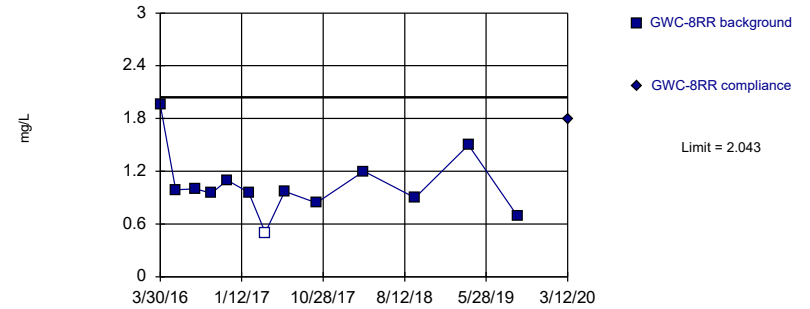


Background Data Summary: Mean=0.8731, Std. Dev.=0.5429, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8487, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

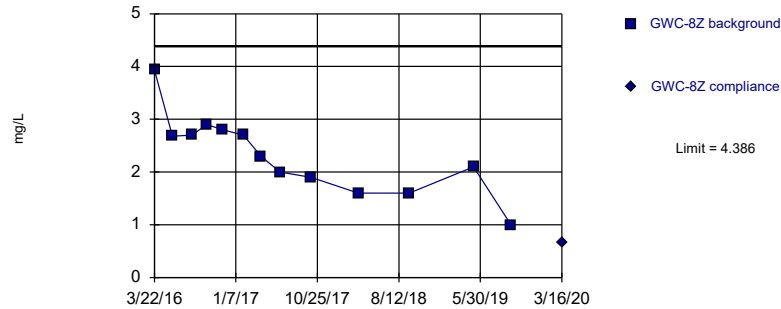


Background Data Summary: Mean=1.043, Std. Dev.=0.3621, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8797, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

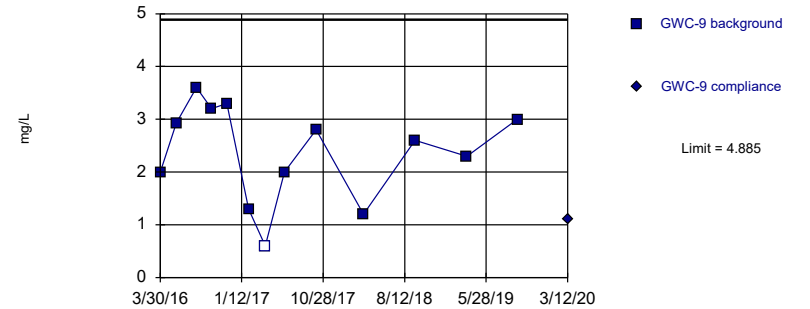


Background Data Summary: Mean=2.324, Std. Dev.=0.7467, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=2.372, Std. Dev.=0.9101, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9445, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	2.03	
8/2/2016	0.96 (J)	
9/27/2016	0.87 (J)	
11/21/2016	0.93 (J)	
2/1/2017	0.76 (J)	
4/6/2017	<1	
6/13/2017	0.58 (J)	
7/14/2017	0.04 (J)	
10/3/2017	0.87 (J)	
3/20/2018	0.5 (J)	
9/18/2018	0.65 (J)	
3/21/2019	1.9	
9/13/2019	0.76 (J)	
3/12/2020		1.7

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	1.9542	
5/24/2016	0.989 (J)	
8/2/2016	1	
9/27/2016	0.95 (J)	
11/22/2016	1.1	
2/6/2017	0.96 (J)	
4/6/2017	<1	
6/14/2017	0.97 (J)	
10/4/2017	0.84 (J)	
3/21/2018	1.2	
9/18/2018	0.9 (J)	
3/27/2019	1.5	
9/16/2019	0.69 (JD)	
3/12/2020		1.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	3.9321	
5/25/2016	2.68	
8/2/2016	2.7	
9/26/2016	2.9	
11/21/2016	2.8	
2/3/2017	2.7	
4/7/2017	2.3	
6/13/2017	2	
10/3/2017	1.9	
3/20/2018	1.6	
9/18/2018	1.6	
5/6/2019	2.1	
9/16/2019	1	
3/16/2020		0.66 (J)

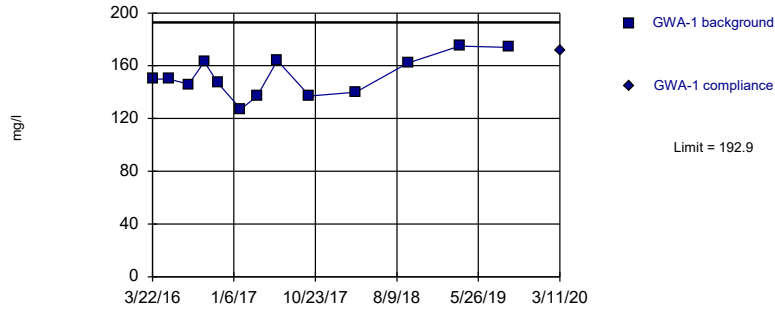
Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
3/30/2016	2	
5/26/2016	2.93	
8/5/2016	3.6	
9/28/2016	3.2	
11/21/2016	3.3	
2/6/2017	1.3	
4/6/2017	<1.2	
6/13/2017	2	
10/3/2017	2.8	
3/20/2018	1.2	
9/18/2018	2.6	
3/21/2019	2.3	
9/16/2019	3	
3/12/2020		1.1

Within Limit

Prediction Limit
Intrawell Parametric

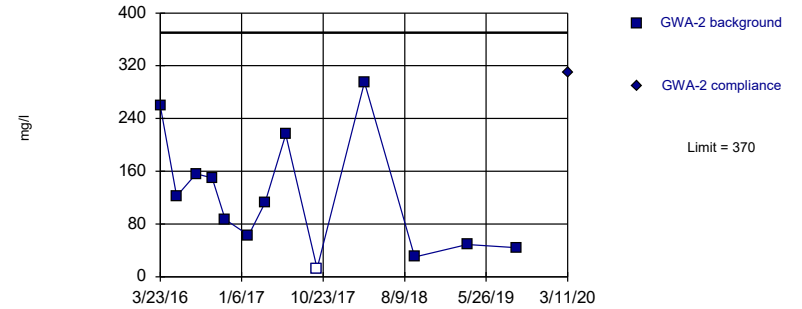


Background Data Summary: Mean=151.7, Std. Dev.=14.9, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

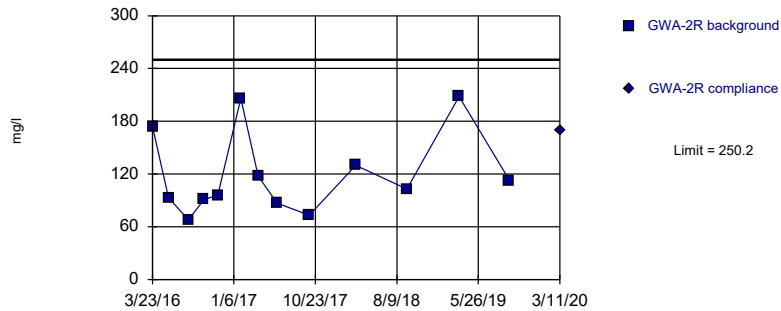


Background Data Summary: Mean=122.7, Std. Dev.=89.51, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9282, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

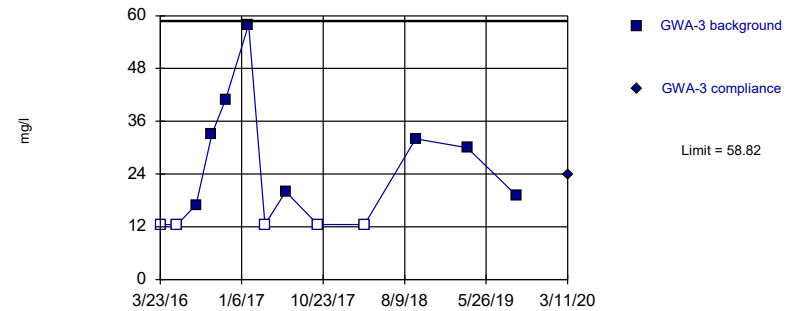


Background Data Summary: Mean=120, Std. Dev.=47.12, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8507, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=26.41, Std. Dev.=11.74, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8225, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
3/22/2016	150	
5/19/2016	150	
7/29/2016	146	
9/23/2016	163	
11/9/2016	147	
1/30/2017	127	
3/30/2017	137	
6/9/2017	164	
10/2/2017	137	
3/16/2018	140	
9/17/2018	162	
3/20/2019	175	
9/12/2019	174	
3/11/2020		172

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
3/23/2016	259	
5/20/2016	122	
7/29/2016	156	
9/23/2016	150	
11/9/2016	87	
1/31/2017	63	
3/30/2017	112	
6/12/2017	216	
10/2/2017	<25	
3/19/2018	295	
9/14/2018	30	
3/20/2019	49	
9/12/2019	44	
3/11/2020		309

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
3/23/2016	174	
5/19/2016	93	
7/29/2016	68	
9/22/2016	91	
11/10/2016	96	
1/31/2017	206	
4/3/2017	118	
6/9/2017	87	
10/2/2017	73	
3/16/2018	130	
9/14/2018	103	
3/19/2019	208	
9/13/2019	113	
3/11/2020		170

Prediction Limit

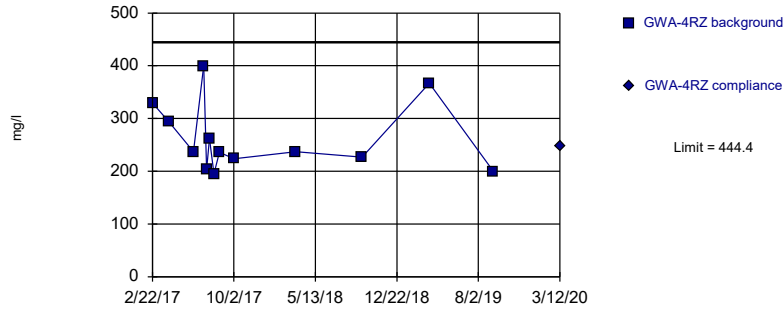
Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3	GWA-3
3/23/2016	<25	
5/23/2016	<25	
7/29/2016	17 (J)	
9/22/2016	33	
11/10/2016	41	
1/31/2017	58	
3/30/2017	<25	
6/12/2017	20 (J)	
10/4/2017	<25	
3/19/2018	<25	
9/17/2018	32	
3/20/2019	30	
9/13/2019	19	
3/11/2020		24

Within Limit

Prediction Limit
Intrawell Parametric

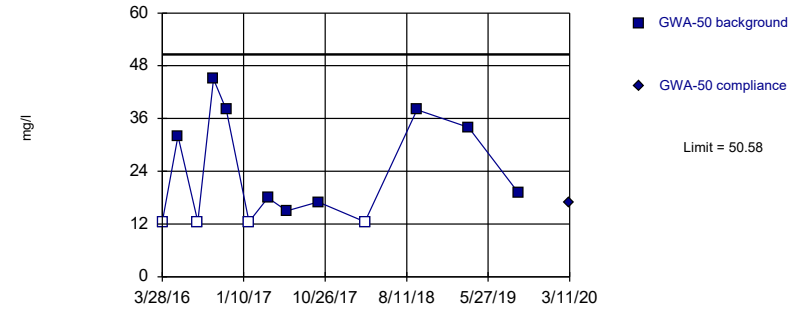


Background Data Summary: Mean=262.5, Std. Dev.=65.86, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

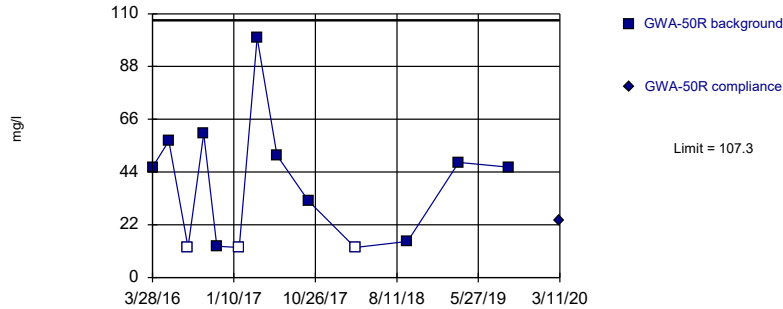


Background Data Summary (after Kaplan-Meier Adjustment): Mean=23.65, Std. Dev.=9.751, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8288, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

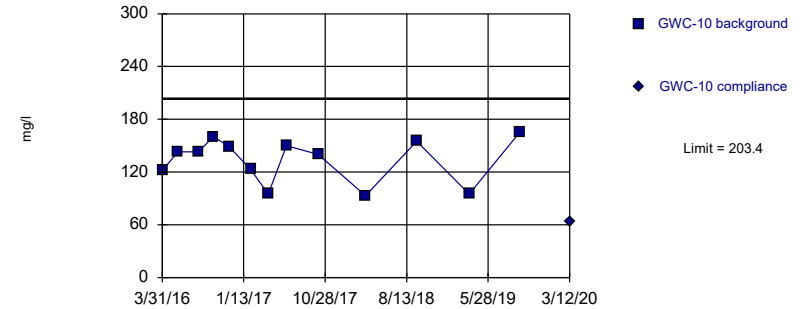


Background Data Summary (after Kaplan-Meier Adjustment): Mean=37, Std. Dev.=25.45, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8646, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=133.3, Std. Dev.=25.39, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8788, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
2/22/2017	329	
4/7/2017	295	
6/14/2017	237	
7/12/2017	400	
7/20/2017	203	
7/28/2017	262	
8/9/2017	195	
8/24/2017	236	
10/3/2017	224	
3/21/2018	237	
9/18/2018	227	
3/21/2019	367	
9/12/2019	200	
3/12/2020		247

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
3/28/2016	<25	
5/23/2016	32	
8/1/2016	<25	
9/26/2016	45	
11/10/2016	38	
1/30/2017	<25	
4/7/2017	18 (J)	
6/12/2017	15 (J)	
10/2/2017	17 (J)	
3/16/2018	<25	
9/17/2018	38	
3/19/2019	34	
9/13/2019	19	
3/11/2020		17

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
3/28/2016	46	
5/25/2016	57	
8/1/2016	<25	
9/26/2016	60	
11/11/2016	13 (J)	
1/30/2017	<25	
4/3/2017	100	
6/12/2017	51	
10/2/2017	32	
3/16/2018	<25	
9/18/2018	15 (J)	
3/19/2019	48	
9/12/2019	46	
3/11/2020		24

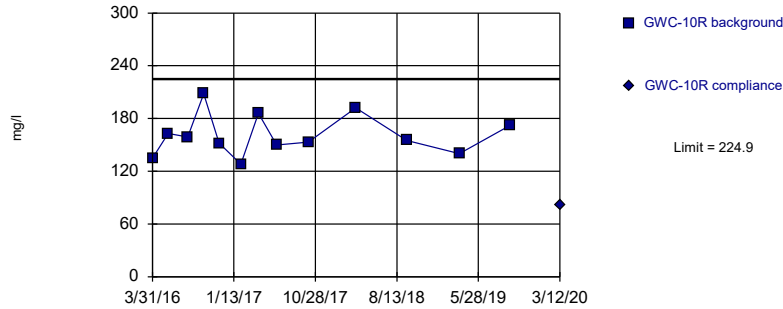
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
3/31/2016	122	
5/26/2016	143	
8/5/2016	143	
9/28/2016	160	
11/22/2016	149	
2/7/2017	123	
4/10/2017	95	
6/14/2017	150	
10/4/2017	140	
3/20/2018	93	
9/18/2018	155	
3/22/2019	95	
9/17/2019	165	
3/12/2020		63

Within Limit

Prediction Limit
Intrawell Parametric

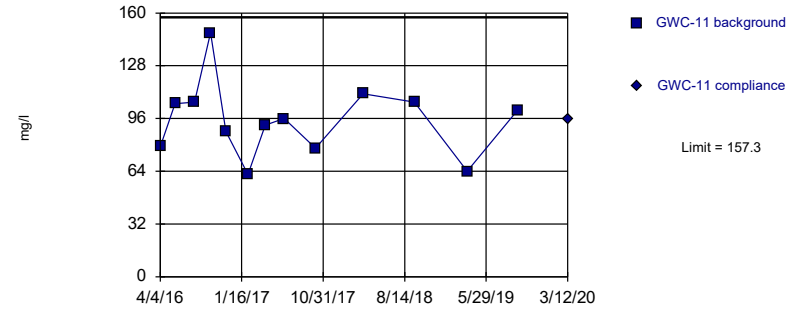


Background Data Summary: Mean=161, Std. Dev.=23.15, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9509, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

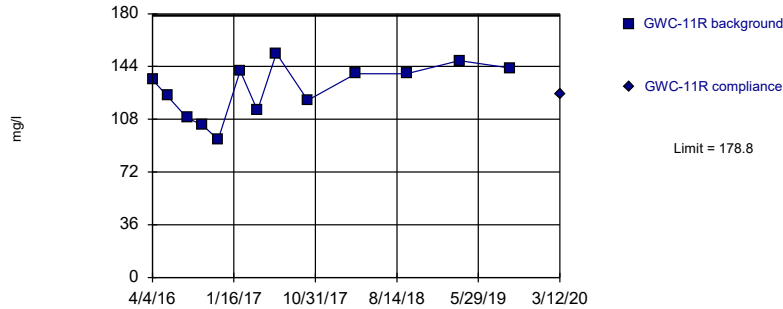


Background Data Summary: Mean=95.08, Std. Dev.=22.54, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

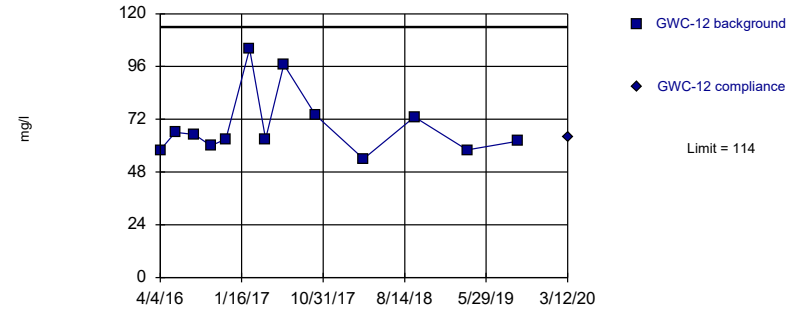


Background Data Summary: Mean=128, Std. Dev.=18.4, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=4.084, Std. Dev.=0.2771, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8229, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
3/31/2016	135	
5/26/2016	163	
8/3/2016	159	
9/28/2016	208	
11/22/2016	152	
2/7/2017	128	
4/10/2017	186	
6/14/2017	150	
10/4/2017	153	
3/21/2018	192	
9/18/2018	155	
3/22/2019	140	
9/17/2019	172	
3/12/2020		81

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
4/4/2016	79	
5/26/2016	105	
8/3/2016	106	
9/28/2016	148	
11/22/2016	88	
2/8/2017	62	
4/10/2017	92	
6/15/2017	96	
10/4/2017	78	
3/21/2018	111	
9/18/2018	106	
3/23/2019	64	
9/17/2019	101	
3/12/2020		96

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
4/4/2016	135	
5/26/2016	124	
8/4/2016	109	
9/28/2016	104	
11/22/2016	94	
2/8/2017	141 (J)	
4/10/2017	114	
6/15/2017	153	
10/4/2017	121	
3/22/2018	139	
9/18/2018	139	
3/23/2019	148	
9/17/2019	143	
3/12/2020		125

Prediction Limit

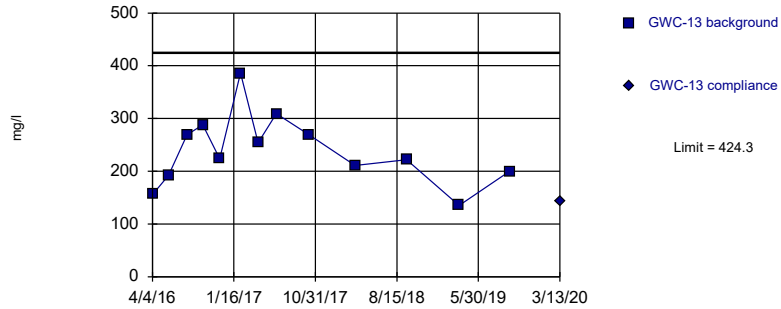
Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
4/4/2016	58	
5/27/2016	66	
8/3/2016	65	
9/30/2016	60	
11/22/2016	63	
2/13/2017	104 (J)	
4/11/2017	63	
6/14/2017	97	
10/4/2017	74	
3/22/2018	54	
9/18/2018	73	
3/23/2019	58	
9/17/2019	62	
3/12/2020		64

Within Limit

Prediction Limit
Intrawell Parametric

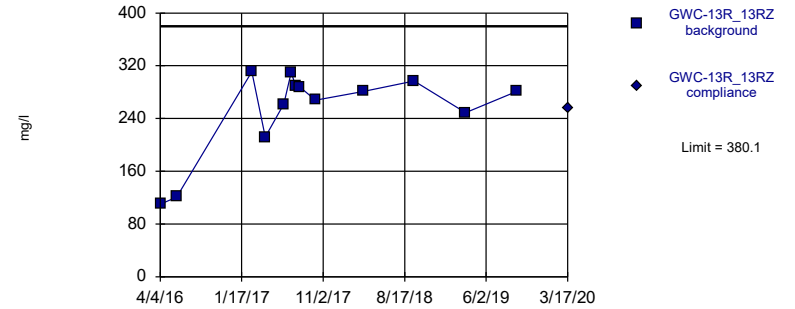


Background Data Summary: Mean=239.6, Std. Dev.=66.87, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

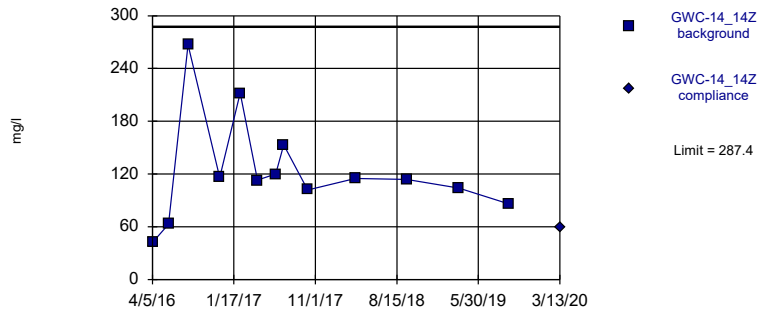


Background Data Summary (based on square transformation): Mean=67659, Std. Dev.=27810, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8439, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

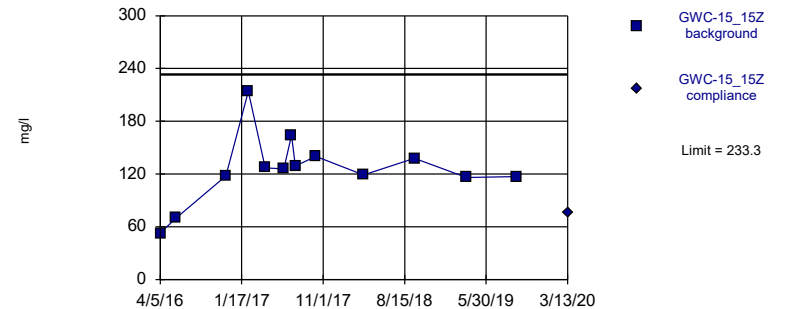


Background Data Summary: Mean=123.6, Std. Dev.=59.29, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8627, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=125.5, Std. Dev.=39.04, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intravel

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
4/4/2016	156	
5/31/2016	192	
8/4/2016	269	
9/29/2016	288	
11/28/2016	224	
2/9/2017	386	
4/12/2017	254	
6/16/2017	309	
10/9/2017	269	
3/21/2018	211	
9/19/2018	222	
3/23/2019	135	
9/18/2019	200	
3/13/2020		143

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13R_13RZ	GWC-13R_13RZ
4/4/2016	110	
6/1/2016	121	
2/22/2017	311	
4/11/2017	212	
6/16/2017	262	
7/12/2017	310	
7/28/2017	289	
8/10/2017	288	
10/6/2017	268	
3/23/2018	281	
9/20/2018	297	
3/22/2019	249	
9/18/2019	281	
3/17/2020		256

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14_14Z	GWC-14_14Z
4/5/2016	42	
6/1/2016	63	
8/9/2016	267	
11/28/2016	116	
2/9/2017	212 (J)	
4/11/2017	113	
6/14/2017	120	
7/12/2017	153	
10/5/2017	102	
3/22/2018	115	
9/19/2018	114	
3/22/2019	104	
9/17/2019	86	
3/13/2020		59

Prediction Limit

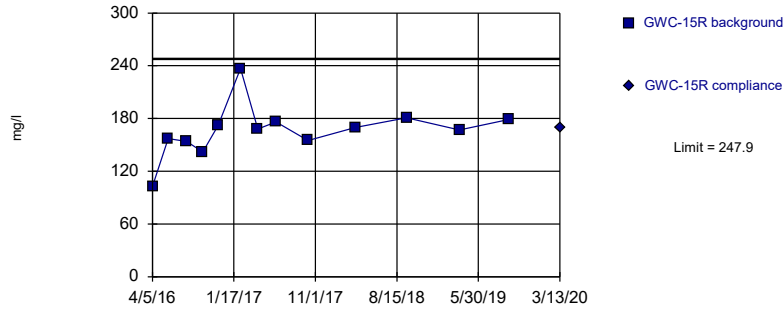
Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15_15Z	GWC-15_15Z
4/5/2016	53	
5/31/2016	70	
11/23/2016	118	
2/10/2017	214	
4/11/2017	127	
6/15/2017	126	
7/12/2017	164	
7/26/2017	129	
10/6/2017	140	
3/23/2018	119	
9/19/2018	138	
3/22/2019	116	
9/17/2019	117	
3/13/2020		76

Within Limit

Prediction Limit Intrawell Parametric

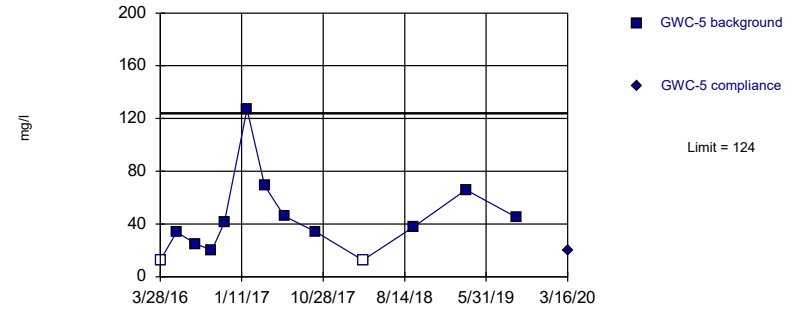


Background Data Summary: Mean=166.2, Std. Dev.=29.56, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8829, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

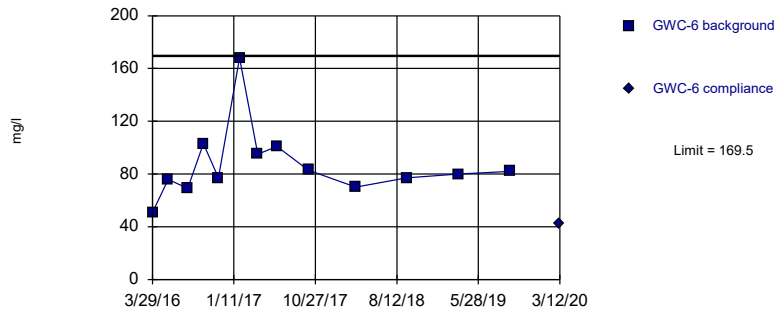


Background Data Summary (after Kaplan-Meier Adjustment): Mean=43.54, Std. Dev.=29.12, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8322, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

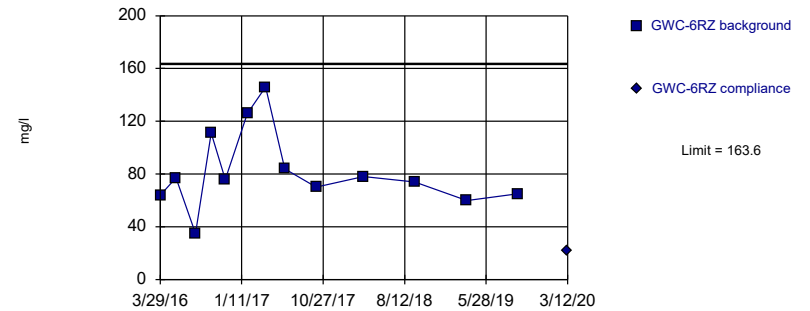


Background Data Summary (based on square root transformation): Mean=9.238, Std. Dev.=1.368, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.848, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=82, Std. Dev.=29.54, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8998, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
4/5/2016	103	
5/31/2016	157	
8/4/2016	154	
9/29/2016	142	
11/23/2016	172	
2/10/2017	237	
4/12/2017	168	
6/15/2017	176	
10/6/2017	155	
3/23/2018	170	
9/19/2018	181	
3/25/2019	167	
9/17/2019	179	
3/13/2020		169

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
3/28/2016	<25	
5/25/2016	34	
8/1/2016	25	
9/27/2016	20 (J)	
11/11/2016	41	
1/31/2017	127	
4/3/2017	69	
6/12/2017	46	
10/3/2017	34	
3/19/2018	<25	
9/17/2018	38	
3/20/2019	66	
9/16/2019	45	
3/16/2020		20

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
3/29/2016	51	
5/24/2016	76	
8/1/2016	69	
9/26/2016	103	
11/18/2016	77	
2/1/2017	168	
4/6/2017	95	
6/13/2017	101	
10/3/2017	83	
3/19/2018	70	
9/17/2018	77	
3/21/2019	80	
9/16/2019	82	
3/12/2020		42

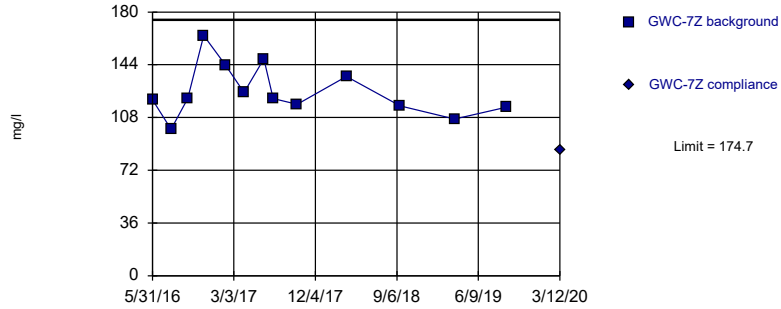
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
3/29/2016	64	
5/24/2016	77	
8/1/2016	35	
9/26/2016	111	
11/14/2016	76	
2/1/2017	126	
4/6/2017	146	
6/13/2017	84	
10/3/2017	70	
3/20/2018	78	
9/17/2018	74	
3/21/2019	60	
9/16/2019	65	
3/12/2020		22

Within Limit

Prediction Limit
Intrawell Parametric

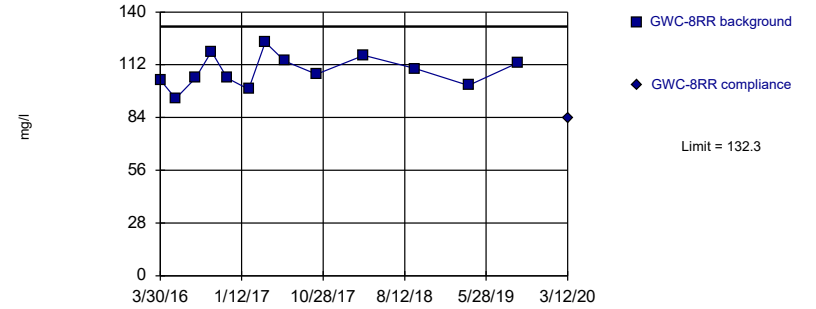


Background Data Summary: Mean=125.7, Std. Dev.=17.74, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9302, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

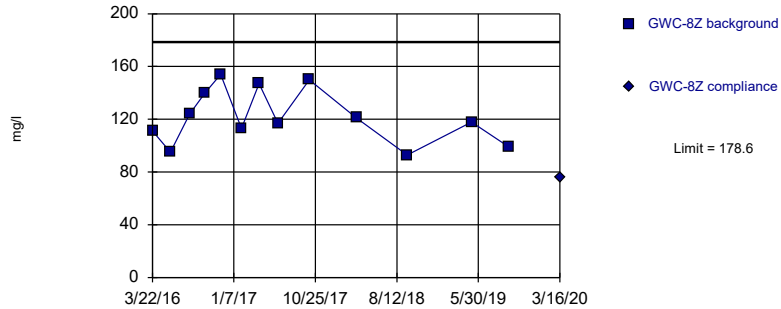


Background Data Summary: Mean=108.6, Std. Dev.=8.559, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9861, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

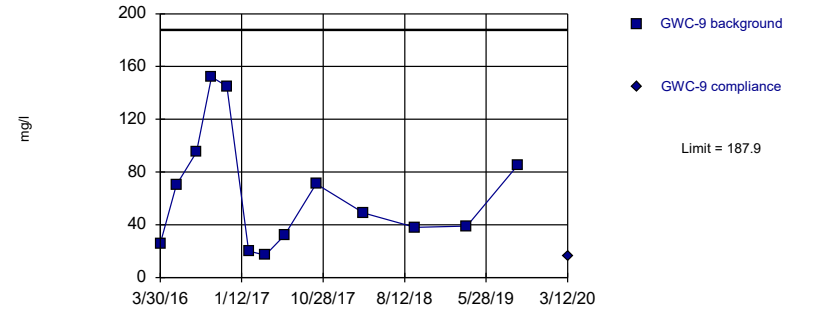


Background Data Summary: Mean=121.7, Std. Dev.=20.62, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=64.54, Std. Dev.=44.65, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8775, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/14/2020 11:10 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	120	
8/2/2016	100	
9/27/2016	121	
11/21/2016	164	
2/1/2017	144	
4/6/2017	125	
6/13/2017	148	
7/14/2017	121	
10/3/2017	117	
3/20/2018	136	
9/18/2018	116	
3/21/2019	107	
9/13/2019	115	
3/12/2020		86

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
3/30/2016	104	
5/24/2016	94	
8/2/2016	105	
9/27/2016	119	
11/22/2016	105	
2/6/2017	99	
4/6/2017	124	
6/14/2017	114	
10/4/2017	107	
3/21/2018	117	
9/18/2018	110	
3/27/2019	101	
9/16/2019	113	
3/12/2020		84

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8Z	GWC-8Z
3/22/2016	111	
5/25/2016	95	
8/2/2016	124	
9/26/2016	140	
11/21/2016	154	
2/3/2017	113	
4/7/2017	147	
6/13/2017	117	
10/3/2017	150	
3/20/2018	121	
9/18/2018	93	
5/6/2019	118	
9/16/2019	99	
3/16/2020		76

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/14/2020 11:12 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-9	GWC-9
3/30/2016	26	
5/26/2016	70	
8/5/2016	95	
9/28/2016	152	
11/21/2016	145	
2/6/2017	20 (J)	
4/6/2017	17 (J)	
6/13/2017	32	
10/3/2017	71	
3/20/2018	49	
9/18/2018	38	
3/21/2019	39	
9/16/2019	85	
3/12/2020		16

FIGURE H.

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

<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>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-10R	2.988	n/a	3/12/2020	3	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13	2.988	n/a	3/13/2020	3.3	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13R_13RZ	2.988	n/a	3/17/2020	7.7	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-14_14Z	2.988	n/a	3/13/2020	4.2	Yes	98	1.177	0.2634	6.122	None	0.0004426	Param Inter 1 of 2
pH (pH units)	GWC-15_15Z	7.65	5.07	3/13/2020	7.68	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	7.65	5.07	3/12/2020	8.02	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	7.65	5.07	3/12/2020	4.82	Yes	99	n/a	n/a	0	n/a	0.0003911	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-10	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-10R	0.04	n/a	3/12/2020	0.005	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11R	0.04	n/a	3/12/2020	0.0058	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.04	n/a	3/13/2020	0.014	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13R_13RZ	0.04	n/a	3/17/2020	0.017	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-14_14Z	0.04	n/a	3/13/2020	0.0081	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15_15Z	0.04	n/a	3/13/2020	0.0054	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15R	0.04	n/a	3/13/2020	0.0064	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.04	n/a	3/16/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6	0.04	n/a	3/12/2020	0.0061	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6RZ	0.04	n/a	3/12/2020	0.0052	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-7Z	0.04	n/a	3/12/2020	0.0057	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8RR	0.04	n/a	3/12/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8Z	0.04	n/a	3/16/2020	0.04ND	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.04	n/a	3/12/2020	0.0058	No	98	n/a	n/a	71.43	n/a	n/a	0.0001999	NP Inter (NDs) 1 of 2
Chloride (mg/L)	GWC-10	2.988	n/a	3/12/2020	2.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-10R	2.988	n/a	3/12/2020	3	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-11	2.988	n/a	3/12/2020	1	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-11R	2.988	n/a	3/12/2020	1.5	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-12	2.988	n/a	3/12/2020	0.84	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13	2.988	n/a	3/13/2020	3.3	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-13R_13RZ	2.988	n/a	3/17/2020	7.7	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-14_14Z	2.988	n/a	3/13/2020	4.2	Yes	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-15_15Z	2.988	n/a	3/13/2020	0.7	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-15R	2.988	n/a	3/13/2020	1.6	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-5	2.988	n/a	3/16/2020	0.67	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-6	2.988	n/a	3/12/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-6RZ	2.988	n/a	3/12/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-7Z	2.988	n/a	3/12/2020	0.72	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-8RR	2.988	n/a	3/12/2020	0.93	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-8Z	2.988	n/a	3/16/2020	1.3	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	GWC-9	2.988	n/a	3/12/2020	1.9	No	98	1.177	0.2634	6.122	None	n/a	0.0004426	Param Inter 1 of 2
Fluoride (mg/L)	GWC-10	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-10R	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11R	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-12	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13R_13RZ	0.3	n/a	3/17/2020	0.11	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-14_14Z	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15_15Z	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15R	0.3	n/a	3/13/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.3	n/a	3/16/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6RZ	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-7Z	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8RR	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8Z	0.3	n/a	3/16/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-9	0.3	n/a	3/12/2020	0.3ND	No	97	n/a	n/a	51.55	n/a	n/a	0.0002042	NP Inter (NDs) 1 of 2
pH (pH units)	GWC-10	7.65	5.07	3/12/2020	6.43	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-10R	7.65	5.07	3/12/2020	7.49	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11	7.65	5.07	3/12/2020	6.3	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11R	7.65	5.07	3/12/2020	7.6	No	99	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2

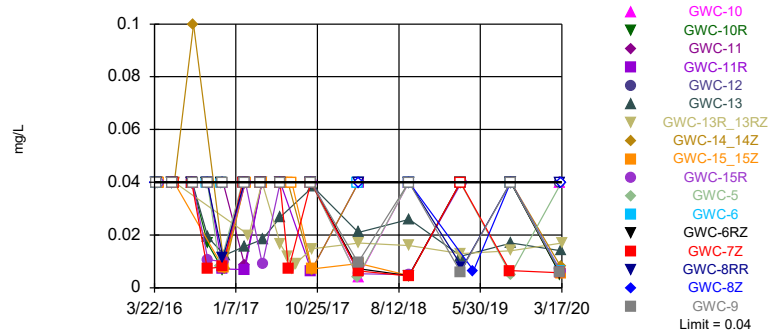
Appendix III Interwell Prediction Limits Summary Table - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/14/2020, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
pH (pH units)	GWC-12	7.65	5.07	3/12/2020	6.17	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13	7.65	5.07	3/13/2020	7.25	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13R_13RZ	7.65	5.07	3/17/2020	7.62	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-14_14Z	7.65	5.07	3/13/2020	6.16	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15_15Z	7.65	5.07	3/13/2020	7.68	Yes	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15R	7.65	5.07	3/13/2020	7.56	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-5	7.65	5.07	3/16/2020	6.88	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6	7.65	5.07	3/12/2020	7.4	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6RZ	7.65	5.07	3/12/2020	6.88	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-7Z	7.65	5.07	3/12/2020	7.53	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	7.65	5.07	3/12/2020	8.02	Yes	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8Z	7.65	5.07	3/16/2020	7.01	No	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	7.65	5.07	3/12/2020	4.82	Yes	99	n/a	n/a	n/a	0	n/a	n/a	0.0003911	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

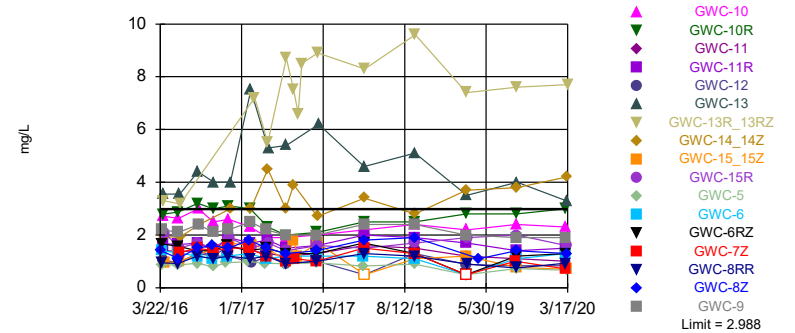


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 71.43% NDs. Annual per-constituent alpha = 0.006774. Individual comparison alpha = 0.0001999 (1 of 2). Comparing 17 points to limit.

Constituent: Boron Analysis Run 4/14/2020 11:17 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit: GWC-10R, GWC-13, GWC-13R_13RZ, GWC-14_14Z

Prediction Limit
Interwell Parametric

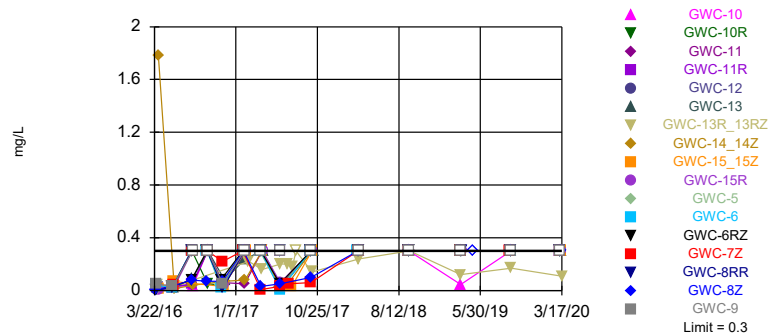


Background Data Summary (based on square root transformation): Mean=1.177, Std. Dev.=0.2634, n=98, 6.122% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9683, critical = 0.966. Kappa = 2.094 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004426. Comparing 17 points to limit.

Constituent: Chloride Analysis Run 4/14/2020 11:17 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

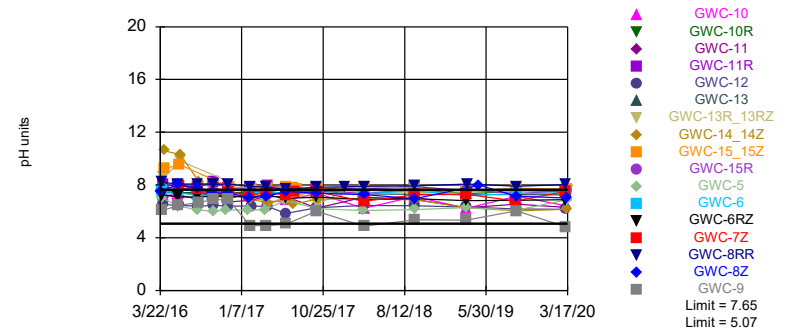


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 97 background values. 51.55% NDs. Annual per-constituent alpha = 0.00692. Individual comparison alpha = 0.0002042 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride Analysis Run 4/14/2020 11:17 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limits: GWC-15_15Z, GWC-8RR, GWC-9

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 99 background values. Annual per-constituent alpha = 0.01326. Individual comparison alpha = 0.0003911 (1 of 2). Comparing 17 points to limit.

Constituent: pH Analysis Run 4/14/2020 11:17 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-3 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6
3/22/2016	<0.04	<0.04							
3/23/2016			<0.04	<0.04	<0.04				
3/28/2016						<0.04	<0.04	<0.04	
3/29/2016									<0.04
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016	<0.04			<0.04					
5/20/2016					<0.04				
5/23/2016			<0.04				<0.04		
5/24/2016									<0.04
5/25/2016		<0.04				<0.04		<0.04	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	<0.04		<0.04	<0.04	<0.04				
8/1/2016						<0.04	<0.04	<0.04	<0.04
8/2/2016		<0.04							
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016			<0.04	<0.04					
9/23/2016	<0.04				<0.04				
9/26/2016		<0.04				<0.04	<0.04		<0.04
9/27/2016								<0.04	
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016	<0.04				<0.04				
11/10/2016			<0.04	<0.04			<0.04		
11/11/2016						0.0193 (J)		0.0083 (J)	
11/14/2016									
11/18/2016									<0.04
11/21/2016		<0.04							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	<0.04					<0.04	<0.04		
1/31/2017			<0.04	<0.04	<0.04			<0.04	
2/1/2017									<0.04
2/3/2017		<0.04							
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	0.0065 (J)		<0.04		<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-12
4/3/2017									
4/6/2017	<0.04	<0.04	<0.04						
4/7/2017									
4/10/2017				<0.04	<0.04			<0.04	
4/11/2017						<0.04			<0.04
4/12/2017							0.0183 (J)		
6/9/2017									
6/12/2017									
6/13/2017	<0.04		<0.04						
6/14/2017		<0.04		<0.04	<0.04				<0.04
6/15/2017								<0.04	
6/16/2017						0.0163 (J)	0.0269 (J)		
7/12/2017						0.0117 (J)			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						0.0071 (J)			
8/9/2017									
8/10/2017						0.0093 (J)			
8/24/2017									
10/2/2017									
10/3/2017	<0.04		<0.04						
10/4/2017		<0.04		<0.04	<0.04			<0.04	<0.04
10/5/2017									
10/6/2017						0.0148 (J)			
10/9/2017							0.0383 (J)		
3/16/2018									
3/19/2018									
3/20/2018	0.0073 (J)		0.0096 (J)	0.004 (J)					
3/21/2018		<0.04			<0.04		0.021 (J)	<0.04	
3/22/2018									<0.04
3/23/2018						0.017 (J)			
9/14/2018									
9/17/2018	0.0046 (J)								
9/18/2018		<0.04	<0.04 (D)	<0.04	<0.04			<0.04	<0.04
9/19/2018							0.026 (J)		
9/20/2018						0.016 (J)			
3/19/2019									
3/20/2019									
3/21/2019	<0.04		0.006 (J)						
3/22/2019				<0.04	<0.04	0.013 (J)			
3/23/2019							0.012 (J)	<0.04	<0.04
3/25/2019									
3/27/2019		0.0078 (J)							
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	<0.04	<0.04 (D)	<0.04						
9/17/2019				<0.04	<0.04			<0.04	<0.04 (D)
9/18/2019						0.014 (X)	0.017 (J)		
3/11/2020									
3/12/2020	0.0052 (J)	<0.04	0.0058 (J)	<0.04	0.005 (J)			<0.04	<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-12
3/13/2020							0.014 (J)		
3/16/2020									
3/17/2020						0.017 (J)			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	<0.04					
4/5/2016		<0.04	<0.04	<0.04		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016	<0.04					
5/27/2016						
5/31/2016		<0.04		<0.04	<0.04	
6/1/2016			<0.04			
7/29/2016						
8/1/2016						
8/2/2016					<0.04	
8/3/2016						
8/4/2016	<0.04			<0.04		
8/5/2016						
8/9/2016			0.0998 (D)			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					0.0073 (J)	
9/28/2016	<0.04					
9/29/2016				0.0106 (J)		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.008 (J)	
11/22/2016	0.0072 (J)					
11/23/2016		0.0076 (J)		0.0099 (J)		
11/28/2016			0.0072 (J)			
1/30/2017						
1/31/2017						
2/1/2017					<0.04	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017	0.0069 (J)					
2/9/2017			<0.04			
2/10/2017		<0.04		<0.04		
2/13/2017						
2/22/2017						0.022 (J)
3/30/2017						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					<0.04	
4/7/2017						0.0082 (J)
4/10/2017	<0.04					
4/11/2017		<0.04	<0.04			
4/12/2017				0.009 (J)		
6/9/2017						
6/12/2017						
6/13/2017					<0.04	
6/14/2017			<0.04			0.008 (J)
6/15/2017	<0.04	<0.04		<0.04		
6/16/2017						
7/12/2017		<0.04	<0.04			0.0082 (J)
7/14/2017					0.007 (J)	
7/20/2017						0.0091 (J)
7/26/2017		<0.04				
7/28/2017						<0.04
8/9/2017						0.0071 (J)
8/10/2017						
8/24/2017						0.0062 (J)
10/2/2017						
10/3/2017					<0.04	0.006 (J)
10/4/2017	0.0065 (J)					
10/5/2017			0.0068 (J)			
10/6/2017		0.0071 (J)		<0.04		
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					0.0064 (J)	
3/21/2018						0.0062 (J)
3/22/2018	<0.04		<0.04			
3/23/2018		0.0092 (J)		0.0053 (J)		
9/14/2018						
9/17/2018						
9/18/2018	<0.04				0.0045 (J)	0.0096 (J)
9/19/2018		0.0046 (J)	<0.04	0.0049 (J)		
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019					<0.04	0.0066 (J)
3/22/2019		<0.04	<0.04			
3/23/2019	<0.04					
3/25/2019				<0.04		
3/27/2019						
5/6/2019						
9/12/2019						0.012 (J)
9/13/2019					0.0065 (J)	
9/16/2019						
9/17/2019	<0.04	<0.04	<0.04	<0.04		
9/18/2019						
3/11/2020						
3/12/2020	0.0058 (J)				0.0057 (J)	0.014 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/13/2020		0.0054 (J)	0.0081 (J)	0.0064 (J)		
3/16/2020						
3/17/2020						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-3 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWA-50R (bg)	GWA-50 (bg)	GWC-5	GWC-6
3/22/2016	1.5101	1.4231							
3/23/2016			1.6092	0.9079	2.4904				
3/28/2016						0.9204	1.14	0.8659	
3/29/2016									1.3977
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016	1.5			0.9136					
5/20/2016					1.71				
5/23/2016			1.52				1.19		
5/24/2016									1.33
5/25/2016		1.11				1.04		0.8639	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	1.7		1.5	1.1	2				
8/1/2016						0.85	1.2	0.93	1.2
8/2/2016		1.5							
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016			1.4	1					
9/23/2016	1.8				1.8				
9/26/2016		1.6				0.87	1.1		1.1
9/27/2016								0.8	
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016	2				1.6				
11/10/2016			1.6	1.2			1.3		
11/11/2016						0.99		0.95	
11/14/2016									
11/18/2016									1.2
11/21/2016		1.5							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	1.5					0.95	1.2		
1/31/2017			1.6	1.2	1.3			0.99	
2/1/2017									1.3
2/3/2017		1.8							
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	1.8		1.4		1.6				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-12
4/3/2017									
4/6/2017	1.5	1.2	2.2						
4/7/2017									
4/10/2017				1.9	2.3			1.3	
4/11/2017						5.5			1.2
4/12/2017							5.3		
6/9/2017									
6/12/2017									
6/13/2017	1.3		2						
6/14/2017		0.92		1.9	2				0.89
6/15/2017								1.2	
6/16/2017						8.7	5.4		
7/12/2017						7.5			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						6.6			
8/9/2017									
8/10/2017						8.5			
8/24/2017									
10/2/2017									
10/3/2017	1.3		2						
10/4/2017		1		2	2.1			1.3	1
10/5/2017									
10/6/2017						8.9			
10/9/2017							6.2		
3/16/2018									
3/19/2018									
3/20/2018	1.7		2.4	2.2					
3/21/2018		1.3			2.5		4.6	1.6	
3/22/2018									<1
3/23/2018						8.3			
9/14/2018									
9/17/2018	1.3								
9/18/2018		1.2	2.4 (D)	2.4	2.5			1.5	1.3
9/19/2018							5.1		
9/20/2018						9.6			
3/19/2019									
3/20/2019									
3/21/2019	<1		2						
3/22/2019				2.2	2.8	7.4			
3/23/2019							3.5	1.2	0.88
3/25/2019									
3/27/2019		0.9							
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	1.2	0.75 (JD)	1.9						
9/17/2019				2.4	2.8			1.1	0.835 (JD)
9/18/2019						7.6	4		
3/11/2020									
3/12/2020	1.3	0.93 (J)	1.9	2.3	3			1	0.84 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10	GWC-10R	GWC-13R_13RZ	GWC-13	GWC-11	GWC-12
3/13/2020							3.3		
3/16/2020									
3/17/2020						7.7			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	1.67					
4/5/2016		0.9439	1.93	2.08		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016	1.64					
5/27/2016						
5/31/2016		1		1.51	1.33	
6/1/2016			1.93			
7/29/2016						
8/1/2016						
8/2/2016					1.5	
8/3/2016						
8/4/2016	1.7			1.7		
8/5/2016						
8/9/2016			2.4			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					1.4	
9/28/2016	1.4					
9/29/2016				1.5		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					1.5	
11/22/2016	1.9					
11/23/2016		1.7		1.9		
11/28/2016			3			
1/30/2017						
1/31/2017						
2/1/2017					1.5	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017	1.7					
2/9/2017			3			
2/10/2017		1.6		1.5		
2/13/2017						
2/22/2017						3.7
3/30/2017						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					1.2	
4/7/2017						2.5
4/10/2017	1.8					
4/11/2017		1.5	4.5			
4/12/2017				1.7		
6/9/2017						
6/12/2017						
6/13/2017					0.98	
6/14/2017			3			2.6
6/15/2017	1.5	1		1.4		
6/16/2017						
7/12/2017		1.8	3.9			2.8
7/14/2017					1.1	
7/20/2017						2.3
7/26/2017		1.2				
7/28/2017						2
8/9/2017						1.8
8/10/2017						
8/24/2017						2.9
10/2/2017						
10/3/2017					1	2.8
10/4/2017	1.6					
10/5/2017			2.7			
10/6/2017		1.7		1.6		
10/9/2017						
3/16/2018						
3/19/2018						
3/20/2018					1.5	
3/21/2018						2.9
3/22/2018	2		3.4			
3/23/2018		<1		1.5		
9/14/2018						
9/17/2018						
9/18/2018	1.9				1.3	3.1
9/19/2018		1.1	2.8	1.7		
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019					<1	3.6
3/22/2019		1.2	3.7			
3/23/2019	1.7					
3/25/2019				1.9		
3/27/2019						
5/6/2019						
9/12/2019						2.1
9/13/2019					1	
9/16/2019						
9/17/2019	1.4	0.78 (X)	3.8	2		
9/18/2019						
3/11/2020						
3/12/2020	1.5				0.72 (J)	2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/13/2020						
3/16/2020		0.7 (J)	4.2	1.6		
3/17/2020						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3 (bg)	GWA-2R (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6
3/22/2016	0.0614 (J)	0.00323 (J)							
3/23/2016			0.0477 (J)	<0.3	0.0826 (J)				
3/28/2016						0.00421 (J)	0.0326 (J)	0.0314 (J)	
3/29/2016									0.0376 (J)
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016	0.064 (J)				0.0409 (J)				
5/20/2016			0.033 (J)						
5/23/2016				<0.3				0.027 (J)	
5/24/2016									0.023 (J)
5/25/2016		0.0345 (J)				0.0207 (J)	0.0285 (J)		
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	0.11 (J)		0.16 (J)	<0.3	0.07 (J)				
8/1/2016						<0.3	<0.3	<0.3	<0.3
8/2/2016		0.08 (J)							
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.3	<0.3				
9/23/2016	0.03 (J)		0.1 (J)						
9/26/2016		0.07 (J)					<0.3	<0.3	<0.3
9/27/2016						<0.3			
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016	0.1 (J)		0.04 (J)						
11/10/2016				<0.3	0.03 (J)			0.04 (J)	
11/11/2016						0.04 (J)	<0.3		
11/14/2016									
11/18/2016									0.02 (J)
11/21/2016		0.07 (J)							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	<0.3						<0.3	<0.3	
1/31/2017			<0.3	<0.3	<0.3	<0.3			
2/1/2017									<0.3
2/3/2017		<0.3							
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	0.01 (J)		0.02 (J)	<0.3					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-13R_13RZ	GWC-11R	GWC-11	GWC-12
4/3/2017									
4/6/2017	<0.3	<0.3	<0.3						
4/7/2017									
4/10/2017				<0.3	<0.3		<0.3	<0.3	
4/11/2017						0.16 (J)			<0.3
4/12/2017									
6/9/2017									
6/12/2017									
6/13/2017	0.05 (J)		<0.3						
6/14/2017		<0.3		<0.3	0.02 (J)				0.01 (J)
6/15/2017							<0.3	0.03 (J)	
6/16/2017						0.2 (J)			
7/12/2017						0.2 (J)			
7/14/2017									
7/20/2017									
7/26/2017									
7/28/2017						0.18 (J)			
8/9/2017									
8/10/2017						<0.3			
8/24/2017									
10/2/2017									
10/3/2017	<0.3		<0.3						
10/4/2017		<0.3		<0.3	<0.3		<0.3	<0.3	<0.3
10/5/2017									
10/6/2017						0.14 (J)			
10/9/2017									
3/16/2018									
3/19/2018									
3/20/2018	<0.3		<0.3		<0.3				
3/21/2018		<0.3		<0.3				<0.3	
3/22/2018							<0.3		<0.3
3/23/2018						0.24 (J)			
9/14/2018									
9/17/2018	<0.3								
9/18/2018		<0.3	<0.3 (D)	<0.3	<0.3		<0.3	<0.3	<0.3
9/19/2018									
9/20/2018						<0.3			
3/19/2019									
3/20/2019									
3/21/2019	<0.3		<0.3						
3/22/2019				<0.3	0.045 (J)	0.12 (J)			
3/23/2019							<0.3	<0.3	<0.3
3/25/2019									
3/27/2019		<0.3							
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	<0.3	<0.3 (D)	<0.3						
9/17/2019				<0.3	<0.3		<0.3	<0.3	<0.3 (D)
9/18/2019						0.17 (X)			
3/11/2020									
3/12/2020	<0.3	<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-13R_13RZ	GWC-11R	GWC-11	GWC-12
3/13/2020									
3/16/2020									
3/17/2020						0.11 (J)			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	0.026 (J)					
4/5/2016		1.78243 (J)	0.011 (J)	0.00288 (J)		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016						
5/31/2016	0.0234 (J)		0.0669 (J)	0.0233 (J)	0.043 (J)	
6/1/2016		0.0148 (J)				
7/29/2016						
8/1/2016						
8/2/2016					<0.3	
8/3/2016						
8/4/2016	0.09 (J)			<0.3		
8/5/2016						
8/9/2016		0.04 (J)				
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					<0.3	
9/28/2016						
9/29/2016	<0.3			<0.3		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.22 (J)	
11/22/2016						
11/23/2016			0.03 (J)	0.04 (J)		
11/28/2016	0.08 (J)	0.07 (J)				
1/30/2017						
1/31/2017						
2/1/2017					<0.3	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017	0.24 (J)	0.08 (J)				
2/10/2017			<0.3	<0.3		
2/13/2017						
2/22/2017						0.3
3/30/2017						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					0.008 (J)	
4/7/2017						0.19 (J)
4/10/2017						
4/11/2017		<0.3	<0.3			
4/12/2017	<0.3			<0.3		
6/9/2017						
6/12/2017						
6/13/2017					0.03 (J)	
6/14/2017		0.01 (J)				0.19 (J)
6/15/2017			0.02 (J)	0.06 (J)		
6/16/2017	0.04 (J)					
7/12/2017		0.05 (J)	0.04 (J)			0.18 (J)
7/14/2017					0.05 (J)	
7/20/2017						0.17 (J)
7/26/2017			0.03 (J)			
7/28/2017						0.13 (J)
8/9/2017						<0.3
8/10/2017						
8/24/2017						0.16 (J)
10/2/2017						
10/3/2017					0.06 (J)	0.17 (J)
10/4/2017						
10/5/2017		<0.3				
10/6/2017			<0.3	<0.3		
10/9/2017	<0.3					
3/16/2018						
3/19/2018						
3/20/2018					<0.3	
3/21/2018	<0.3					0.24 (J)
3/22/2018		<0.3				
3/23/2018			<0.3	<0.3		
9/14/2018						
9/17/2018						
9/18/2018					<0.3	<0.3
9/19/2018	<0.3	<0.3	<0.3	<0.3		
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019					<0.3	0.19 (J)
3/22/2019		<0.3	<0.3			
3/23/2019	<0.3					
3/25/2019				<0.3		
3/27/2019						
5/6/2019						
9/12/2019						0.1 (J)
9/13/2019					<0.3	
9/16/2019						
9/17/2019		<0.3	<0.3	<0.3		
9/18/2019	<0.3					
3/11/2020						
3/12/2020					<0.3	0.18 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-14_14Z	GWC-15_15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/13/2020	<0.3	<0.3	<0.3	<0.3		
3/16/2020						
3/17/2020						

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2R (bg)	GWA-2 (bg)	GWA-3 (bg)	GWA-50 (bg)	GWA-50R (bg)	GWC-5	GWC-6RZ
3/22/2016	7.65	7.53 (D)							
3/23/2016			7.45	6.7	5.96				
3/28/2016						6.22	6.45 (D)	7.04	
3/29/2016									7.24
3/30/2016									
3/31/2016									
4/4/2016									
4/5/2016									
5/19/2016	7.6		7.5						
5/20/2016				6.36					
5/23/2016					5.73	5.86			
5/24/2016									7.1
5/25/2016		8.04					6.96	6.39	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	7.58		7.59	6.75	5.51				
8/1/2016						6.39	5.64	6.13	7.07
8/2/2016		7.74							
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016			7.44		5.45				
9/23/2016	7.57			6.62					
9/26/2016		7.4				5.74	6.26		7.15
9/27/2016								5.98	
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016	7.45			6.42					
11/10/2016			7.55		5.51	5.78			
11/11/2016							5.62	6.11	
11/14/2016									7.15
11/18/2016									
11/21/2016		7.4							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	7.64					5.88	5.49		
1/31/2017			7.56	5.66	5.42			6.08	
2/1/2017									7.09
2/3/2017		7.05							
2/6/2017									
2/7/2017									
2/8/2017									
2/9/2017									
2/10/2017									
2/13/2017									
2/22/2017									
3/30/2017	7.51			6.33	5.43				

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-9	GWC-8RR	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13R_13RZ
4/3/2017									
4/6/2017	7.49	4.92	7.86						
4/7/2017									
4/10/2017				6.72	7.51	7.13	7.95		
4/11/2017								6.37	6.37
4/12/2017									
6/9/2017									
6/12/2017									
6/13/2017	7.38	5.03							
6/14/2017			7.66	6.83	7.34			5.85	
6/15/2017						7.1	7.79		
6/16/2017									7.33
7/12/2017									7.46
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									7.37
7/28/2017									7.37
8/9/2017									7.38
8/10/2017									7.38
8/24/2017									
10/2/2017									
10/3/2017	7.39	6.01							
10/4/2017			7.84	7.38	7.54	6.25	7.74	6.27	
10/5/2017									
10/6/2017									6.55
10/9/2017									
12/28/2017									7.43 (Y)
1/9/2018			7.86 (Y)						
3/16/2018									
3/19/2018	7.32								
3/20/2018		4.88		6.23					
3/21/2018			7.9		7.33	7.07			
3/22/2018							7.72	6.45	
3/23/2018									7.58
9/14/2018									
9/17/2018	7.57								
9/18/2018		5.36 (D)	7.92	7.14	7.66	6.9	7.88	6.42	
9/19/2018									
9/20/2018									7.43
3/19/2019									
3/20/2019									
3/21/2019	7.21	5.33							
3/22/2019				6.23	7.34				7.49
3/23/2019						6.27	7.56	6.34	
3/25/2019									
3/27/2019			8.07						
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	7.35	6.03	7.9 (D)						
9/17/2019				7.16	7.51	6.55	7.58	6.19 (D)	

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/22/2016						
3/23/2016						
3/28/2016						
3/29/2016						
3/30/2016						
3/31/2016						
4/4/2016	7.44 (D)					
4/5/2016		9.23	10.61	7.71		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016						
5/31/2016	7.37	9.52		7.66	7.98	
6/1/2016			10.32			
7/29/2016						
8/1/2016						
8/2/2016					7.64	
8/3/2016						
8/4/2016	7.32			7.8		
8/5/2016						
8/9/2016			8.23			
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016					7.18	
9/28/2016						
9/29/2016	7.38			7.46		
9/30/2016						
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					7.49	
11/22/2016						
11/23/2016		7.88		7.62		
11/28/2016	7.43		7.29			
1/30/2017						
1/31/2017						
2/1/2017					7.2	
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017	7.36		6.91			
2/10/2017		7.72		7.51		
2/13/2017						
2/22/2017						7.38
3/30/2017						

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					7.42	
4/7/2017						7.35
4/10/2017						
4/11/2017		7.83	6.68			
4/12/2017	7.46			7.54		
6/9/2017						
6/12/2017						
6/13/2017					7.25	
6/14/2017			6.84			7.3
6/15/2017		7.86		7.71		
6/16/2017	7.36					
7/12/2017		7.73	6.54			7.39
7/14/2017					7.5	
7/20/2017						7.44
7/26/2017		7.71				
7/27/2017						
7/28/2017						7.5
8/9/2017						7.52
8/10/2017						
8/24/2017						7.5
10/2/2017						
10/3/2017					7.5	7.51
10/4/2017						
10/5/2017			6.93			
10/6/2017		7.74		7.58		
10/9/2017	7.38					
12/28/2017						7.32 (Y)
1/9/2018						
3/16/2018						
3/19/2018						
3/20/2018					6.76	
3/21/2018	7.33					7.3
3/22/2018			6.93			
3/23/2018		7.89		7.34		
9/14/2018						
9/17/2018						
9/18/2018					7.26	7.26
9/19/2018	7.31	7.77	6.88	7.66		
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019					7.3	7.28
3/22/2019		7.55	6.27			
3/23/2019	7.27					
3/25/2019				7.64		
3/27/2019						
5/6/2019						
9/12/2019						7.2
9/13/2019					6.8	
9/16/2019						
9/17/2019		7.76	6.04	7.35		

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/14/2020 11:19 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15_15Z	GWC-14_14Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
9/18/2019	7.28					
3/11/2020						
3/12/2020					7.53	7.55
3/13/2020	7.25	7.68	6.16	7.56		
3/16/2020						
3/17/2020						

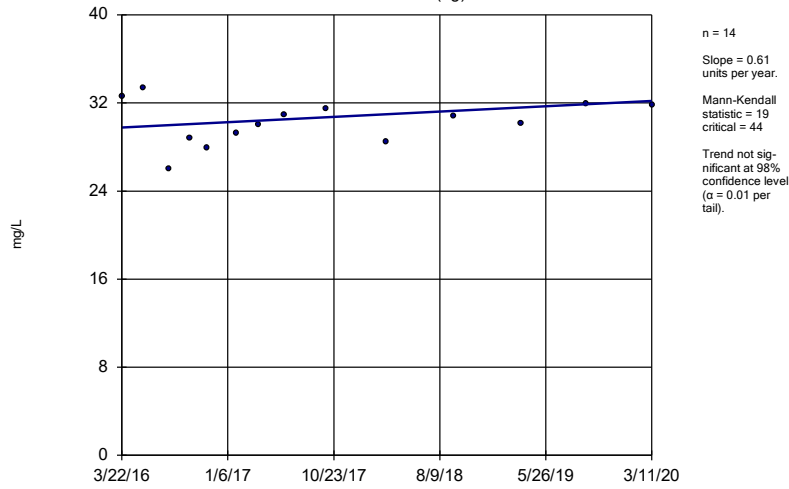
FIGURE I.

Trend Tests Summary Table - Prediction Limit Exceedances - Appendix III Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/6/2020, 4:26 PM

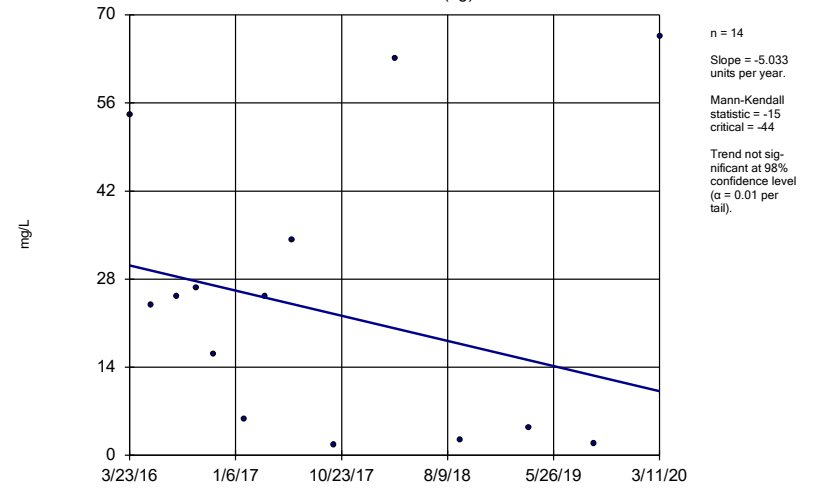
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-1 (bg)	0.61	19	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2 (bg)	-5.033	-15	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2R (bg)	4.179	41	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-3 (bg)	-0.1591	-54	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-4RZ (bg)	0.5153	5	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-50 (bg)	-0.04086	-4	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-50R (bg)	-0.8474	-29	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-10	-3.359	-18	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-5	-0.2792	-25	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-6	0.3688	20	39	No	13	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-1 (bg)	-0.07256	-27	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2 (bg)	-0.3486	-39	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2R (bg)	0.002755	3	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-3 (bg)	-0.03156	-34	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-4RZ (bg)	0	2	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-50 (bg)	-0.05741	-26	-44	No	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-50R (bg)	-0.05729	-34	-44	No	14	14.29	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-10R	-0.03027	-10	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-13	0	-1	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-13R_13RZ	1.019	39	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-14_14Z	0.4506	47	44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-1 (bg)	-0.02607	-31	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-2 (bg)	-0.233	-37	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-2R (bg)	-0.09597	-44	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-3 (bg)	-0.1413	-69	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-4RZ (bg)	-0.03583	-11	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-50 (bg)	-0.08734	-34	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-50R (bg)	-0.1618	-35	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-15_15Z	-0.1063	-41	-44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-8RR	-0.04345	-25	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-9	-0.2898	-32	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-1 (bg)	-0.3058	-72	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-2 (bg)	-8.636	-13	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-2R (bg)	0.8303	33	44	No	14	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-3 (bg)	-0.1575	-52	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-4RZ (bg)	1.685	23	48	No	15	0	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-50 (bg)	-0.08022	-40	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWA-50R (bg)	-0.09287	-36	-44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate, as SO4 (mg/L)	GWC-14_14Z	1.298	31	39	No	13	0	n/a	n/a	0.02	NP

Sen's Slope Estimator GWA-1 (bg)



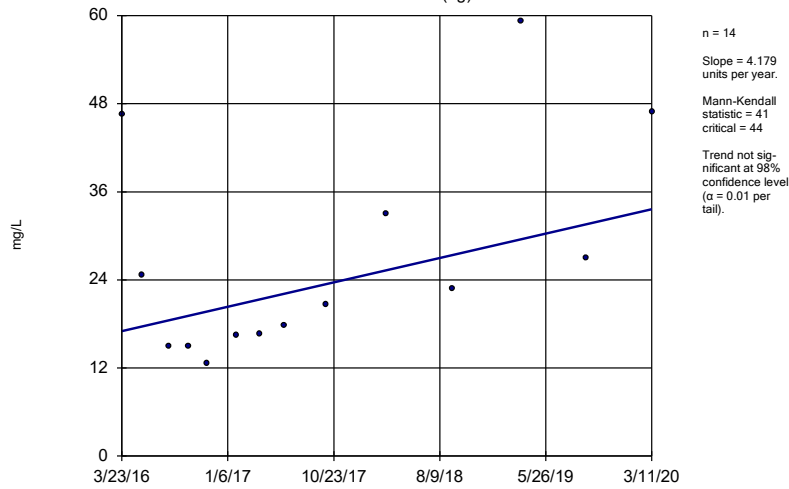
Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-2 (bg)



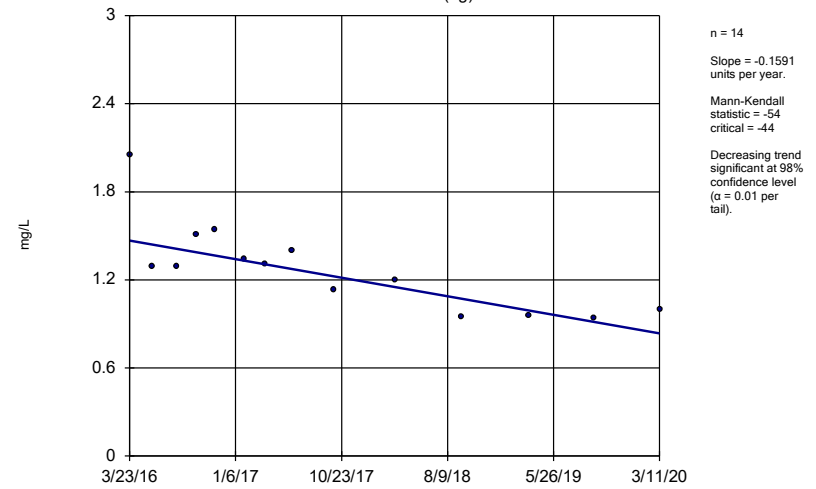
Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-2R (bg)



Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

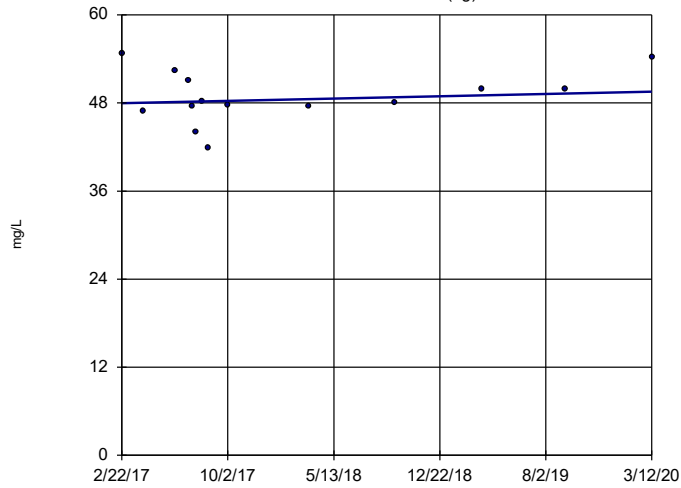
Sen's Slope Estimator GWA-3 (bg)



Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-4RZ (bg)

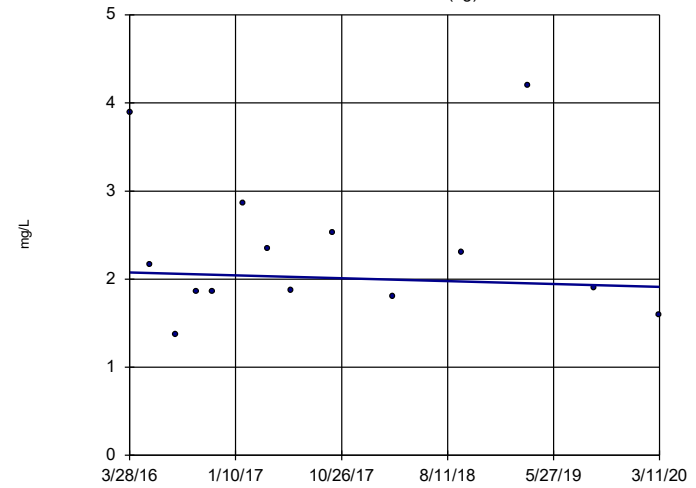


n = 14
 Slope = 0.5153
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50 (bg)

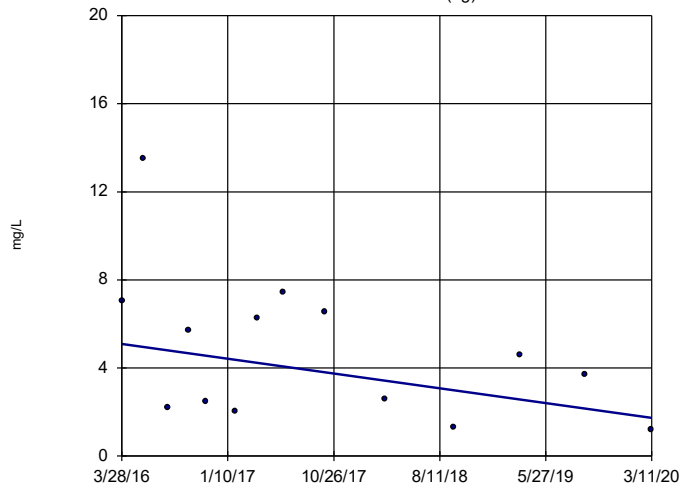


n = 14
 Slope = -0.04086
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50R (bg)

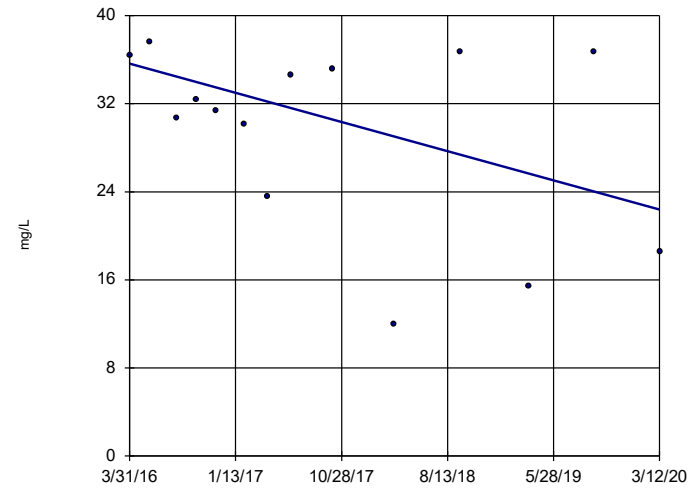


n = 14
 Slope = -0.8474
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

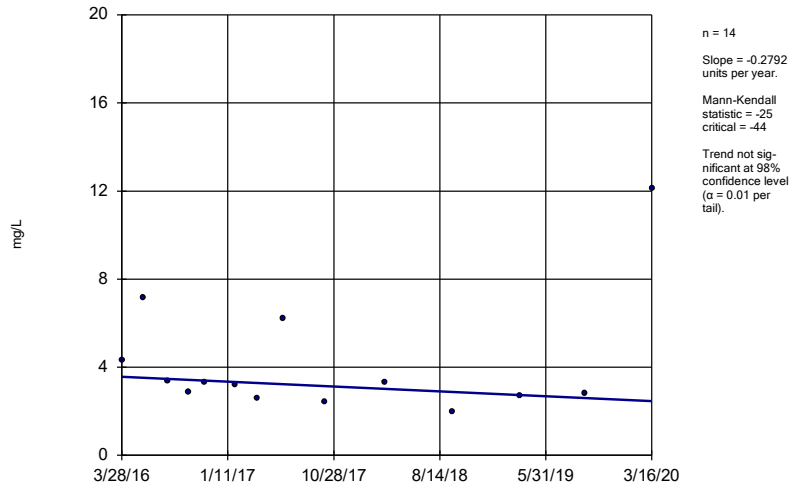
GWC-10



n = 14
 Slope = -3.359
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

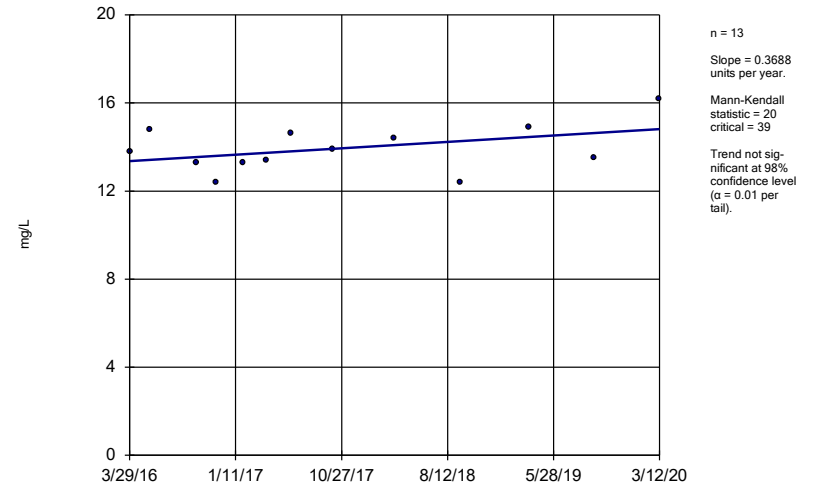
Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWC-5



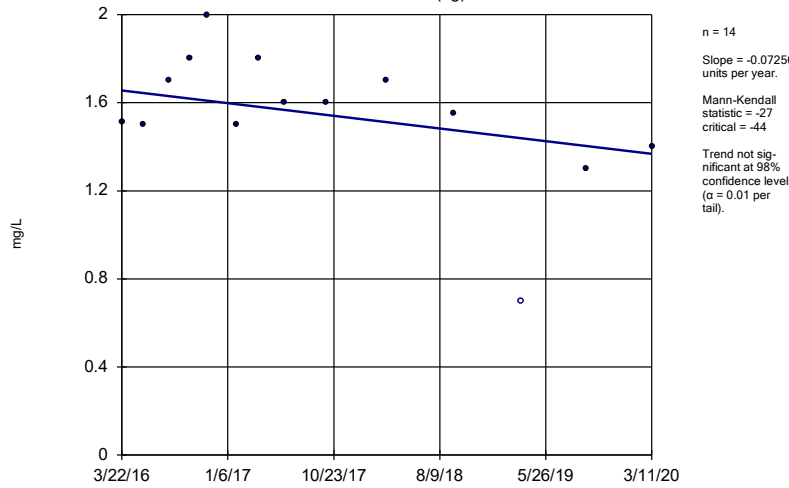
Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWC-6



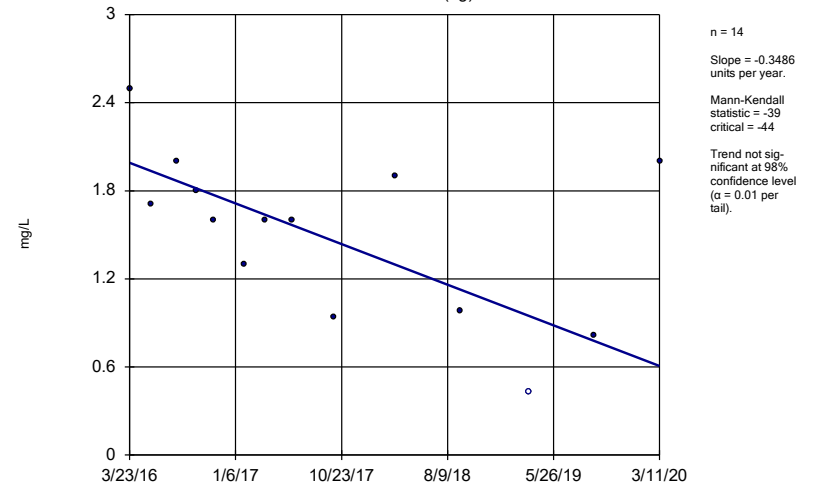
Constituent: Calcium Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-1 (bg)



Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

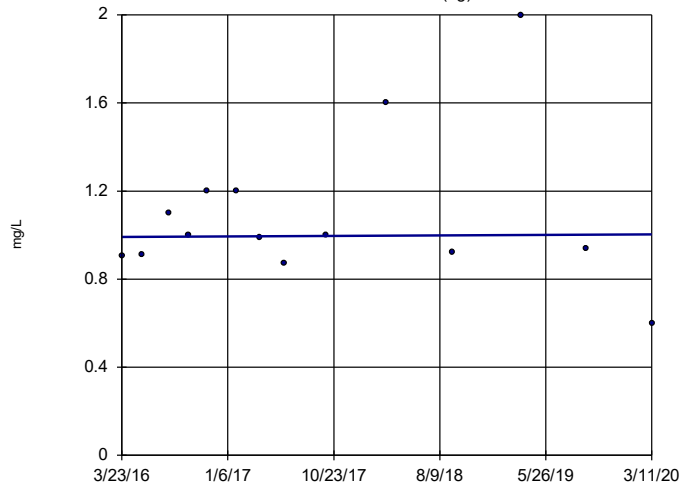
Sen's Slope Estimator
GWA-2 (bg)



Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-2R (bg)

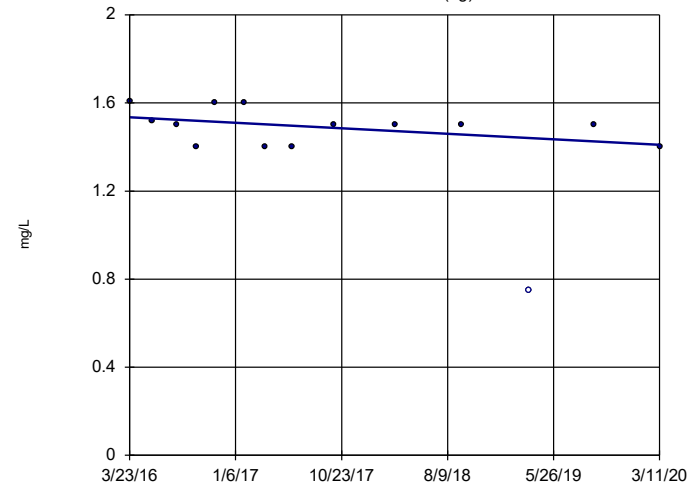


n = 14
 Slope = 0.002755
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-3 (bg)

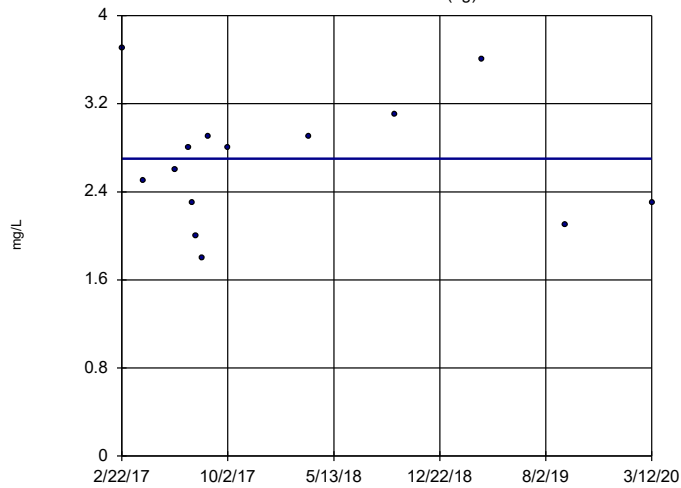


n = 14
 Slope = -0.03156
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-4RZ (bg)

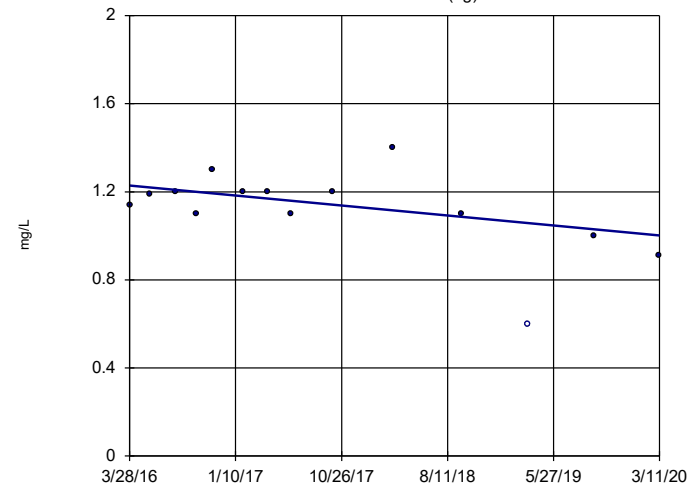


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50 (bg)

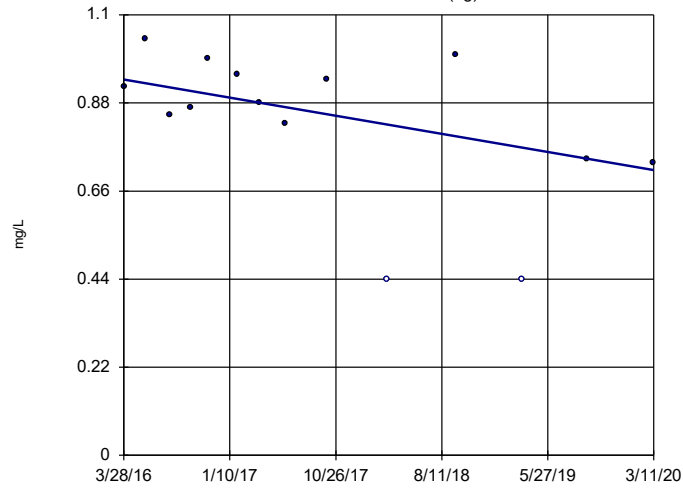


n = 14
 Slope = -0.05741
 units per year.
 Mann-Kendall
 statistic = -26
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50R (bg)

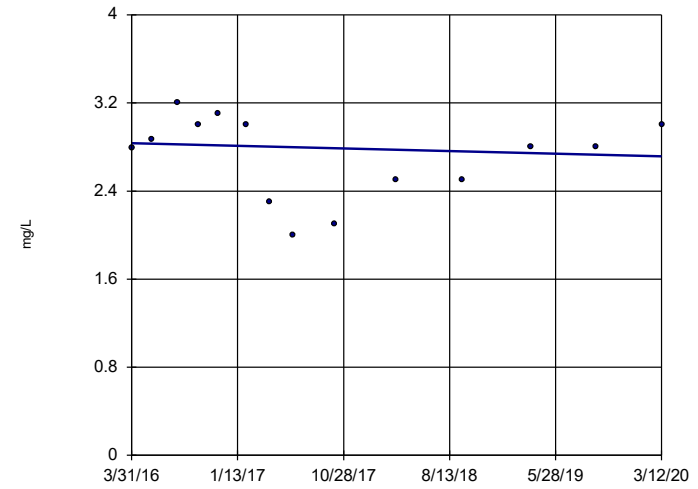


n = 14
 Slope = -0.05729
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-10R

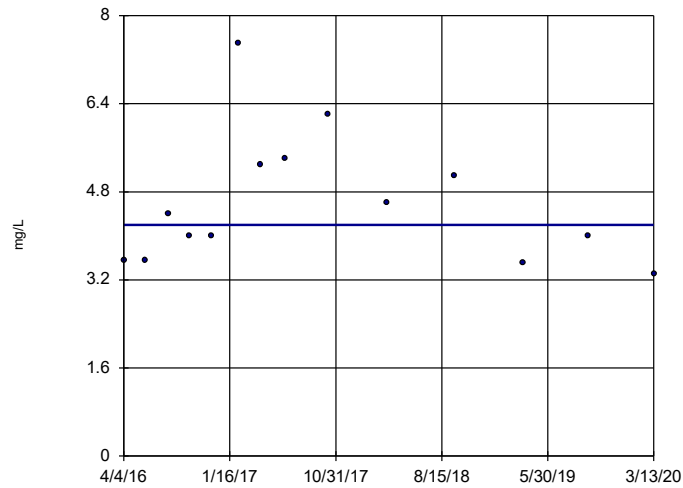


n = 14
 Slope = -0.03027
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-13

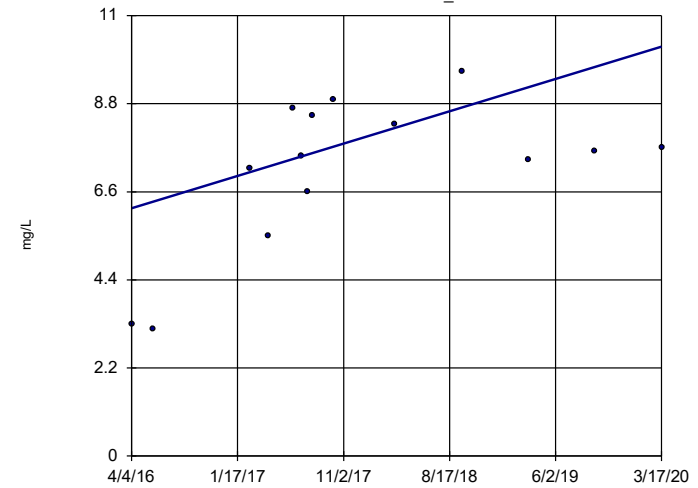


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-13R_13RZ

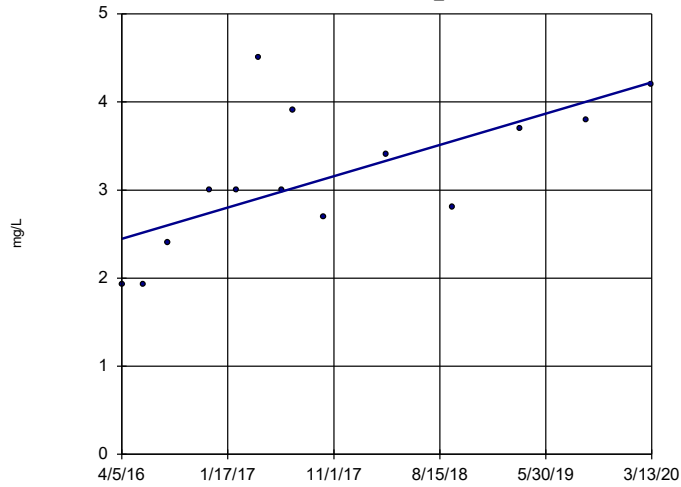


n = 14
 Slope = 1.019
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

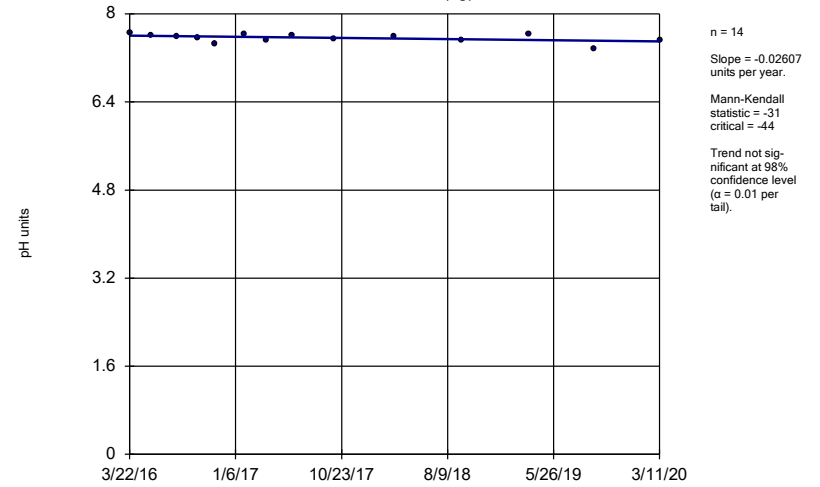
GWC-14_14Z



Constituent: Chloride Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

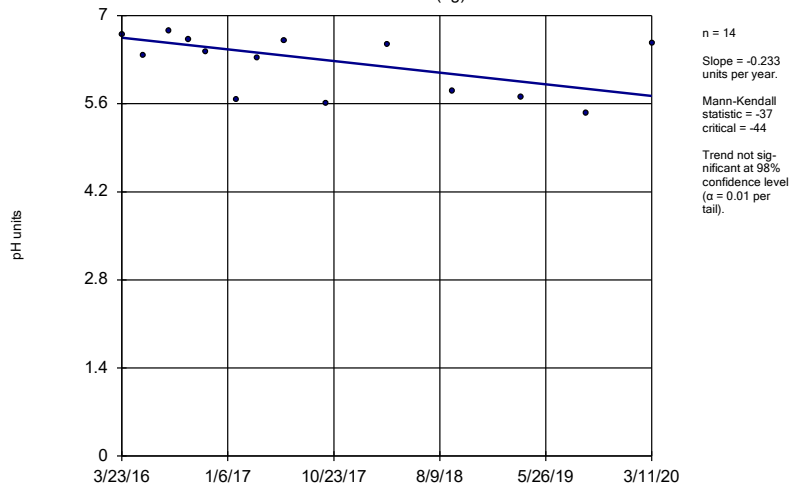
GWA-1 (bg)



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

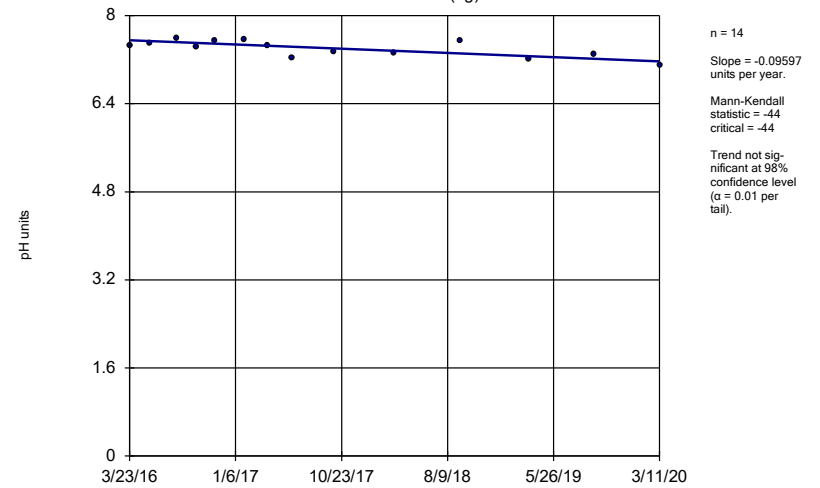
GWA-2 (bg)



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

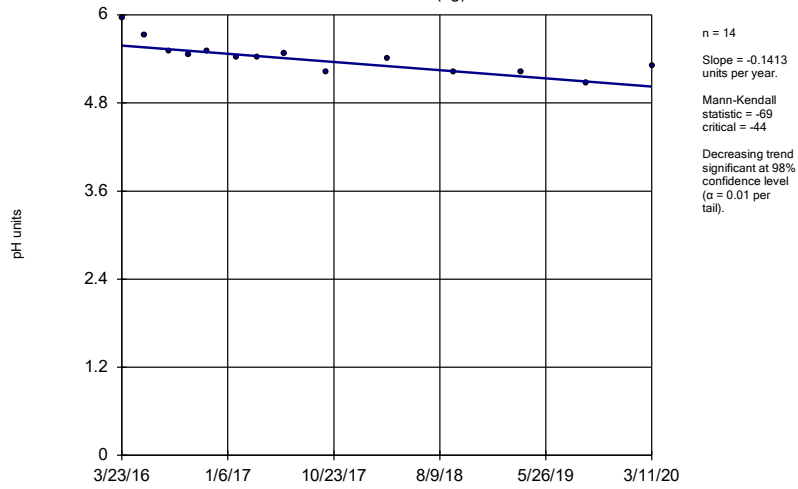
Sen's Slope Estimator

GWA-2R (bg)



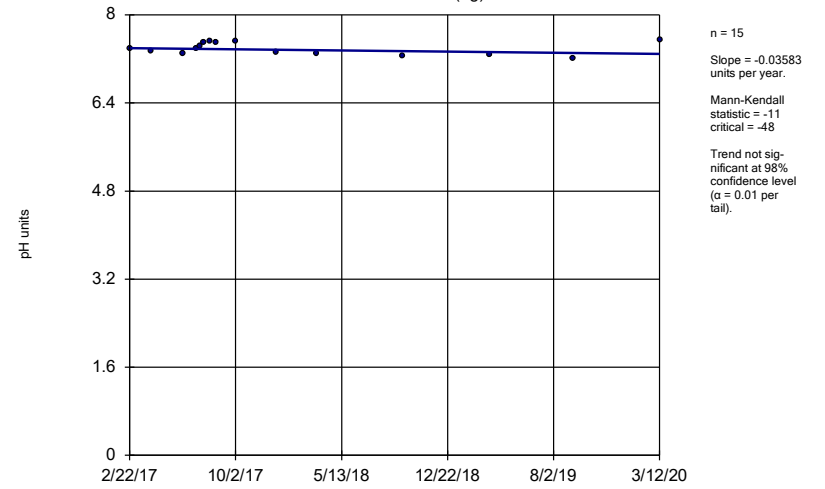
Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-3 (bg)



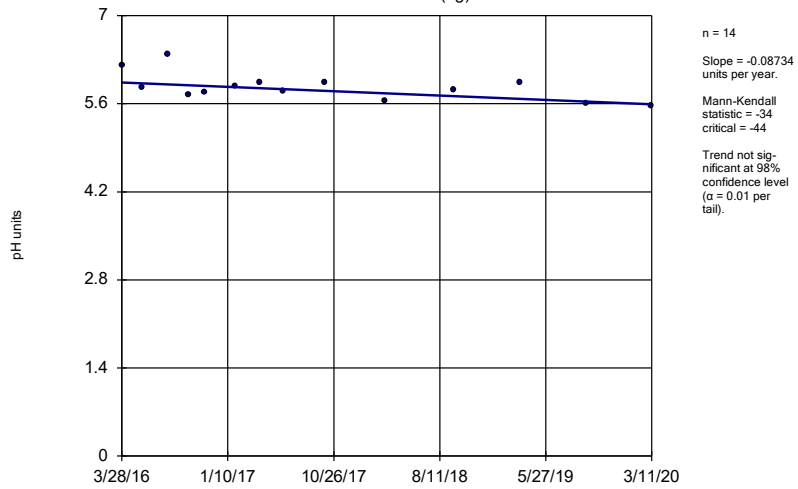
Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-4RZ (bg)



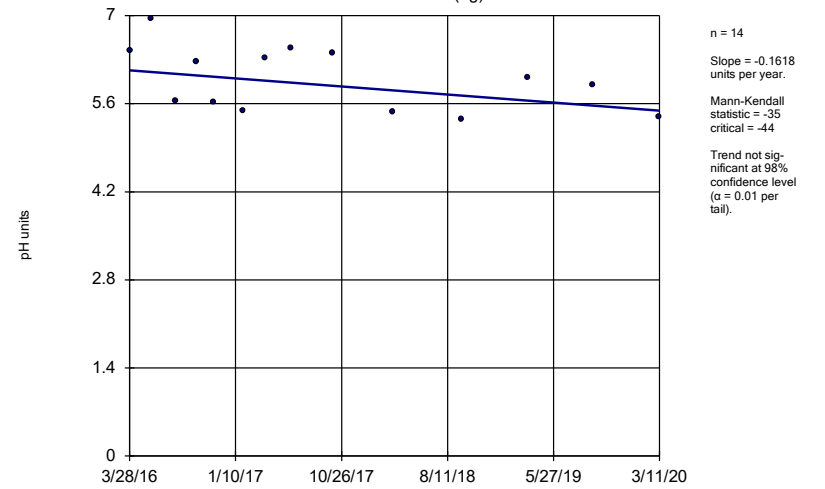
Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-50 (bg)



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

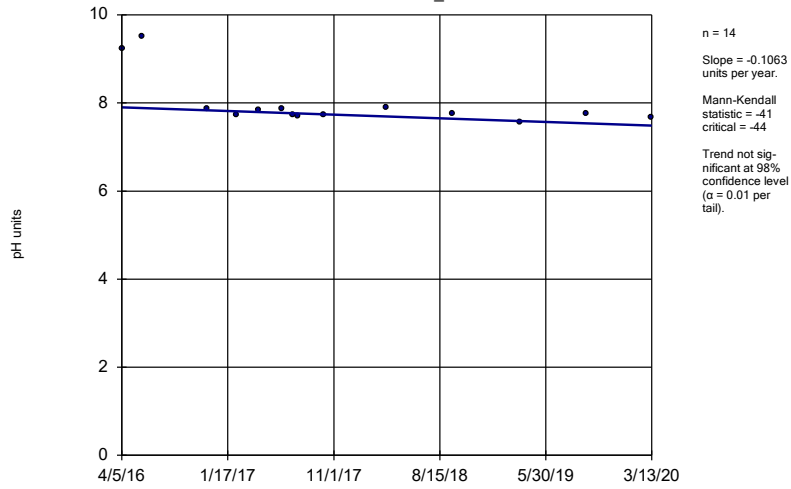
Sen's Slope Estimator GWA-50R (bg)



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

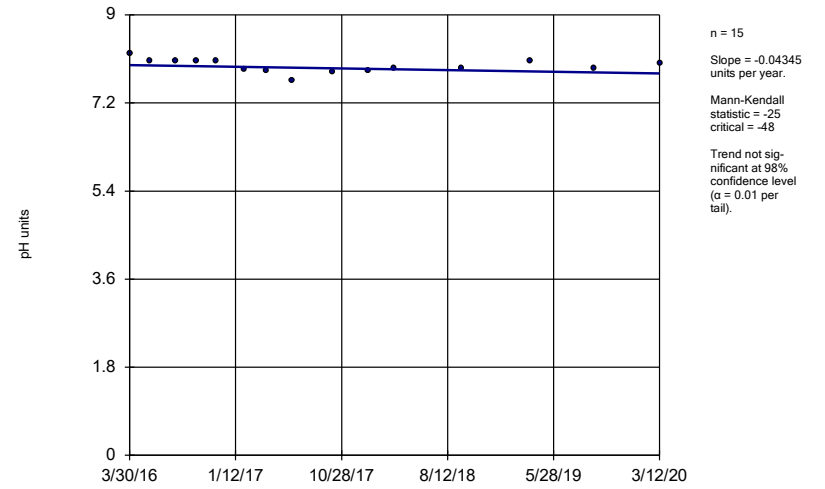
GWC-15_15Z



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

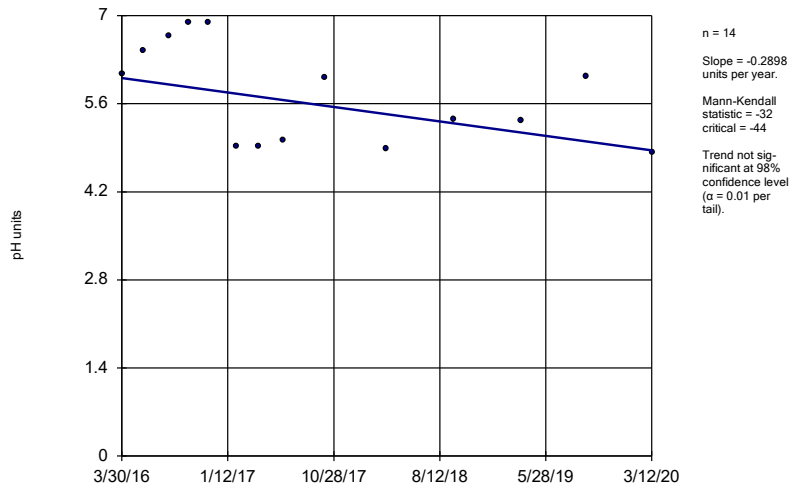
GWC-8RR



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

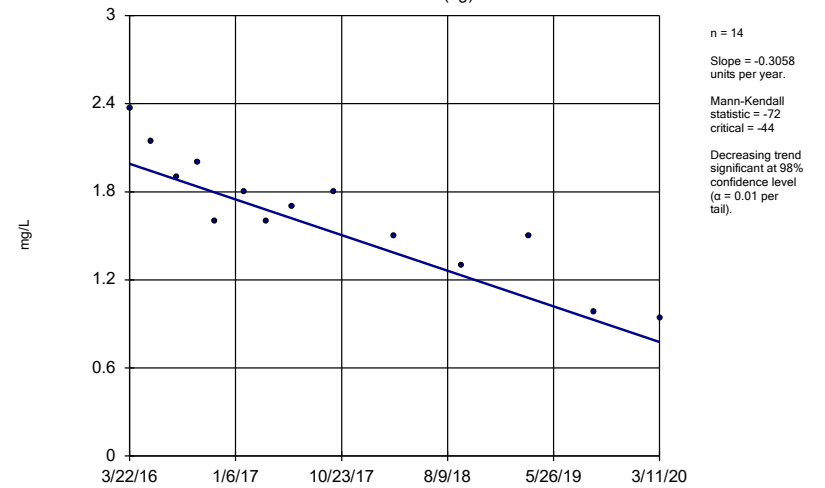
GWC-9



Constituent: pH Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

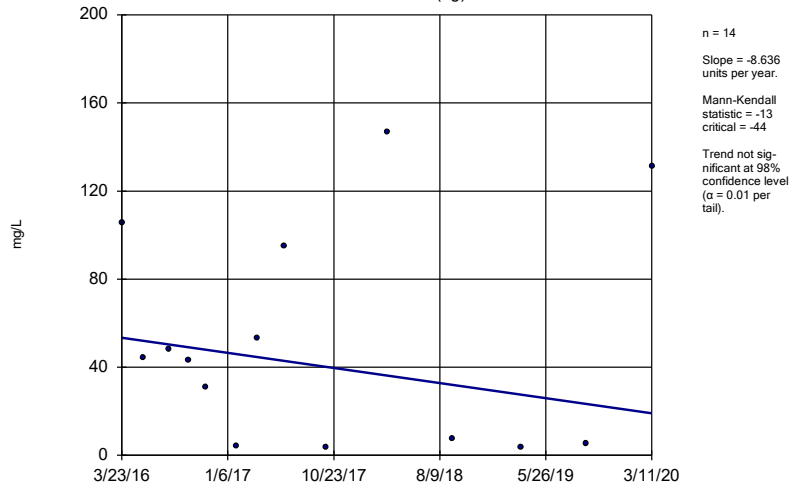
Sen's Slope Estimator

GWA-1 (bg)



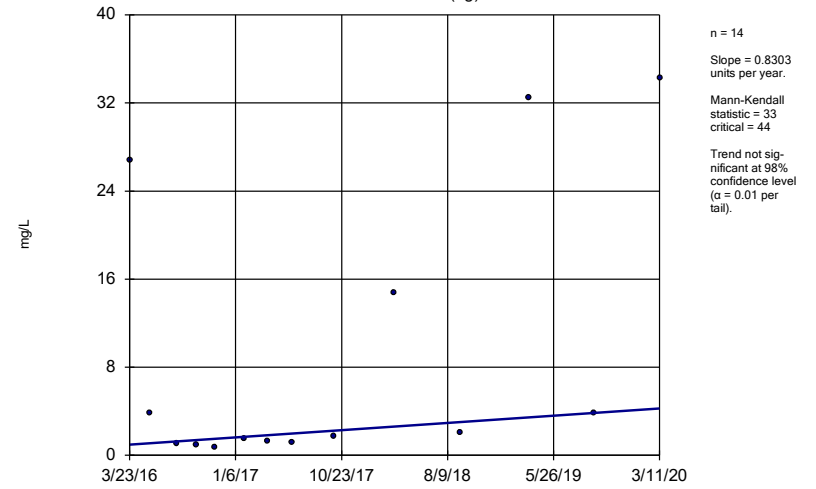
Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2 (bg)



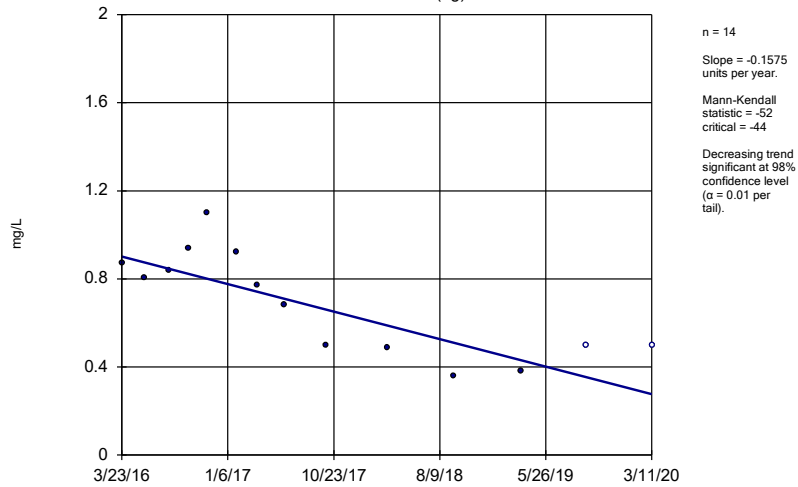
Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2R (bg)



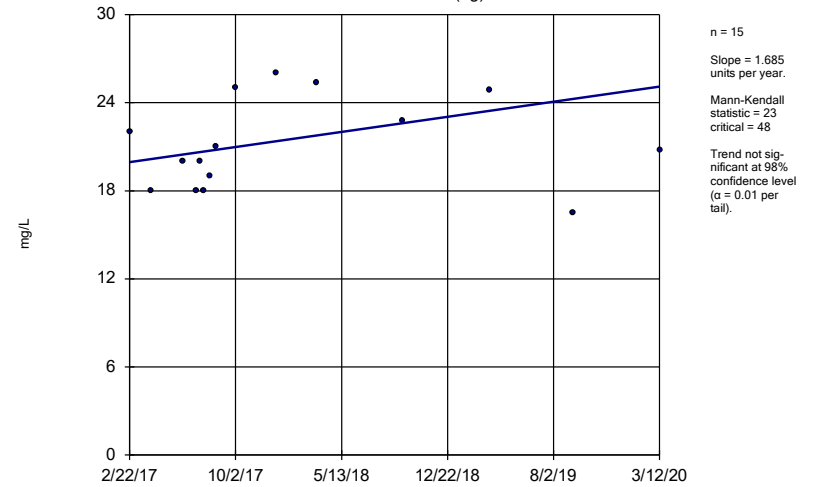
Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-3 (bg)



Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

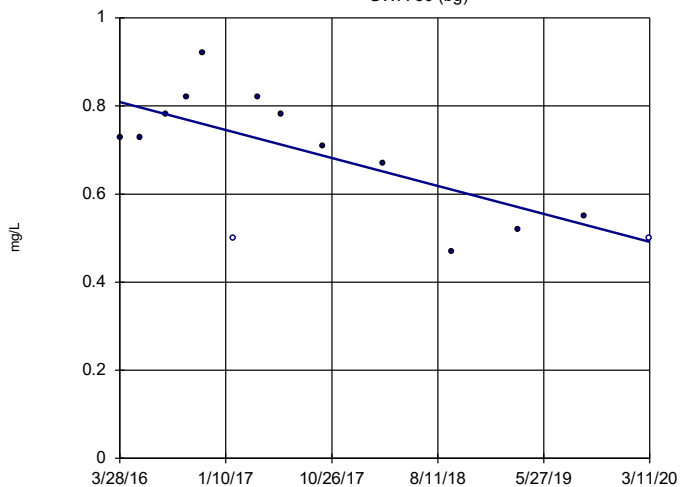
Sen's Slope Estimator
GWA-4RZ (bg)



Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50 (bg)

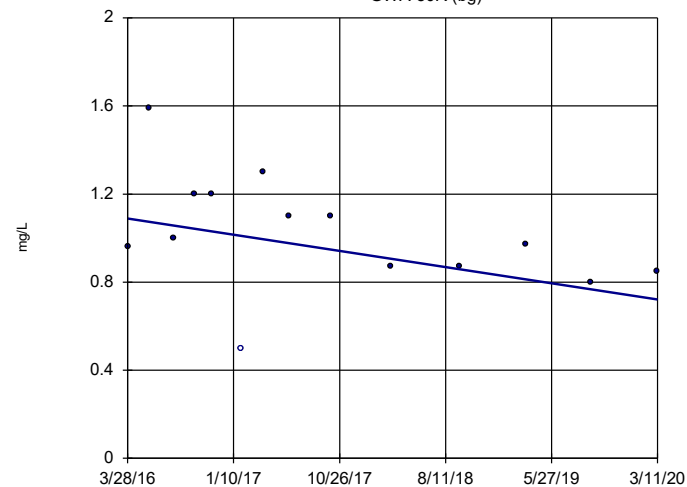


n = 14
Slope = -0.08022
units per year.
Mann-Kendall
statistic = -40
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50R (bg)

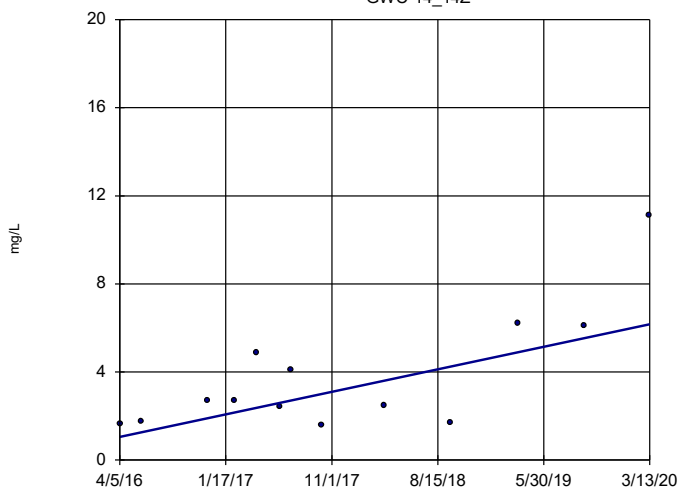


n = 14
Slope = -0.09287
units per year.
Mann-Kendall
statistic = -36
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-14_14Z



n = 13
Slope = 1.298
units per year.
Mann-Kendall
statistic = 31
critical = 39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate, as SO4 Analysis Run 4/6/2020 4:25 PM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

GROUNDWATER STATS CONSULTING

August 26, 2020

Southern Company Services
Attn: Ms. Lauren Petty
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Bowen Landfill Cells 3 & 4
March 2020 Event – Statistical Analysis

Dear Ms. Petty,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the March 2020 sample event for Georgia Power Company's Plant Bowen Landfill Cells 3 & 4. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the USEPA Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's CCR Appendix III parameters, in addition to 16 parameters in accordance with the Georgia EPD's Solid Waste Permit. The monitoring well network, as provided by Southern Company Services, consists of the following:

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Downgradient:** GWC-16R, GWC-17R, GWC-18, GWC-18R, GWC-19R, GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R
- **Upgradient:** GWA-36, GWA-36R, GWA-37, GWA-38, GWA-51RZ, GWA-52, GWA-53, GWA-53R, GWA-54, GWA-55, GWA-55R, GWA-56

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The following constituents are evaluated:

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

For the cases listed below, the most recent reporting limit is lower than historical reporting limits and is, therefore, substituted for nondetects in the record which results in slightly lower prediction limits:

- TDS in well GWA-37 – reporting limit decreased from <34 mg/L to <10 mg/L;
- Cadmium in wells GWA-37, GWA-38, GWA-18, GWC-21R, GWC-22R, GWC-25R - reporting limit decreased from <0.01 mg/L to <0.0025 mg/L;
- Cobalt in wells GWA-36, GWA-37, GWA-54, GWA-55, GWC-36R, GWC-51R, GWC-18R, GWC-25R - reporting limit decreased from <0.01 mg/L to <0.005 mg/L

In earlier analyses, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4)

eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 16
- # Downgradient wells: 11

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (chloride, pH, sulfate, and TDS)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, fluoride)
- # Constituents: 7
- # Downgradient wells: 11

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

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

and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Screening Summary Georgia EPD Constituents – Conducted in August 2019

Outliers & Trend Testing

Time series plots are used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers for all wells and parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. As a general rule, when the most recent values are identified as outliers, values are not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Due to changing reporting limits for many constituents, when the nondetects are replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) may require flagging as outliers if they are much higher than current reporting limits. Additionally, in some cases historical nondetects require flagging because the reporting limit substitution results in these values being considerably higher than reported values.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported nondetects. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated. A summary of flagged outliers follows this letter.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Several statistically significant decreasing trends were noted but adjustments were required only for barium in well GWA-53, copper in well GWA-37, and nickel in well GWC-16R because the magnitudes of the trends in other constituents were not large relative to the average concentrations at their respective wells. However, the decreasing trend for zinc at GWC-16R may require adjustment in the future, if it persists, in order to obtain a more conservative prediction limit. Statistically significant increasing trends were also noted for barium in wells GWC-24R and GWA-36, and zinc in wells GWC-19R, GWC-22R, and GWC-23R. Adjustments were only made to eliminate the trends for barium and zinc in well GWA-36 because the magnitude of the trends in other wells were not large relative to average concentrations at their respective wells. A summary of the background data ranges used for these well/constituent pairs follows this letter.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified statistically significant differences among upgradient well data for several of the constituents, suggesting intrawell methods would be the most appropriate statistical method for these constituents. For constituents where variation is not identified, interwell analyses would typically be recommended. However, because this is a lined landfill with pre-waste data showing that metals occur naturally in low level concentrations, and no records required any adjustments due to statistically significant increasing trends in downgradient well data, intrawell methods are recommended as the primary statistical method for all detected well/constituent pairs.

Background Update CCR Appendix III Constituents – Conducted in March 2020

Prior to updating background data, all data were evaluated for the purpose of updating background data sets. The reports were submitted at that time, and a summary is presented in this report.

Tukey's outlier test and visual screening were used to evaluate data through September 2019. Tukey's test was used for all wells for the intrawell parameters and for only the upgradient wells for the interwell parameters. Although Tukey's test noted several potential outliers, only three values were flagged as the rest appeared to be representative of natural variation in groundwater quality. Any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of flagged outliers follows this letter.

For constituents requiring intrawell prediction limits (chloride, pH, sulfate, and TDS), the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2017 to the new compliance samples at each well through September 2019. If the medians of the two groups are not significantly different at the 99% confidence level, background data are typically updated to include the newer compliance data. Statistically significant differences were found between the two groups for the following well/constituent pairs: chloride in upgradient well GWA-54; pH in upgradient well GWA-52 and downgradient well GWC-22R; sulfate in upgradient wells GWA-36 and GWA-54; and TDS in upgradient well GWA-55.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. The following cases with statistically significant Mann-Whitney results were updated because the newer data had a lower median, or the newer data were similar in concentration to portions of the historical data: chloride in upgradient well GWA-54; pH in upgradient well GWA-52 and downgradient well GWC-22R; and sulfate in upgradient wells GWA-36 and GWA-54.

Although TDS in well GWC-55 showed an increase in the median concentration, the overall temporal pattern and range of concentrations for TDS over the period is similar to that in other background wells. Additionally, a similar increase occurred in an upgradient well, thus indicating natural variation independent of the site. This well/constituent pair was, therefore, updated with newer data.

Evaluation of Georgia EPD Constituents – March 2020

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from

within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data, except for the cases mentioned above, within each well with detections through September 2018 (Figure D). Future compliance data will be compared to these intrawell background limits during each subsequent semi-annual sampling event. As previously discussed, no statistical analyses were included for well/constituent pairs with 100% nondetects.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. No statistical exceedances were noted in any of the downgradient wells except for antimony in well GWC-16R. A statistical exceedance was noted for barium in upgradient well GWA-56. When exceedances are noted upgradient of the facility, it may be an indication that groundwater quality is beginning to change naturally. Summaries of the Georgia EPD prediction limits follow this report.

When prediction limit exceedances occur in any of the downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at

the site. No significant trends were noted in any of the downgradient wells, and a summary of the trend test results follows this letter (Figure E).

Evaluation of Appendix III Parameters – March 2020

For chloride, pH, sulfate, and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through September 2019 (Figure F). The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. An exceedance was noted for chloride in upgradient well GWA-52 and for sulfate in upgradient well GWA-52 and downgradient well GWC-21R.

For boron, calcium, and fluoride, interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure G). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for calcium in downgradient wells GWC-16R, GWC-17R, GWC-21R, and GWC-23R. Summaries of both intrawell and interwell prediction limits follow this report.

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents (Figure H). A statistically significant increasing trend was noted for sulfate in downgradient well GWC-21R. Statistically significant decreasing trends were noted for calcium in upgradient wells GWA-36 and GWA-37; chloride in upgradient wells GWA-36R, GWA-37, and GWA-54; and sulfate in upgradient wells GWA-36, GWA-37, and GWA-54. A summary of the trend test results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Bowen Landfill at Cells 3 & 4. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

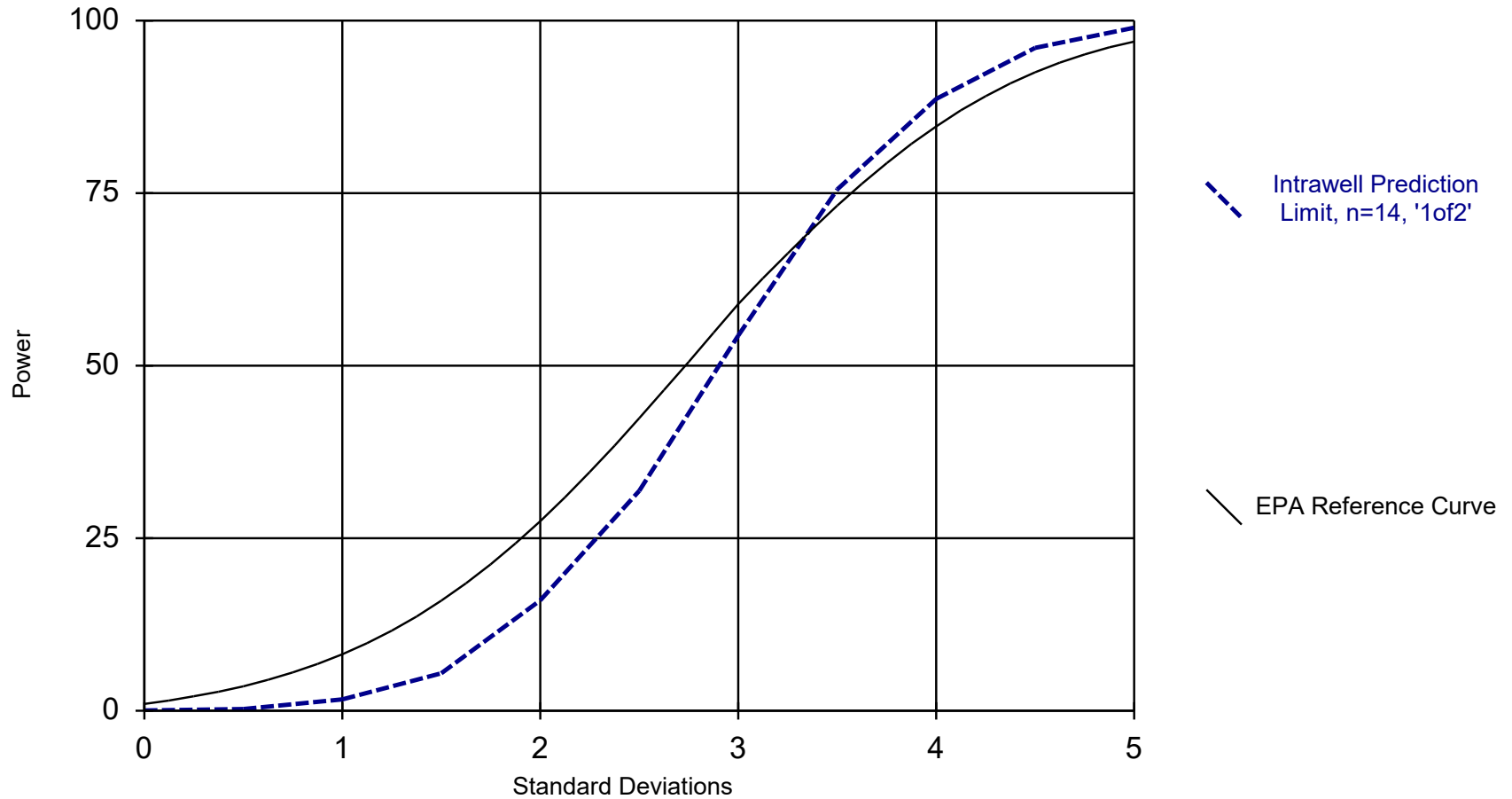


Andrew Collins
Groundwater Analyst



Kristina Rayner
Groundwater Statistician

State Parameter Power Curve

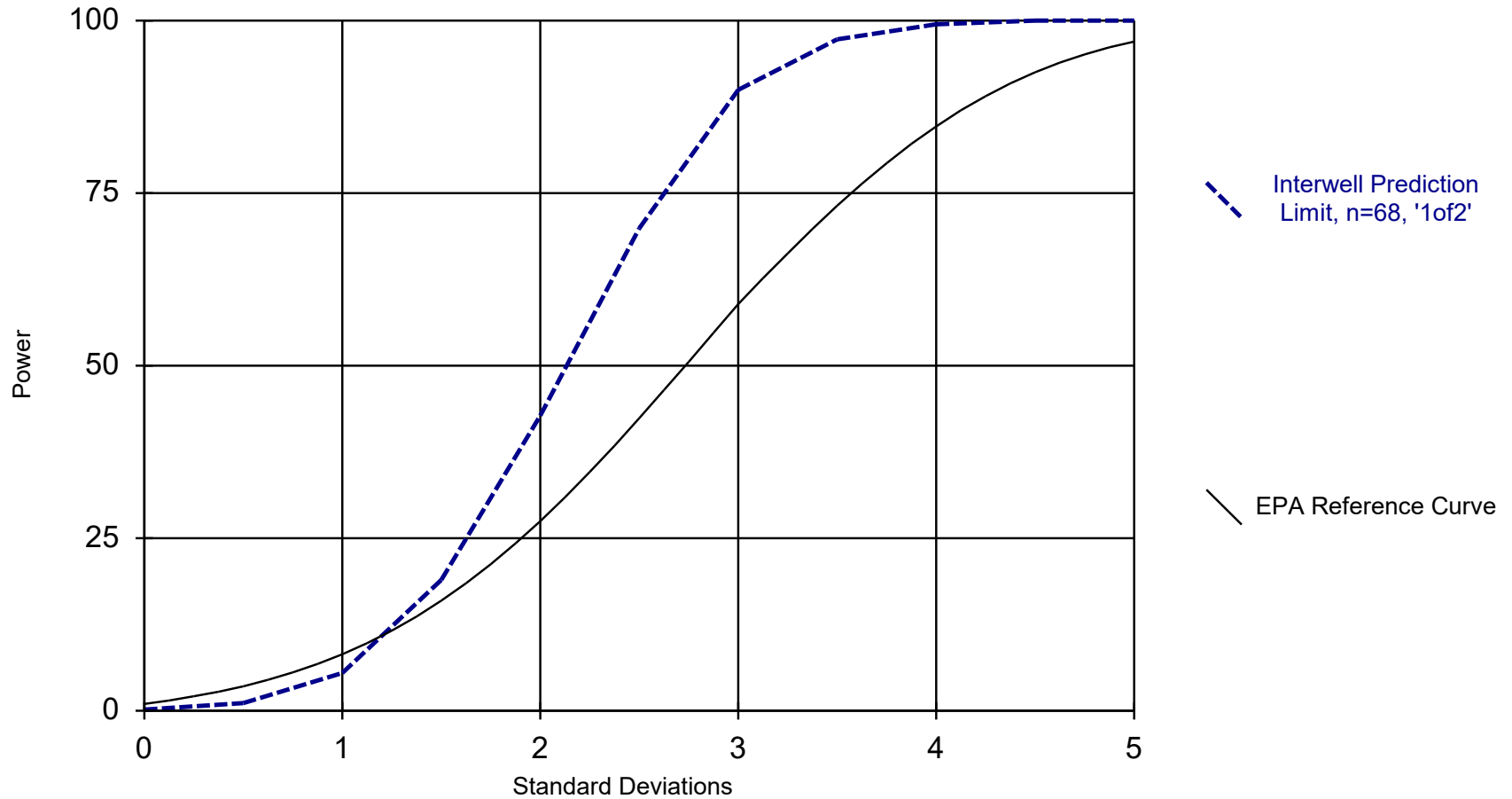


Kappa = 2.85, based on 11 compliance wells and 16 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/16/2020 1:40 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Appendix III Interwell Power Curve

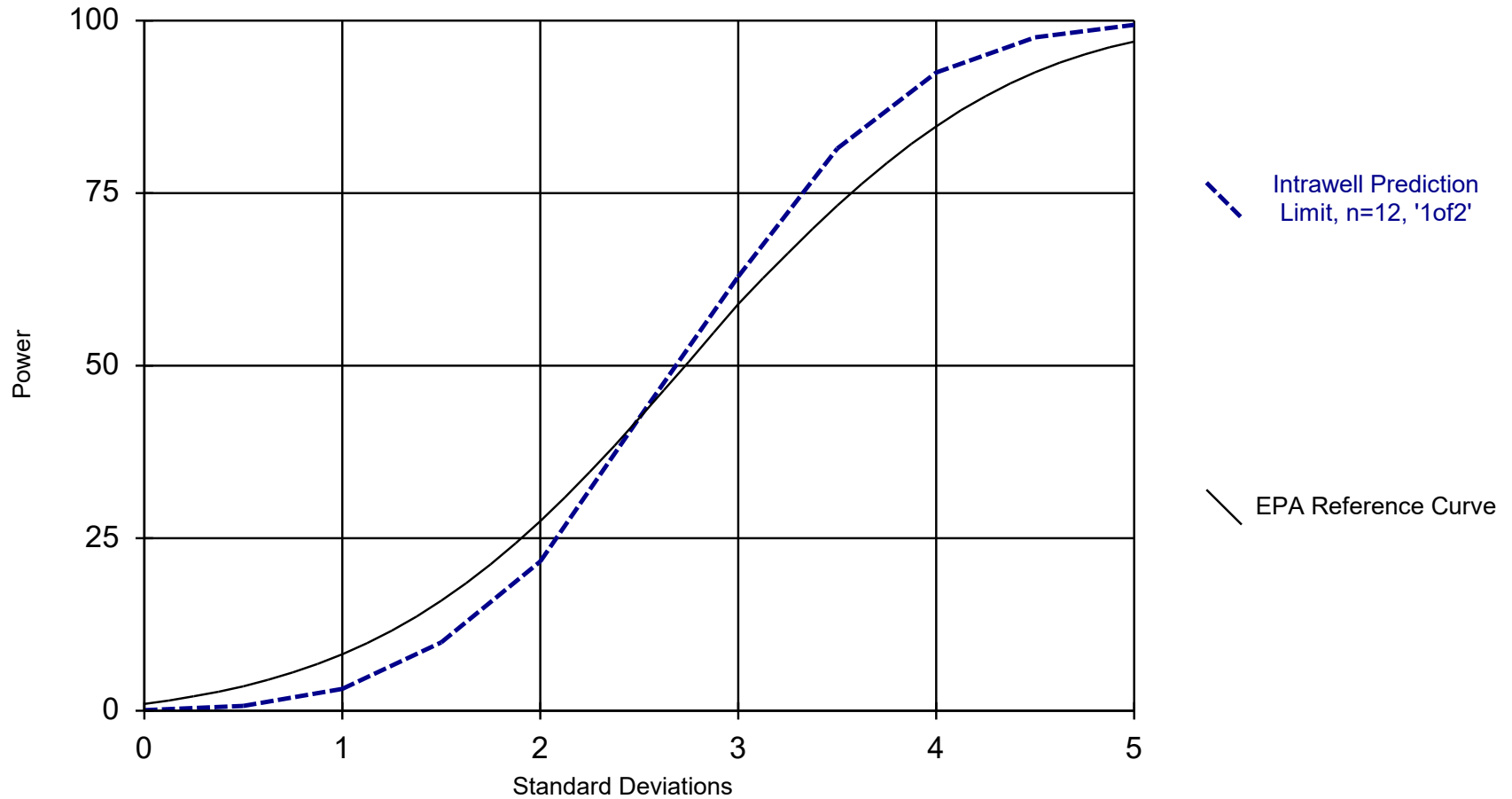


Kappa = 2.023, based on 11 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/16/2020 1:49 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Appendix III Intrawell Power Curve



Kappa = 2.643, based on 11 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/16/2020 1:40 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

100% Nondetect Well-Constituent Pairs

Date: 4/16/2020 10:03 AM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Antimony (mg/L)

GWA-36R, GWA-38, GWA-52, GWC-19R, GWC-20R, GWC-22R

Arsenic (mg/L)

GWA-36

Beryllium (mg/L)

GWA-52, GWA-53, GWA-54, GWC-16R, GWC-17R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R

Cadmium (mg/L)

GWA-52, GWA-53, GWA-53R, GWA-54, GWA-55, GWA-55R, GWA-56, GWC-16R, GWC-17R, GWC-18R, GWC-19R, GWC-20R, GWC-23R, GWC-24R

Chromium (mg/L)

GWC-24R

Cobalt (mg/L)

GWA-52, GWA-53, GWA-53R, GWA-56, GWC-17R, GWC-19R, GWC-20R, GWC-23R, GWC-24R

Copper (mg/L)

GWC-18, GWC-25R

Lead (mg/L)

GWA-52, GWA-54, GWC-20R

Mercury (mg/L)

GWA-52, GWA-53, GWA-53R, GWA-54, GWA-55, GWA-55R, GWA-56

Nickel (mg/L)

GWA-53R, GWC-17R, GWC-18R, GWC-20R

Selenium (mg/L)

GWA-36, GWA-36R, GWA-37, GWA-38, GWA-52, GWA-53, GWA-53R, GWA-54, GWC-16R, GWC-17R, GWC-18, GWC-18R, GWC-19R, GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R

Silver (mg/L)

GWA-36, GWA-36R, GWA-37, GWA-51RZ, GWA-52, GWA-53, GWA-53R, GWA-54, GWA-55, GWA-55R, GWA-56, GWC-18, GWC-19R, GWC-20R, GWC-21R, GWC-22R, GWC-23R, GWC-24R, GWC-25R

Thallium (mg/L)

GWA-37, GWA-38, GWA-53R, GWA-56, GWC-17R, GWC-18R, GWC-19R, GWC-24R, GWC-25R

Vanadium (mg/L)

GWA-36, GWC-18, GWC-19R, GWC-21R, GWC-22R, GWC-25R

Date Ranges

Date: 4/15/2020 2:26 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Barium (mg/L)

GWA-36 background:3/17/2015-9/6/2018

GWA-53 background:6/24/2015-9/11/2018

Copper (mg/L)

GWA-37 background:3/17/2015-9/6/2018

Nickel (mg/L)

GWC-16R background:3/3/2015-9/7/2018

Zinc (mg/L)

GWA-36 background:3/17/2015-9/6/2018

State Parameters Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/4/2020	0.019	Yes	20	n/a	n/a	50	n/a	n/a	0.004291	NP (normality) 1 of 2	
Barium (mg/L)	GWA-56	0.03746	n/a	3/4/2020	0.039	Yes	20	0.02309	0.005602	5	None	0.0002993	Param 1 of 2		

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-36	0.0032	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-37	0.0052	n/a	3/2/2020	0.0018	No	20	n/a	n/a	n/a	45	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWA-51RZ	0.0033	n/a	3/3/2020	0.003ND	No	19	n/a	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-53	0.003	n/a	3/4/2020	0.0019	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-53R	0.0034	n/a	3/4/2020	0.00053	No	20	n/a	n/a	n/a	60	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-54	0.003	n/a	3/3/2020	0.0011	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-55	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-55R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-56	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/4/2020	0.019	Yes	20	n/a	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWC-17R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.003	n/a	3/6/2020	0.00049	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18R	0.003	n/a	3/5/2020	0.00068	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-21R	0.0064	n/a	3/3/2020	0.0019	No	20	n/a	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWC-23R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.003ND	No	17	n/a	n/a	n/a	64.71	n/a	0.005914	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-25R	0.003	n/a	3/3/2020	0.003ND	No	19	n/a	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-36R	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.00053	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-38	0.0062	n/a	3/2/2020	0.00059	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-51RZ	0.008095	n/a	3/3/2020	0.00073	No	19	0.002535	0.002138	36.84	Kaplan-Meier	0.0002993	Param 1 of 2	
Arsenic (mg/L)	GWA-52	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-53	0.005	n/a	3/4/2020	0.00044	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-53R	0.005	n/a	3/4/2020	0.00043	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-54	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-55	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-56	0.005	n/a	3/4/2020	0.0004	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-16R	0.005	n/a	3/4/2020	0.00088	No	19	n/a	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-17R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.00042	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-19R	0.005	n/a	3/4/2020	0.00072	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-20R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-21R	0.005	n/a	3/3/2020	0.0015	No	19	n/a	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-22R	0.005	n/a	3/3/2020	0.0014	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-23R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Barium (mg/L)	GWA-36	0.01907	n/a	3/2/2020	0.019	No	15	0.01257	0.002339	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-36R	0.03424	n/a	3/2/2020	0.024	No	20	0.02211	0.004732	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-37	0.014	n/a	3/2/2020	0.005	No	20	0.008485	0.002151	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-38	0.01787	n/a	3/2/2020	0.012	No	19	0.01284	0.001936	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-51RZ	0.0345	n/a	3/3/2020	0.017	No	20	0.01511	0.007558	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-52	0.04903	n/a	3/2/2020	0.023	No	20	0.02779	0.008281	5	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-53	0.02258	n/a	3/4/2020	0.013	No	15	0.01479	0.002803	6.667	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-53R	0.01632	n/a	3/4/2020	0.015	No	20	0.0144	0.0007501	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-54	0.058	n/a	3/3/2020	0.031	No	20	n/a	n/a	5	n/a	0.004291	NP (normality) 1 of 2	
Barium (mg/L)	GWA-55	0.03737	n/a	3/3/2020	0.023	No	20	0.02333	0.005472	5	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-55R	0.08801	n/a	3/4/2020	0.029	No	20	0.05106	0.0144	5	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWA-56	0.03746	n/a	3/4/2020	0.039	Yes	20	0.02309	0.005602	5	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-16R	0.079	n/a	3/4/2020	0.045	No	20	0.2188	0.02428	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-17R	0.02153	n/a	3/5/2020	0.018	No	19	0.01975	0.0006818	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-18	0.04779	n/a	3/6/2020	0.015	No	19	0.0302	0.006763	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-18R	0.0173	n/a	3/5/2020	0.015	No	16	0.01425	0.001127	0	None	0.0002993	Param 1 of 2	

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Barium (mg/L)	GWC-19R	0.01846	n/a	3/4/2020	0.017	No	19	0.01597	0.0009569	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-20R	0.03595	n/a	3/5/2020	0.028	No	20	0.02989	0.002362	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-21R	0.0377	n/a	3/3/2020	0.022	No	20	n/a	n/a	0	n/a	0.004291	NP (normality) 1 of 2	
Barium (mg/L)	GWC-22R	0.06518	n/a	3/3/2020	0.044	No	19	0.0402	0.009605	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-23R	0.0421	n/a	3/5/2020	0.022	No	20	0.02645	0.006104	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-24R	0.03363	n/a	3/3/2020	0.02	No	19	0.02339	0.003934	0	None	0.0002993	Param 1 of 2	
Barium (mg/L)	GWC-25R	0.0167	n/a	3/3/2020	0.015	No	20	n/a	n/a	0	n/a	0.004291	NP (normality) 1 of 2	
Beryllium (mg/L)	GWA-36	0.003	n/a	3/2/2020	0.00024	No	20	n/a	n/a	35	n/a	0.004291	NP (normality) 1 of 2	
Beryllium (mg/L)	GWA-36R	0.0032	n/a	3/2/2020	0.00015	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2	
Beryllium (mg/L)	GWA-37	0.003	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-38	0.003	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-51RZ	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-53R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-55	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-55R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWA-56	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWC-18	0.003	n/a	3/6/2020	0.003ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWC-18R	0.003	n/a	3/5/2020	0.00013	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWC-19R	0.003	n/a	3/4/2020	0.00013	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Beryllium (mg/L)	GWC-20R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWA-36	0.001664	n/a	3/2/2020	0.0012	No	20	0.0008898	0.000302	15	None	0.0002993	Param 1 of 2	
Cadmium (mg/L)	GWA-36R	0.001	n/a	3/2/2020	0.00018	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2	
Cadmium (mg/L)	GWA-37	0.0025	n/a	3/2/2020	0.0025ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWA-38	0.0025	n/a	3/2/2020	0.0025ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWA-51RZ	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWC-18	0.0025	n/a	3/6/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWC-21R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWC-22R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Cadmium (mg/L)	GWC-25R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-36	0.01	n/a	3/2/2020	0.01ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.00047	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-37	0.01	n/a	3/2/2020	0.01ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.0014	No	20	n/a	n/a	20	n/a	0.004291	NP (normality) 1 of 2	
Chromium (mg/L)	GWA-51RZ	0.02	n/a	3/3/2020	0.01ND	No	17	n/a	n/a	58.82	n/a	0.005914	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.0011	No	20	n/a	n/a	60	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.00076	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.0012	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.0017	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2	
Chromium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.00085	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.00079	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.0014	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.00063	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-18	0.005104	n/a	3/6/2020	0.0019	No	16	0.002947	0.0007961	0	None	0.0002993	Param 1 of 2	
Chromium (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.0007	No	16	n/a	n/a	68.75	n/a	0.006456	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.001	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.00075	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-21R	0.01	n/a	3/3/2020	0.00058	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.00057	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00086	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2	
Chromium (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.00078	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Cobalt (mg/L)	GWA-36	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2	
Cobalt (mg/L)	GWA-36R	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2	
Cobalt (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	55	n/a	0.004291	NP (NDs) 1 of 2	
Cobalt (mg/L)	GWA-38	0.004336	n/a	3/2/2020	0.0011	No	17	0.04368	0.008291	0	None	0.0002993	Param 1 of 2	

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Cobalt (mg/L)	GWA-51RZ	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-54	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-55	0.00715	n/a	3/3/2020	0.0048	No	20	n/a	n/a	35	n/a	0.004291	NP (normality) 1 of 2
Cobalt (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-16R	0.00818	n/a	3/4/2020	0.005ND	No	20	0.0431	0.01846	15	None	0.0002993	Param 1 of 2
Cobalt (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-21R	0.0183	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.00078	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Copper (mg/L)	GWA-36	0.025	n/a	3/2/2020	0.025ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-36R	0.025	n/a	3/2/2020	0.00043	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-37	0.02858	n/a	3/2/2020	0.0068	No	10	0.01155	0.005241	0	None	0.0002993	Param 1 of 2
Copper (mg/L)	GWA-38	0.025	n/a	3/2/2020	0.00019	No	15	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-51RZ	0.025	n/a	3/3/2020	0.00041	No	14	n/a	n/a	64.29	n/a	0.008612	NP (NDs) 1 of 2
Copper (mg/L)	GWA-52	0.025	n/a	3/2/2020	0.00024	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-53	0.025	n/a	3/4/2020	0.00053	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-53R	0.025	n/a	3/4/2020	0.025ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-54	0.025	n/a	3/3/2020	0.00025	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-55	0.025	n/a	3/3/2020	0.025ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-55R	0.025	n/a	3/4/2020	0.025ND	No	15	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-56	0.025	n/a	3/4/2020	0.0003	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-16R	0.025	n/a	3/4/2020	0.0024	No	15	n/a	n/a	13.33	n/a	0.007533	NP (normality) 1 of 2
Copper (mg/L)	GWC-17R	0.025	n/a	3/5/2020	0.00023	No	15	n/a	n/a	40	n/a	0.007533	NP (normality) 1 of 2
Copper (mg/L)	GWC-18R	0.025	n/a	3/5/2020	0.025ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-19R	0.025	n/a	3/4/2020	0.00036	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-20R	0.025	n/a	3/5/2020	0.025ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-21R	0.025	n/a	3/3/2020	0.00049	No	15	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-22R	0.025	n/a	3/3/2020	0.00022	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-23R	0.025	n/a	3/5/2020	0.0003	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-24R	0.025	n/a	3/3/2020	0.00097	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Lead (mg/L)	GWA-36	0.005	n/a	3/2/2020	0.000052	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-36R	0.0069	n/a	3/2/2020	0.00031	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-38	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-51RZ	0.005	n/a	3/3/2020	0.000051	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-53	0.005	n/a	3/4/2020	0.00016	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-53R	0.005	n/a	3/4/2020	0.000066	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-55	0.005	n/a	3/3/2020	0.000048	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-56	0.005	n/a	3/4/2020	0.00005	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-16R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-17R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.00013	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.00032	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-19R	0.005	n/a	3/4/2020	0.0003	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-21R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-22R	0.005	n/a	3/3/2020	0.000059	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-23R	0.005	n/a	3/5/2020	0.000052	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.000057	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.000059	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-36	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-36R	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-37	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-38	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Mercury (mg/L)	GWA-51RZ	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-16R	0.0005	n/a	3/4/2020	0.0005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-17R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.0005	n/a	3/6/2020	0.0005ND	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-19R	0.0005	n/a	3/4/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-20R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-21R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-22R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-23R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-24R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-25R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-36	0.0142	n/a	3/2/2020	0.00071	No	15	n/a	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.00051	No	15	n/a	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-37	0.02948	n/a	3/2/2020	0.0079	No	15	0.01434	0.005448	0	None	0.0002993	Param 1 of 2	
Nickel (mg/L)	GWA-38	0.01429	n/a	3/2/2020	0.001	No	15	0.05358	0.02374	26.67	Kaplan-Meier	0.0002993	Param 1 of 2	
Nickel (mg/L)	GWA-51RZ	0.01	n/a	3/3/2020	0.01ND	No	14	n/a	n/a	n/a	85.71	n/a	0.008612	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.00061	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-16R	0.02928	n/a	3/4/2020	0.0032	No	11	0.01443	0.004761	0	None	0.0002993	Param 1 of 2	
Nickel (mg/L)	GWC-18	0.01	n/a	3/6/2020	0.0005	No	15	n/a	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.00071	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-21R	0.01	n/a	3/3/2020	0.00099	No	14	n/a	n/a	n/a	42.86	n/a	0.008612	NP (normality) 1 of 2
Nickel (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.001	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00075	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-51RZ	0.01	n/a	3/3/2020	0.0053	No	20	n/a	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Selenium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.0025	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.0018	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Silver (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-36	0.001	n/a	3/2/2020	0.001ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-36R	0.001	n/a	3/2/2020	0.001ND	No	19	n/a	n/a	n/a	89.47	n/a	0.004832	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-51RZ	0.001	n/a	3/3/2020	0.00012	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-52	0.001	n/a	3/2/2020	0.001ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-53	0.001	n/a	3/4/2020	0.001ND	No	20	n/a	n/a	n/a	55	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-54	0.001	n/a	3/3/2020	0.000079	No	20	n/a	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWA-55	0.001	n/a	3/3/2020	0.000065	No	20	n/a	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-55R	0.001	n/a	3/4/2020	0.001ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-16R	0.00116	n/a	3/4/2020	0.00014	No	20	-8.321	0.6089	20	Kaplan-Meier	0.0002993	Param 1 of 2	
Thallium (mg/L)	GWC-18	0.001	n/a	3/6/2020	0.000076	No	20	n/a	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-20R	0.001	n/a	3/5/2020	0.001ND	No	20	n/a	n/a	n/a	45	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-21R	0.001	n/a	3/3/2020	0.000071	No	20	n/a	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-22R	0.001	n/a	3/3/2020	0.000072	No	20	n/a	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-23R	0.001	n/a	3/5/2020	0.00018	No	18	n/a	n/a	n/a	33.33	n/a	0.005373	NP (normality) 1 of 2
Vanadium (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-37	0.01	n/a	3/2/2020	0.00074	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Vanadium (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.0014	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-51RZ	0.01862	n/a	3/3/2020	0.00091	No	13	0.006365	0.004195	46.15	Kaplan-Meier	0.0002993	0.0002993	Param 1 of 2
Vanadium (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.0023	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00071	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.0011	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-36	0.6895	n/a	3/2/2020	0.54	No	15	0.2609	0.1542	0	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-36R	0.2673	n/a	3/2/2020	0.056	No	10	0.2552	0.08056	0	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-37	0.01469	n/a	3/2/2020	0.0063	No	15	0.007437	0.002609	6.667	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-38	0.01324	n/a	3/2/2020	0.0032	No	14	0.004518	0.003061	21.43	Kaplan-Meier	0.0002993	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-51RZ	0.02982	n/a	3/3/2020	0.0035	No	13	0.01128	0.00635	30.77	Kaplan-Meier	0.0002993	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.0024	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.004	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.0027	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.0024	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.005	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.0028	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.0029	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-16R	0.09557	n/a	3/4/2020	0.015	No	15	0.0002999	0.0002062	6.667	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-17R	0.02404	n/a	3/5/2020	0.0035	No	15	0.1752	0.04079	13.33	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-18	0.02694	n/a	3/6/2020	0.0045	No	15	-5.394	0.6405	13.33	None	n/a	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.0024	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.0072	No	15	n/a	n/a	33.33	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.0023	No	14	n/a	n/a	28.57	n/a	n/a	0.008612	NP (normality) 1 of 2
Zinc (mg/L)	GWC-21R	0.006515	n/a	3/3/2020	0.0044	No	15	-5.726	0.2492	20	Kaplan-Meier	0.0002993	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.0029	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-23R	0.008062	n/a	3/5/2020	0.0084	No	15	-6.256	0.5164	40	Kaplan-Meier	0.0002993	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.0033	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.0027	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP (NDs) 1 of 2

Trend Tests Summary Table - State Parameters - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:27 AM

<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>
Antimony (mg/L)	GWA-37 (bg)	-0.0006393	-120	-89	Yes	23	39.13	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36 (bg)	0.002034	153	89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-38 (bg)	-0.0006432	-124	-84	Yes	22	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-52 (bg)	-0.004457	-146	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53 (bg)	-0.003624	-180	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55R (bg)	-0.006343	-125	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-56 (bg)	0.004061	157	89	Yes	23	4.348	n/a	n/a	0.02	NP

Trend Tests Summary Table - State Parameters - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:27 AM

<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>
Antimony (mg/L)	GWA-36 (bg)	0	-17	-89	No	23	86.96	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-36R (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-37 (bg)	-0.0006393	-120	-89	Yes	23	39.13	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-38 (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-51RZ (bg)	0	-39	-84	No	22	68.18	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-52 (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-53 (bg)	0	-53	-89	No	23	73.91	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-53R (bg)	0	-54	-89	No	23	52.17	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-54 (bg)	0	-41	-89	No	23	86.96	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-55 (bg)	0	4	89	No	23	95.65	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-55R (bg)	0	-26	-89	No	23	82.61	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-56 (bg)	0	-6	-89	No	23	95.65	n/a	n/a	0.02	NP
Antimony (mg/L)	GWC-16R	0.0001319	50	89	No	23	43.48	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36 (bg)	0.002034	153	89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36R (bg)	0.0005147	46	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-37 (bg)	-0.0004011	-55	-89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-38 (bg)	-0.0006432	-124	-84	Yes	22	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-51RZ (bg)	0.002317	58	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-52 (bg)	-0.004457	-146	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53 (bg)	-0.003624	-180	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53R (bg)	0.0002544	83	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-54 (bg)	-0.001785	-51	-89	No	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55 (bg)	-0.001184	-59	-89	No	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55R (bg)	-0.006343	-125	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-56 (bg)	0.004061	157	89	Yes	23	4.348	n/a	n/a	0.02	NP

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 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>Bq</u>	<u>N Bq</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWA-52	3.83	n/a	3/2/2020	4.9	Yes	13	2.279	0.5996	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-52	12.64	n/a	3/2/2020	16.3	Yes	13	6.378	2.42	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/3/2020	11.3	Yes	13	3.733	1.614	7.692	None	0.0006839	Param 1 of 2	

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Chloride (mg/L)	GWA-36	2.751	n/a	3/2/2020	2.1	No	13	2.195	0.2147	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-36R	3.698	n/a	3/2/2020	2.4	No	13	3.017	0.2633	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-37	1.522	n/a	3/2/2020	0.78	No	13	1.022	0.1933	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-38	3.142	n/a	3/2/2020	2.5	No	13	2.473	0.2586	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-51RZ	4.153	n/a	3/3/2020	2.6	No	13	3.179	0.3765	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-52	3.83	n/a	3/2/2020	4.9	Yes	13	2.279	0.5996	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-53	2.851	n/a	3/4/2020	2.2	No	13	2.48	0.1434	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-53R	3.327	n/a	3/4/2020	2.3	No	13	0.9493	0.09766	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-54	1.953	n/a	3/3/2020	0.77	No	13	1.201	0.2909	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-55	3.939	n/a	3/3/2020	2.7	No	13	3.137	0.3098	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-55R	3.604	n/a	3/4/2020	2.6	No	13	2.938	0.2574	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-56	10.33	n/a	3/4/2020	4.5	No	13	6.322	1.55	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-16R	2.959	n/a	3/4/2020	0.79	No	13	1.914	0.4039	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-17R	7.985	n/a	3/5/2020	4.5	No	13	6.269	0.6635	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-18	2.764	n/a	3/6/2020	2.2	No	13	2.171	0.2291	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-18R	3.3	n/a	3/5/2020	2.2	No	13	n/a	n/a	0	n/a	0.009692	NP (normality) 1 of 2	
Chloride (mg/L)	GWC-19R	3.064	n/a	3/4/2020	2.3	No	13	2.447	0.2387	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-20R	2.711	n/a	3/5/2020	1.5	No	13	1.797	0.3534	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-21R	5.133	n/a	3/3/2020	3.9	No	13	4.046	0.42	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-22R	3.3	n/a	3/3/2020	2.5	No	13	n/a	n/a	0	n/a	0.009692	NP (normality) 1 of 2	
Chloride (mg/L)	GWC-23R	2.938	n/a	3/5/2020	1.3	No	13	2.051	0.3427	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-24R	3.423	n/a	3/3/2020	2.1	No	13	6.078	2.178	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-25R	3.206	n/a	3/3/2020	2.4	No	13	2.661	0.2106	0	None	0.0006839	Param 1 of 2	
pH (pH units)	GWA-36	7.43	6.39	3/2/2020	6.58	No	13	6.91	0.2008	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-36R	7.61	7.078	3/2/2020	7.24	No	13	7.344	0.1029	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-37	6.403	4.874	3/2/2020	5.52	No	13	5.638	0.2954	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-38	6.226	4.732	3/2/2020	5.49	No	13	5.479	0.2887	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-51RZ	7.749	7.257	3/3/2020	7.73	No	14	7.503	0.09723	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-52	7.772	7.234	3/2/2020	7.44	No	13	7.503	0.104	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-53	7.944	7.476	3/4/2020	7.63	No	13	7.71	0.09055	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-53R	7.946	7.603	3/4/2020	7.72	No	13	7.775	0.06628	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-54	7.939	7.275	3/3/2020	7.59	No	13	7.607	0.1283	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-55	7.85	6.813	3/3/2020	6.95	No	13	7.332	0.2005	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-55R	8.134	7.032	3/4/2020	7.27	No	13	7.583	0.2129	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-56	8.435	7.551	3/4/2020	7.95	No	14	7.993	0.1746	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-16R	7.505	6.817	3/4/2020	7.37	No	13	7.161	0.1329	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-17R	7.311	7.071	3/5/2020	7.3	No	13	7.191	0.04645	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-18	7.616	5.885	3/6/2020	7.01	No	13	6.751	0.3346	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-18R	8.062	7.418	3/5/2020	7.77	No	13	7.74	0.1244	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-19R	7.885	7.519	3/4/2020	7.65	No	13	7.702	0.07073	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-20R	7.945	7.323	3/5/2020	7.6	No	14	7.634	0.1228	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-21R	7.342	6.761	3/3/2020	7.1	No	13	7.052	0.1123	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-22R	8.056	7.094	3/3/2020	7.15	No	14	7.575	0.19	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-23R	7.832	6.951	3/5/2020	7.24	No	13	7.392	0.1702	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-24R	8.014	6.761	3/3/2020	7.55	No	13	7.388	0.2421	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-25R	7.874	7.241	3/3/2020	7.56	No	13	7.558	0.1224	0	None	0.000342	Param 1 of 2	
Sulfate (mg/L)	GWA-36	2.854	n/a	3/2/2020	0.5ND	No	13	1.316	0.5945	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-36R	9.874	n/a	3/2/2020	7.9	No	13	1.713	0.5527	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-37	1.16	n/a	3/2/2020	0.5ND	No	13	0.661	0.1927	7.692	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-38	2.958	n/a	3/2/2020	0.5	No	13	1.285	0.6468	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-51RZ	32.12	n/a	3/3/2020	21.5	No	13	20.19	4.61	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-52	12.64	n/a	3/2/2020	16.3	Yes	13	6.378	2.42	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-53	2.285	n/a	3/4/2020	1.5	No	13	1.903	0.1477	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-53R	2.388	n/a	3/4/2020	1.7	No	13	1.939	0.1737	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-54	9.872	n/a	3/3/2020	1.7	No	13	5.531	1.678	0	None	0.0006839	Param 1 of 2	

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Sulfate (mg/L)	GWA-55	48.37	n/a	3/3/2020	29	No	13	19.75	11.06	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWA-55R	29.73	n/a	3/4/2020	23.4	No	13	19.94	3.786	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWA-56	149.4	n/a	3/4/2020	69.4	No	13	84.7	25.01	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-16R	13.9	n/a	3/4/2020	8.4	No	13	7.229	2.577	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-17R	9.253	n/a	3/5/2020	7.7	No	12	1.876	0.1321	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-18	2.59	n/a	3/6/2020	2	No	13	2.009	0.2247	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-18R	2.805	n/a	3/5/2020	1.9	No	12	2.362	0.1675	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-19R	4.3	n/a	3/4/2020	3.6	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-20R	1.97	n/a	3/5/2020	1.1	No	13	1.943	0.7494	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/3/2020	11.3	Yes	13	3.733	1.614	7.692	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-22R	2.79	n/a	3/3/2020	1.7	No	12	2.172	0.2339	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/5/2020	10.8	No	13	13.96	4.844	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-24R	16.95	n/a	3/3/2020	2	No	13	1.955	0.8353	0	None	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-25R	2.06	n/a	3/3/2020	1.6	No	13	1.614	0.1727	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-36	155.2	n/a	3/2/2020	65	No	13	96.92	22.54	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-36R	235.5	n/a	3/2/2020	170	No	13	153.8	31.56	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-37	81.94	n/a	3/2/2020	5ND	No	12	4.428	1.75	33.33	Kaplan-Meier	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-38	119.7	n/a	3/2/2020	32	No	13	6.448	1.736	38.46	Kaplan-Meier	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-51RZ	343.9	n/a	3/3/2020	211	No	13	216.5	49.22	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-52	179.8	n/a	3/2/2020	142	No	12	141.4	14.53	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-53	174.6	n/a	3/4/2020	146	No	13	130.5	17.04	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-53R	193.3	n/a	3/4/2020	157	No	12	134.6	22.2	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-54	181.6	n/a	3/3/2020	91	No	13	125.2	21.8	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-55	277	n/a	3/3/2020	210	No	13	192.6	32.62	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-55R	247.1	n/a	3/4/2020	207	No	13	176.1	27.46	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-56	498.4	n/a	3/4/2020	325	No	13	328.7	65.59	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-16R	365	n/a	3/4/2020	326	No	13	290.5	28.8	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-17R	384.7	n/a	3/5/2020	307	No	13	330.2	21.04	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-18	161.2	n/a	3/6/2020	109	No	13	93.77	26.05	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-18R	191.3	n/a	3/5/2020	143	No	13	142.6	18.81	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-19R	229.2	n/a	3/4/2020	157	No	13	168.6	23.42	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-20R	234.6	n/a	3/5/2020	171	No	13	195.7	15.04	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-21R	435.3	n/a	3/3/2020	292	No	13	286.9	57.36	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-22R	199.8	n/a	3/3/2020	181	No	13	163.1	14.18	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-23R	374.2	n/a	3/5/2020	265	No	13	294.5	30.84	0	None	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-24R	209	n/a	3/3/2020	146	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Total Dissolved Solids (mg/l)	GWC-25R	194.6	n/a	3/3/2020	183	No	13	23678	5490	0	None	None	0.0006839	Param 1 of 2

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 4/15/2020, 10:53 AM

<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</u>	<u>N Bg</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWC-16R	48.7	n/a	3/4/2020	60.6	Yes	168	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-17R	48.7	n/a	3/5/2020	71.4	Yes	168	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-21R	48.7	n/a	3/3/2020	70.2	Yes	168	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-23R	48.7	n/a	3/5/2020	63.7	Yes	168	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2

Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 4/15/2020, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-16R	0.04	n/a	3/4/2020	0.027	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.04	n/a	3/6/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.04	n/a	3/4/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.04	n/a	3/3/2020	0.0096	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.04	n/a	3/3/2020	0.0066	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.04	n/a	3/3/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.04	n/a	3/3/2020	0.04ND	No	168	n/a	n/a	64.88	n/a	64.88	n/a	0.00007003	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-16R	48.7	n/a	3/4/2020	60.6	Yes	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-17R	48.7	n/a	3/5/2020	71.4	Yes	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18	48.7	n/a	3/6/2020	23.5	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18R	48.7	n/a	3/5/2020	32	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-19R	48.7	n/a	3/4/2020	34	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-20R	48.7	n/a	3/5/2020	38.9	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-21R	48.7	n/a	3/3/2020	70.2	Yes	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-22R	48.7	n/a	3/3/2020	37.2	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-23R	48.7	n/a	3/5/2020	63.7	Yes	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-24R	48.7	n/a	3/3/2020	33.3	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-25R	48.7	n/a	3/3/2020	37.6	No	168	n/a	n/a	0	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.4	n/a	3/4/2020	0.29	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-17R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-18	0.4	n/a	3/6/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-18R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-19R	0.4	n/a	3/4/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-20R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-21R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-22R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-23R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-24R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-25R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	52.38	n/a	52.38	n/a	0.00007003	NP (NDs) 1 of 2

Trend Tests Summary Table - Appendix III - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/15/2020, 2:22 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-36 (bg)	-2.355	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-37 (bg)	-0.05434	-68	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1603	-49	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-37 (bg)	-0.1106	-58	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1941	-63	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.4336	-70	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.124	-58	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.402	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-21R	1.604	56	44	Yes	14	7.143	n/a	n/a	0.02	NP

Trend Tests Summary Table - Appendix III - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/15/2020, 2:22 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-36 (bg)	-2.355	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-36R (bg)	-0.5553	-24	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-37 (bg)	-0.05434	-68	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-38 (bg)	0.1249	5	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-51RZ (bg)	2.285	36	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-52 (bg)	0.2011	10	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-53 (bg)	0	-1	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-53R (bg)	0.1594	6	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-54 (bg)	-0.3479	-16	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-55 (bg)	2.414	32	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-55R (bg)	1.461	21	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-56 (bg)	-1.814	-25	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-16R	2.861	43	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-17R	1.187	19	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-21R	3.089	41	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-23R	2.072	35	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36 (bg)	-0.08208	-28	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1603	-49	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-37 (bg)	-0.1106	-58	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-38 (bg)	0.09706	34	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-51RZ (bg)	0.05993	5	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-52 (bg)	0.0005895	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-53 (bg)	-0.05935	-22	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-53R (bg)	-0.06331	-25	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1941	-63	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-55 (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-55R (bg)	0.08548	30	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-56 (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.4336	-70	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36R (bg)	0.4815	21	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.124	-58	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-38 (bg)	-0.3068	-33	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.828	42	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-52 (bg)	0.5794	11	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-53 (bg)	-0.0671	-30	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-53R (bg)	-0.06734	-23	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.402	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-55 (bg)	1.076	7	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-55R (bg)	1.394	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-56 (bg)	5.378	17	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-21R	1.604	56	44	Yes	14	7.143	n/a	n/a	0.02	NP

Excluded Data

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 9:41 AM

	GWC-19R Barium (mg/L)	GWC-22R Barium (mg/L)	GWC-24R Barium (mg/L)	GWA-51RZ Chromium (mg/L)	GWC-18 Chromium (mg/L)	GWC-18R Chromium (mg/L)	GWA-38 Cobalt (mg/L)	GWC-17R Fluoride (mg/L)	GWC-21R Nickel (mg/L)	GWC-17R Sulfate (mg/L)
9/15/2014										
9/17/2014				<0.01 (o)						
10/4/2014					0.025 (o)					
10/21/2014				<0.01 (o)	0.024 (o)					
11/5/2014	<0.0013 (o)									
11/11/2014					0.025 (o)					
3/2/2015										
3/3/2015					0.029 (o)					
5/8/2015			0.036 (o)							
5/17/2015			0.029 (o)							
5/25/2015			0.029 (o)							
8/12/2015										
3/2/2016						<0.01 (o)				
3/3/2016										
3/4/2016		0.0422 (o)					2.1421 (O)			
3/7/2016	<3 (o)			<0.01 (o)						
3/8/2016								0.0261 (o)		
3/9/2016										
5/3/2016						<0.01 (o)				
7/12/2016										
9/8/2016										
9/13/2016										
1/6/2017										
3/23/2017				<0.01 (o)						
3/12/2019									25.9 (O)	

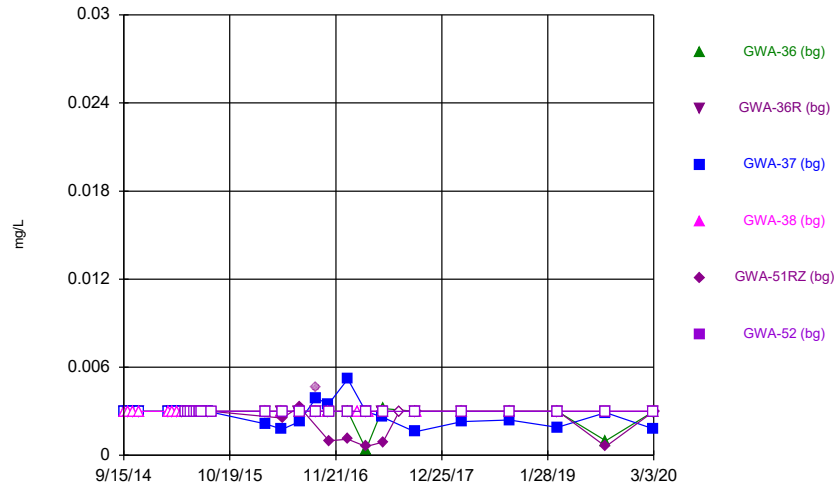
Excluded Data

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 9:41 AM

	GWC-23R Thallium (mg/L)	GWA-37 Total Dissolved Solids (mg/l)	GWA-51RZ Vanadium (mg/L)	GWA-36R Zinc (mg/L)	GWA-38 Zinc (mg/L)	GWA-51RZ Zinc (mg/L)	GWC-20R Zinc (mg/L)
9/15/2014				0.44 (o)			
9/17/2014							
10/4/2014							
10/21/2014							
11/5/2014							
11/11/2014							
3/2/2015				0.041 (o)			
3/3/2015							
5/8/2015							
5/17/2015					0.12 (o)		
5/25/2015							
8/12/2015		0.0279 (o)					
3/2/2016							
3/3/2016							
3/4/2016							
3/7/2016							
3/8/2016						0.557 (o)	
3/9/2016	0.0033 (Jo)						
5/3/2016							
7/12/2016							
9/8/2016							
9/13/2016							
1/6/2017		189 (O)					
3/23/2017							
3/12/2019							

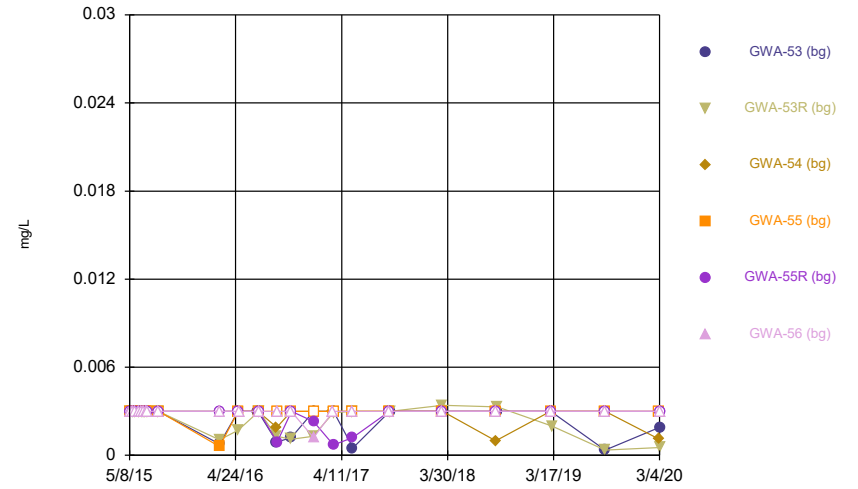
FIGURE A.

Time Series



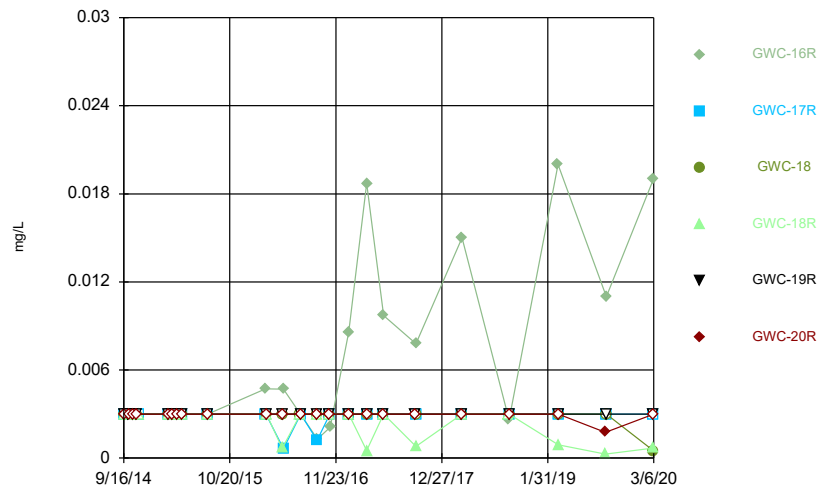
Constituent: Antimony Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



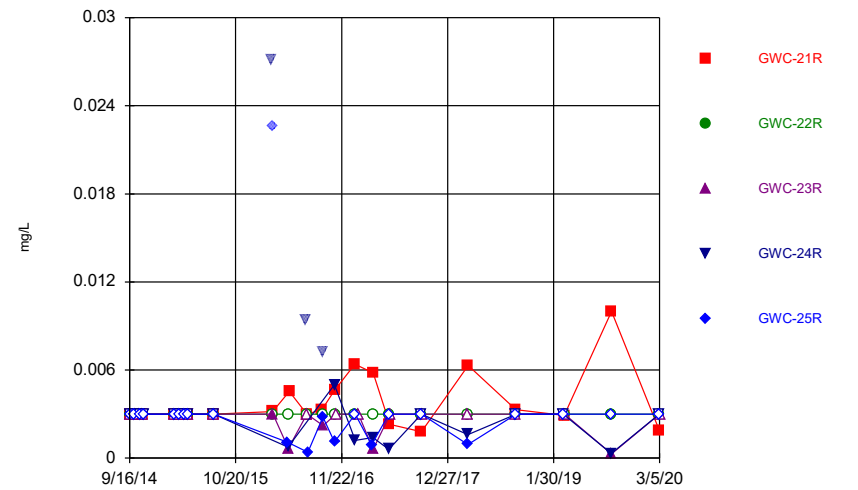
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Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Antimony Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Antimony Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.003	<0.003				
9/16/2014			<0.003	<0.003		
10/3/2014	<0.003	<0.003	<0.003	<0.003		
10/20/2014	<0.003	<0.003	<0.003	<0.003		
11/10/2014	<0.003	<0.003	<0.003	<0.003		
3/2/2015	<0.003	<0.003	<0.003	<0.003		
3/17/2015	<0.003	<0.003	<0.003	<0.003		
4/5/2015	<0.003	<0.003	<0.003			
4/6/2015				<0.003		
4/21/2015	<0.003	<0.003				
4/22/2015			<0.003	<0.003		
5/8/2015					<0.003	<0.003
5/17/2015					<0.003	<0.003
5/25/2015					<0.003	<0.003
6/8/2015					<0.003	<0.003
6/18/2015					<0.003	<0.003
6/24/2015					<0.003	<0.003
6/30/2015					<0.003	<0.003
7/6/2015					<0.003	<0.003
7/28/2015	<0.003	<0.003	<0.003	<0.003		
8/12/2015					<0.003	<0.003
2/29/2016						<0.003
3/1/2016	<0.003	<0.003	0.00214 (J)			
3/2/2016				<0.003		
5/2/2016	<0.003	<0.003				
5/3/2016			0.00178 (J)	<0.003		
5/4/2016					0.00254 (JD)	<0.003
7/6/2016		<0.003				
7/7/2016	<0.003			<0.003	0.0033 (D)	
7/8/2016			0.0023 (J)			<0.003
9/7/2016	<0.003	<0.003	0.0039			
9/8/2016				<0.003	0.0046 (o)	<0.003
10/25/2016	<0.003	<0.003	0.0035	<0.003		
10/26/2016					0.001 (D)	<0.003
1/5/2017	<0.003	<0.003				
1/6/2017			0.0052		0.0011 (D)	<0.003
2/9/2017				<0.003		
3/14/2017		<0.003	0.003			
3/15/2017	0.0004 (J)				0.0006 (D)	<0.003
3/23/2017				<0.003		
5/16/2017		<0.003	0.0026 (J)			
5/17/2017	0.0032			<0.003		<0.003
5/18/2017					0.0009 (D)	
7/19/2017					<0.003 (D)	
9/15/2017	<0.003	<0.003	0.0016 (J)			<0.003
9/19/2017				<0.003	<0.003 (D)	
3/12/2018	<0.003	<0.003	0.0023 (J)			
3/13/2018				<0.003	<0.003	<0.003
9/6/2018	<0.003	<0.003	0.0024 (J)	<0.003		<0.003
9/7/2018					<0.003	
3/6/2019	<0.003		0.0019 (J)			
3/7/2019		<0.003		<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.003	
9/4/2019	0.001 (J)	<0.003	0.0029 (J)	<0.003 (D)	0.0006 (J)	<0.003
3/2/2020	<0.003	<0.003	0.0018 (J)	<0.003		<0.003
3/3/2020					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.003				
5/9/2015	<0.003		<0.003	<0.003	<0.003	<0.003
5/17/2015		<0.003				
5/18/2015	<0.003		<0.003	<0.003	<0.003	
5/19/2015						<0.003
5/25/2015	<0.003	<0.003	<0.003			
5/26/2015				<0.003	<0.003	<0.003
6/8/2015	<0.003	<0.003				
6/9/2015			<0.003	<0.003	<0.003	<0.003
6/17/2015	<0.003		<0.003	<0.003	<0.003	<0.003
6/18/2015		<0.003				
6/24/2015	<0.003	<0.003				
6/25/2015			<0.003	<0.003	<0.003	<0.003
6/30/2015	<0.003	<0.003				
7/1/2015			<0.003	<0.003	<0.003	<0.003
7/6/2015	<0.003	<0.003				
7/7/2015			<0.003	<0.003	<0.003	<0.003
8/12/2015	<0.003	<0.003	<0.003			
8/13/2015				<0.003	<0.003	<0.003
3/2/2016	0.000782 (J)	0.00106 (J)	<0.003	0.000608 (J)		
3/3/2016					<0.003	<0.003
5/3/2016	<0.003	0.00171 (J)		<0.003	<0.003	
5/4/2016			<0.003			
5/9/2016						<0.003
7/8/2016	<0.003		<0.003			
7/11/2016		<0.003		<0.003	<0.003	<0.003
9/7/2016		0.0013 (J)				
9/8/2016	0.0009 (J)		0.0019 (J)			
9/9/2016				<0.003	0.0009 (J)	<0.003
10/26/2016	0.0012 (J)		<0.003	<0.003		<0.003
10/27/2016		0.0011 (J)			<0.003	
1/6/2017		0.0013 (J)				
1/9/2017	<0.003		<0.003	<0.003	0.0023 (J)	0.0012 (J)
3/15/2017			<0.003			<0.003
3/16/2017	<0.003	0.0029 (J)		<0.003	0.0007 (J)	
5/18/2017			<0.003	<0.003	0.0012 (J)	<0.003
5/19/2017	0.0005 (J)	<0.003				
9/15/2017			<0.003	<0.003		<0.003
9/18/2017					<0.003	
9/19/2017	<0.003	<0.003				
3/12/2018				<0.003	<0.003	
3/13/2018	<0.003	0.0034	<0.003			<0.003
9/6/2018			0.001 (J)			
9/7/2018				<0.003	<0.003	<0.003
9/11/2018	<0.003	0.0033				
3/7/2019			<0.003		<0.003	<0.003
3/8/2019	<0.003			<0.003		
3/12/2019		0.002 (J)				
9/4/2019						<0.003
9/5/2019	0.00035 (J)	0.00035 (J)	<0.003	<0.003	<0.003	
3/3/2020			0.0011 (J)	<0.003		
3/4/2020	0.0019 (J)	0.00053 (J)			<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.003					
9/17/2014		<0.003	<0.003	<0.003	<0.003	
9/18/2014						<0.003
10/4/2014	<0.003	<0.003	<0.003	<0.003	<0.003	
10/5/2014						<0.003
10/21/2014	<0.003	<0.003	<0.003	<0.003	<0.003	
10/22/2014						<0.003
11/5/2014			<0.003		<0.003	<0.003
11/11/2014	<0.003	<0.003		<0.003		
3/3/2015	<0.003	<0.003	<0.003	<0.003	<0.003	
3/4/2015						<0.003
3/18/2015	<0.003	<0.003	<0.003	<0.003		
3/19/2015					<0.003	<0.003
4/6/2015	<0.003	<0.003				
4/7/2015			<0.003	<0.003	<0.003	<0.003
4/23/2015	<0.003	<0.003	<0.003	<0.003		
4/24/2015					<0.003	<0.003
7/29/2015	<0.003	<0.003	<0.003	<0.003	<0.003	
7/30/2015						<0.003
3/3/2016	0.00472 (D)					
3/4/2016		<0.003				
3/7/2016			0.003	<0.003	<0.003	
3/8/2016						<0.003
5/5/2016			<0.003	0.000672 (J)		
5/9/2016					<0.003	<0.003
5/10/2016	0.0047	0.000641 (J)				
7/13/2016	<0.003		<0.003	<0.003		
7/14/2016		<0.003			<0.003	<0.003
9/12/2016				<0.003	<0.003	<0.003
9/13/2016			<0.003			
9/14/2016		0.0012 (J)				
9/15/2016	0.0013 (J)					
10/31/2016			<0.003		<0.003	<0.003
11/1/2016		<0.003		<0.003		
11/2/2016	0.0021 (J)					
1/11/2017	0.0086	<0.003		<0.003	<0.003	
1/12/2017			<0.003			<0.003
3/20/2017	0.0187			0.0005 (J)		
3/21/2017		<0.003			<0.003	
3/22/2017						<0.003
3/23/2017			<0.003			
5/22/2017				<0.003	<0.003	<0.003
5/23/2017	0.0097	<0.003	<0.003			
9/19/2017						<0.003
9/20/2017					<0.003	
9/21/2017	0.0078			0.0008 (J)		
9/22/2017		<0.003				
9/25/2017			<0.003			
3/14/2018	0.015	<0.003	<0.003	<0.003	<0.003	<0.003
9/7/2018	0.0026 (J)			<0.003		
9/10/2018					<0.003	<0.003
9/11/2018		<0.003	<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	0.02					
3/12/2019		<0.003	<0.003	0.00091 (J)	<0.003	<0.003
9/6/2019				0.00028 (J)		0.001755 (D)
9/9/2019	0.011		<0.003		<0.003	
9/10/2019		<0.003				
3/4/2020	0.019				<0.003	
3/5/2020		<0.003		0.00068 (J)		<0.003
3/6/2020			0.00049 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

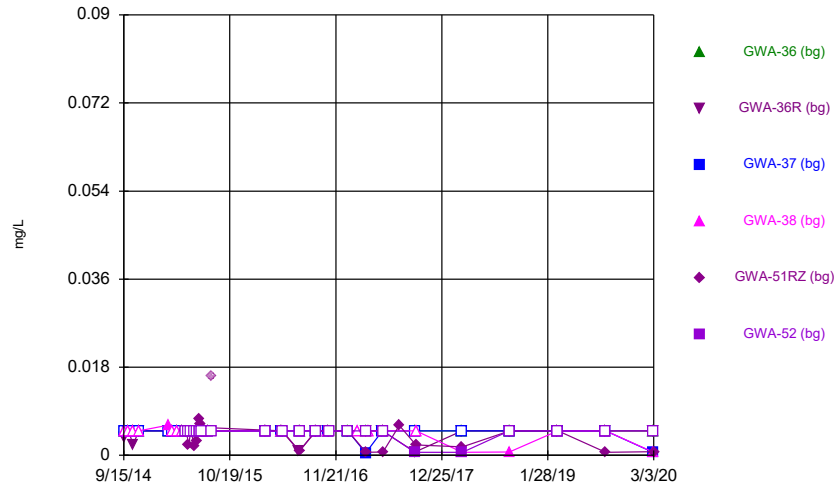
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.003	<0.003
9/18/2014	<0.003	<0.003	<0.003		
10/4/2014				<0.003	<0.003
10/5/2014	<0.003	<0.003	<0.003		
10/22/2014	<0.003	<0.003	<0.003		
10/23/2014				<0.003	<0.003
11/5/2014	<0.003	<0.003	<0.003		
11/10/2014				<0.003	<0.003
3/4/2015	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2015	<0.003	<0.003			
3/20/2015			<0.003	<0.003	<0.003
4/8/2015	<0.003	<0.003	<0.003	<0.003	
4/9/2015					<0.003
4/23/2015			<0.003	<0.003	<0.003
4/24/2015	<0.003	<0.003			
7/30/2015	<0.003	<0.003	<0.003	<0.003	<0.003
3/4/2016				0.0271 (Jo)	
3/7/2016		<0.003			
3/8/2016	0.00318				0.0226 (o)
3/9/2016			0.003		
5/4/2016					0.00107 (J)
5/5/2016		<0.003		0.000761 (J)	
5/6/2016			0.000666 (J)		
5/9/2016	0.00454				
7/12/2016				0.0094 (o)	
7/14/2016		<0.003			
7/15/2016	<0.003		<0.003		
7/18/2016					0.0004 (J)
9/9/2016	0.0033				
9/12/2016		<0.003			
9/13/2016				0.0072 (o)	0.0028 (J)
9/14/2016			0.0022 (J)		
10/27/2016	0.0046	<0.003		0.005	0.0011 (J)
11/1/2016			<0.003		
1/12/2017	0.0064				
1/13/2017		<0.003		0.0012 (J)	<0.003
1/25/2017			<0.003		
3/16/2017					0.0009 (J)
3/20/2017		<0.003		0.0014 (J)	
3/21/2017	0.0058				
3/22/2017			0.0006 (J)		
5/19/2017				0.0006 (J)	<0.003
5/23/2017	0.0023 (J)	<0.003			
5/24/2017			<0.003		
9/19/2017	0.0018 (J)	<0.003		<0.003	<0.003
9/21/2017			<0.003		
3/13/2018		<0.003		0.0016 (J)	0.00093 (J)
3/14/2018	0.0063		<0.003		
9/7/2018		<0.003			
9/10/2018	0.0033				
9/11/2018			<0.003	<0.003	<0.003
3/8/2019				<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

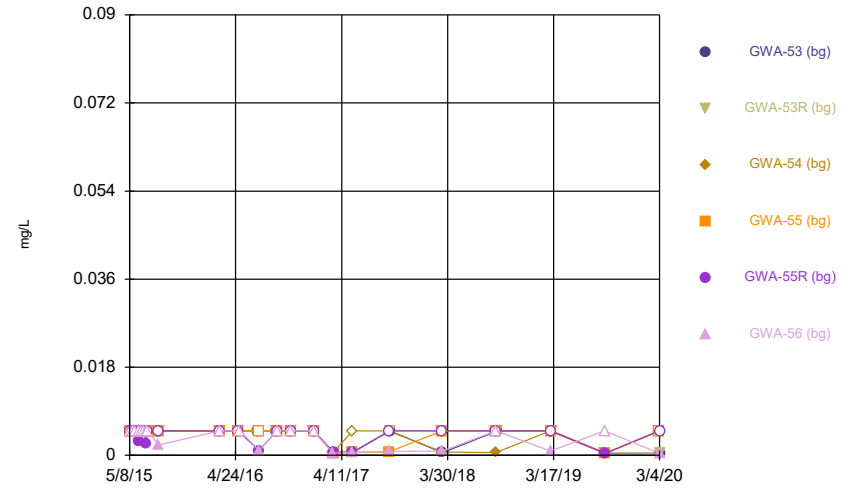
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	0.0029 (J)	<0.003			
3/12/2019			<0.003		
9/5/2019		<0.003		0.00031 (JD)	<0.003
9/6/2019	0.01		0.00029 (J)		
3/3/2020	0.0019 (J)	<0.003		<0.003	<0.003
3/5/2020			<0.003		

Time Series



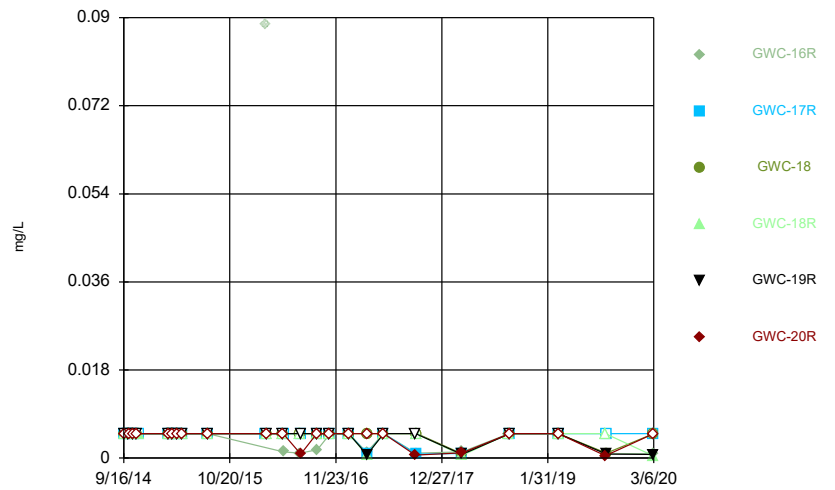
Constituent: Arsenic Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



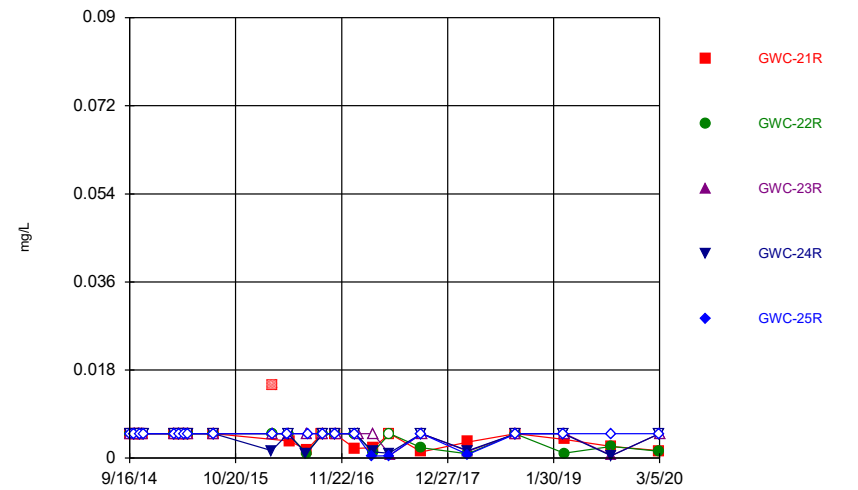
Constituent: Arsenic Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Arsenic Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Arsenic Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.005	0.0036 (J)				
9/16/2014			<0.005	<0.005		
10/3/2014	<0.005	<0.005	<0.005	<0.005		
10/20/2014	<0.005	0.0022 (J)	<0.005	<0.005		
11/10/2014	<0.005	<0.005	<0.005	<0.005		
3/2/2015	<0.005	<0.005	<0.005	0.0062		
3/17/2015	<0.005	<0.005	<0.005	<0.005		
4/5/2015	<0.005	<0.005	<0.005			
4/6/2015				<0.005		
4/21/2015	<0.005	<0.005				
4/22/2015			<0.005	<0.005		
5/8/2015					<0.005	<0.005
5/17/2015					0.0021 (J)	<0.005
5/25/2015					<0.005	<0.005
6/8/2015					0.002 (J)	<0.005
6/18/2015					0.0028 (J)	<0.005
6/24/2015					0.0074	<0.005
6/30/2015					0.0065	<0.005
7/6/2015					0.0057	<0.005
7/28/2015	<0.005	<0.005	<0.005	<0.005		
8/12/2015					0.0162 (o)	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	<0.005			
3/2/2016				<0.005		
5/2/2016	<0.005	<0.005				
5/3/2016			<0.005	<0.005		
5/4/2016					<0.005 (D)	<0.005
7/6/2016		0.0008 (J)				
7/7/2016	<0.005			<0.005	0.0009 (JD)	
7/8/2016			<0.005			<0.005
9/7/2016	<0.005	<0.005	<0.005			
9/8/2016				<0.005	<0.005 (D)	<0.005
10/25/2016	<0.005	<0.005	<0.005	<0.005		
10/26/2016					<0.005 (D)	<0.005
1/5/2017	<0.005	<0.005				
1/6/2017			<0.005		<0.005 (D)	<0.005
2/9/2017				<0.005		
3/14/2017		<0.005	0.0005 (J)			
3/15/2017	<0.005				0.0006 (JD)	<0.005
3/23/2017				<0.005		
5/16/2017		<0.005	<0.005			
5/17/2017	<0.005			<0.005		<0.005
5/18/2017					0.0007 (JD)	
7/19/2017					0.0061 (D)	
9/15/2017	<0.005	0.0007 (J)	<0.005			0.0006 (J)
9/19/2017				<0.005	0.0021 (JD)	
3/12/2018	<0.005	<0.005	<0.005			
3/13/2018				0.00061 (J)	0.0017 (J)	0.00063 (J)
9/6/2018	<0.005	<0.005	<0.005	0.00071 (J)		<0.005
9/7/2018					<0.005	
3/6/2019	<0.005		<0.005			
3/7/2019		<0.005		<0.005		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.005	
9/4/2019	<0.005	<0.005	<0.005	<0.005 (D)	0.00061 (J)	<0.005
3/2/2020	<0.005	<0.005	0.00053 (J)	0.00059 (J)		<0.005
3/3/2020					0.00073 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.005				
5/9/2015	<0.005		<0.005	<0.005	<0.005	<0.005
5/17/2015		<0.005				
5/18/2015	<0.005		<0.005	<0.005	<0.005	
5/19/2015						<0.005
5/25/2015	<0.005	<0.005	<0.005			
5/26/2015				<0.005	<0.005	<0.005
6/8/2015	<0.005	<0.005				
6/9/2015			<0.005	<0.005	0.0028 (J)	<0.005
6/17/2015	<0.005		<0.005	<0.005	<0.005	<0.005
6/18/2015		<0.005				
6/24/2015	<0.005	<0.005				
6/25/2015			<0.005	<0.005	<0.005	<0.005
6/30/2015	<0.005	<0.005				
7/1/2015			<0.005	<0.005	0.0024 (J)	<0.005
7/6/2015	<0.005	<0.005				
7/7/2015			<0.005	<0.005	<0.005	<0.005
8/12/2015	<0.005	<0.005	<0.005			
8/13/2015				<0.005	<0.005	0.0021 (J)
3/2/2016	<0.005	<0.005	<0.005	<0.005		
3/3/2016					<0.005	<0.005
5/3/2016	<0.005	<0.005		<0.005	<0.005	
5/4/2016			<0.005			
5/9/2016						<0.005
7/8/2016	<0.005		<0.005			
7/11/2016		<0.005		<0.005	0.001 (J)	0.001 (J)
9/7/2016		<0.005				
9/8/2016	<0.005		<0.005			
9/9/2016				<0.005	<0.005	<0.005
10/26/2016	<0.005		<0.005	<0.005		<0.005
10/27/2016		<0.005			<0.005	
1/6/2017		<0.005				
1/9/2017	<0.005		<0.005	<0.005	<0.005	<0.005
3/15/2017			0.0006 (J)			0.0005 (J)
3/16/2017	0.0005 (J)	0.0005 (J)		0.0005 (J)	0.0007 (J)	
5/18/2017			<0.005	0.0006 (J)	0.0006 (J)	0.0006 (J)
5/19/2017	0.0007 (J)	0.0007 (J)				
9/15/2017			<0.005	0.0007 (J)		0.0008 (J)
9/18/2017					<0.005	
9/19/2017	<0.005	<0.005				
3/12/2018				<0.005	<0.005	
3/13/2018	0.00058 (J)	<0.005	0.00066 (J)			0.00088 (J)
9/6/2018			0.00057 (J)			
9/7/2018				<0.005	<0.005	<0.005
9/11/2018	<0.005	<0.005				
3/7/2019			<0.005		<0.005	0.00085 (J)
3/8/2019	<0.005			<0.005		
3/12/2019		<0.005				
9/4/2019						<0.005
9/5/2019	0.00039 (J)	0.00046 (J)	0.00038 (J)	0.00044 (J)	0.00042 (J)	
3/3/2020			<0.005	<0.005		
3/4/2020	0.00044 (J)	0.00043 (J)			<0.005	0.0004 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.005					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
10/5/2014						<0.005
10/21/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
10/22/2014						<0.005
11/5/2014			<0.005		<0.005	<0.005
11/11/2014	<0.005	<0.005		0.005		
3/3/2015	<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2015						<0.005
3/18/2015	<0.005	<0.005	<0.005	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	<0.005	<0.005				
4/7/2015			<0.005	<0.005	<0.005	<0.005
4/23/2015	<0.005	<0.005	<0.005	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	<0.005	<0.005	<0.005	<0.005	<0.005	
7/30/2015						<0.005
3/3/2016	0.08869 (oD)					
3/4/2016		<0.005				
3/7/2016			<0.005	<0.005	<0.005	
3/8/2016						<0.005
5/5/2016			<0.005	<0.005		
5/9/2016					<0.005	<0.005
5/10/2016	0.00128 (J)	<0.005				
7/13/2016	0.001 (J)		<0.005	<0.005		
7/14/2016		<0.005			<0.005	0.0008 (J)
9/12/2016				<0.005	<0.005	<0.005
9/13/2016			<0.005			
9/14/2016		<0.005				
9/15/2016	0.0017 (J)					
10/31/2016			<0.005		<0.005	<0.005
11/1/2016		<0.005		<0.005		
11/2/2016	<0.005					
1/11/2017	<0.005	<0.005		<0.005	<0.005	
1/12/2017			<0.005			<0.005
3/20/2017	0.0012 (J)			0.0006 (J)		
3/21/2017		0.0009 (J)			0.0007 (J)	
3/22/2017						<0.005
3/23/2017			<0.005			
5/22/2017				<0.005	<0.005	<0.005
5/23/2017	<0.005	<0.005	<0.005			
9/19/2017						0.0006 (J)
9/20/2017					<0.005	
9/21/2017	0.001 (J)			<0.005		
9/22/2017		0.0008 (J)				
9/25/2017			<0.005			
3/14/2018	0.0013 (J)	0.00092 (J)	0.00091 (J)	0.00057 (J)	0.00076 (J)	0.0011 (J)
9/7/2018	<0.005			<0.005		
9/10/2018					<0.005	<0.005
9/11/2018		<0.005	<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.005					
3/12/2019		<0.005	<0.005	<0.005	<0.005	<0.005
9/6/2019				<0.005		0.00047 (JD)
9/9/2019	0.00094 (J)		0.00099 (J)		0.00082 (J)	
9/10/2019		<0.005				
3/4/2020	0.00088 (J)				0.00072 (J)	
3/5/2020		<0.005		0.00042 (J)		<0.005
3/6/2020			<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

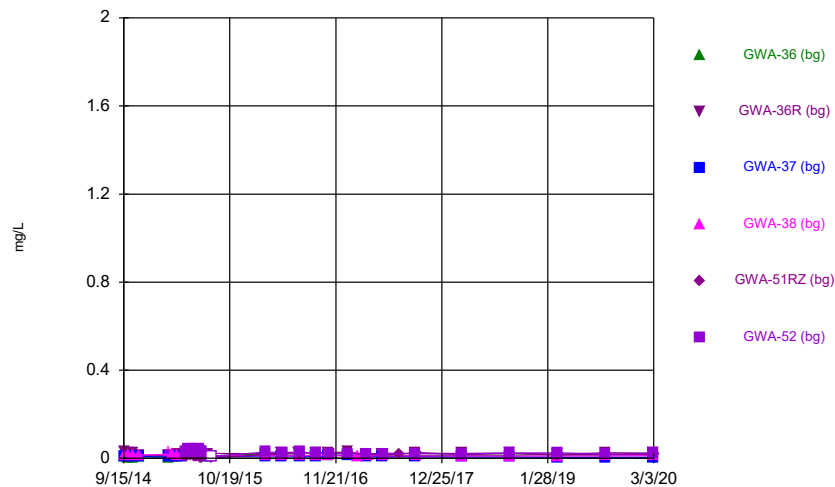
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.005	<0.005
9/18/2014	<0.005	<0.005	<0.005		
10/4/2014				<0.005	<0.005
10/5/2014	<0.005	<0.005	<0.005		
10/22/2014	<0.005	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	<0.005	<0.005	<0.005		
11/10/2014				<0.005	<0.005
3/4/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2015	<0.005	<0.005			
3/20/2015			<0.005	<0.005	<0.005
4/8/2015	<0.005	<0.005	<0.005	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	<0.005	<0.005
4/24/2015	<0.005	<0.005			
7/30/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/4/2016				0.0015 (J)	
3/7/2016		<0.005			
3/8/2016	0.0148 (o)				<0.005
3/9/2016			<0.005		
5/4/2016					<0.005
5/5/2016		<0.005		<0.005	
5/6/2016			<0.005		
5/9/2016	0.00347 (J)				
7/12/2016				0.0009 (J)	
7/14/2016		0.001 (J)			
7/15/2016	0.0017 (J)		<0.005		
7/18/2016					<0.005
9/9/2016	<0.005				
9/12/2016		<0.005			
9/13/2016				<0.005	<0.005
9/14/2016			<0.005		
10/27/2016	<0.005	<0.005		<0.005	<0.005
11/1/2016			<0.005		
1/12/2017	0.002 (J)				
1/13/2017		<0.005		<0.005	<0.005
1/25/2017			<0.005		
3/16/2017					0.0004 (J)
3/20/2017		0.0012 (J)		0.0013 (J)	
3/21/2017	0.0021 (J)				
3/22/2017			<0.005		
5/19/2017				0.001 (J)	0.0005 (J)
5/23/2017	<0.005	<0.005			
5/24/2017			0.0006 (J)		
9/19/2017	0.0013 (J)	0.0021 (J)		<0.005	<0.005
9/21/2017			<0.005		
3/13/2018		0.00087 (J)		0.0015 (J)	0.00073 (J)
3/14/2018	0.0033 (J)		0.0014 (J)		
9/7/2018		<0.005			
9/10/2018	<0.005				
9/11/2018			<0.005	<0.005	<0.005
3/8/2019				<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

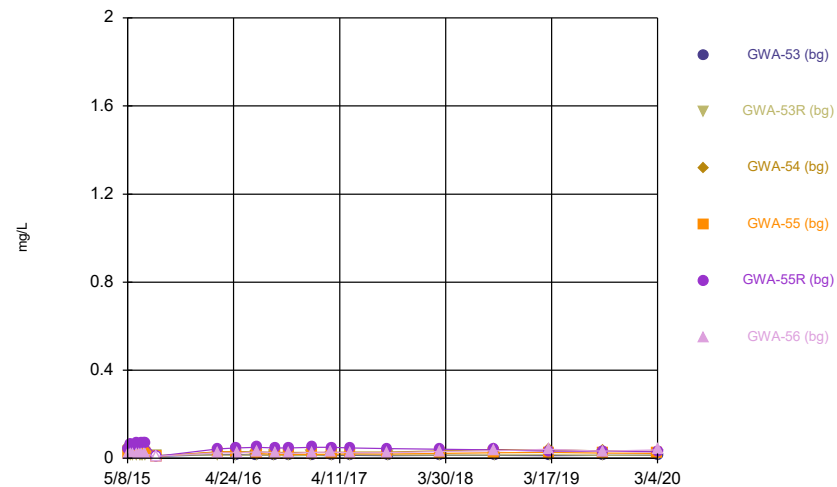
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	0.0038 (J)	0.00099 (J)			
3/12/2019			<0.005		
9/5/2019		0.0024 (J)		0.0005 (JD)	<0.005
9/6/2019	0.0024 (J)		0.00054 (J)		
3/3/2020	0.0015 (J)	0.0014 (J)		<0.005	<0.005
3/5/2020			<0.005		

Time Series



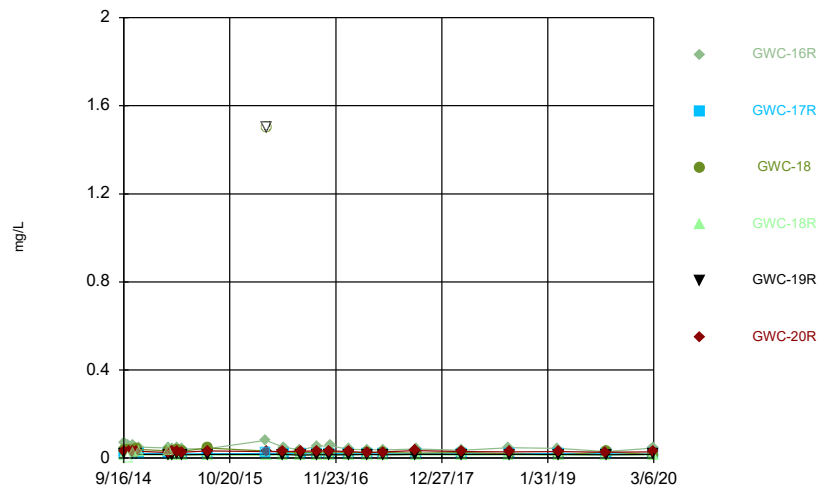
Constituent: Barium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



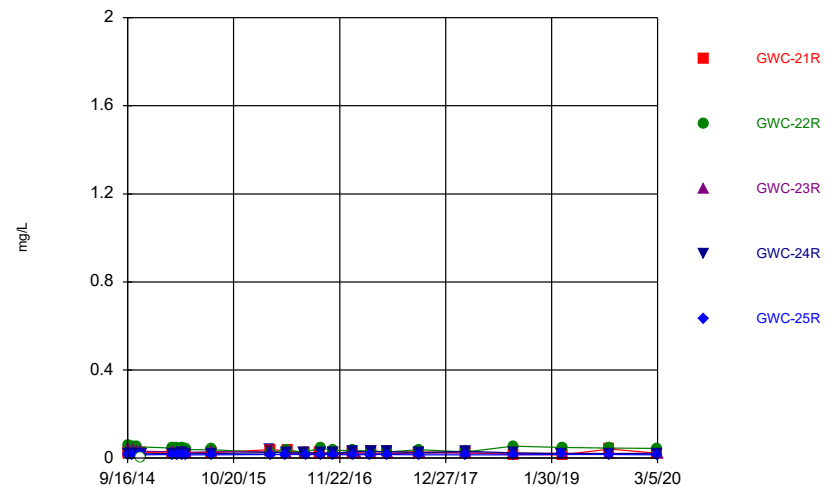
Constituent: Barium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Barium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Barium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	0.0069	0.031				
9/16/2014			0.0071	0.014		
10/3/2014	0.0045	0.024	0.0087	0.016		
10/20/2014	0.0044	0.024	0.0085	0.014		
11/10/2014	<0.02	0.014	0.008	0.015		
3/2/2015	0.0045	0.013	0.0063	0.03 (o)		
3/17/2015	0.0078	0.013	0.0066	0.018		
4/5/2015	0.01	0.022	0.0068			
4/6/2015				0.014		
4/21/2015	0.013	0.018				
4/22/2015			0.0094	0.012		
5/8/2015					0.0094	0.033
5/17/2015					0.014	0.04
5/25/2015					0.012	0.039
6/8/2015					0.0094	0.031
6/18/2015					0.0075	0.039
6/24/2015					0.0056	0.042
6/30/2015					0.0047	0.033
7/6/2015					0.0047	0.031
7/28/2015	0.011	0.022	0.0057	0.012		
8/12/2015					0.00383 (J)	<0.02
2/29/2016						0.028
3/1/2016	0.0189	0.021	0.0101			
3/2/2016				0.0123		
5/2/2016	0.0133	0.0225				
5/3/2016			0.0104	0.0114		
5/4/2016					0.0207 (D)	0.0273
7/6/2016		0.0249				
7/7/2016	0.013			0.012	0.0207 (D)	
7/8/2016			0.0095 (J)			0.0284
9/7/2016	0.0116	0.0251	0.0095 (J)			
9/8/2016				0.0131	0.0278 (D)	0.0242
10/25/2016	0.0129	0.0274	0.0121	0.0122		
10/26/2016					0.0204 (D)	0.021
1/5/2017	0.013	0.028				
1/6/2017			0.014		0.0221 (D)	0.0219
2/9/2017				0.0104		
3/14/2017		0.02	0.009 (J)			
3/15/2017	0.0121				0.0172 (D)	0.0202
3/23/2017				0.0128		
5/16/2017		0.0221	0.0084 (J)			
5/17/2017	0.0123			0.0113		0.0219
5/18/2017					0.0181 (D)	
7/19/2017					0.018 (D)	
9/15/2017	0.0127	0.0231	0.0078 (J)			0.0209
9/19/2017				0.0114	0.0271 (D)	
3/12/2018	0.014	0.023	0.006 (J)			
3/13/2018				0.011	0.017	0.02
9/6/2018	0.013	0.024	0.0058 (J)	0.011		0.024
9/7/2018					0.022	
3/6/2019	0.018		0.0052 (J)			
3/7/2019		0.018		0.011		0.025

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					0.015	
9/4/2019	0.014	0.026	0.005 (J)	0.0115 (D)	0.018	0.02
3/2/2020	0.019	0.024	0.005 (J)	0.012		0.023
3/3/2020					0.017	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		0.014				
5/9/2015	0.044		0.054	0.022	0.042	0.018
5/17/2015		0.015				
5/18/2015	0.04		0.058	0.031	0.063	
5/19/2015						0.02
5/25/2015	0.036	0.014	0.051			
5/26/2015				0.028	0.057	0.02
6/8/2015	0.028	0.014				
6/9/2015			0.034	0.031	0.07	0.02
6/17/2015	0.026		0.032	0.029	0.065	0.019
6/18/2015		0.013				
6/24/2015	0.021	0.014				
6/25/2015			0.032	0.024	0.068	0.019
6/30/2015	0.018	0.014				
7/1/2015			0.029	0.026	0.069	0.018
7/6/2015	0.018	0.013				
7/7/2015			0.029	0.027	0.071	0.019
8/12/2015	<0.02	0.015 (J)	<0.02	<0.02	<0.02	<0.02
3/2/2016	0.017	0.015	0.0297	0.0276		
3/3/2016					0.0424	0.0259
5/3/2016	0.016	0.0144		0.0291	0.0477	
5/4/2016			0.0299			
5/9/2016						0.0236
7/8/2016	0.0156		0.0294			
7/11/2016		0.0145		0.0225	0.0506	0.0295
9/7/2016		0.014				
9/8/2016	0.0144		0.0275			
9/9/2016				0.018	0.0478	0.0259
10/26/2016	0.0128		0.0263	0.0177		0.0231
10/27/2016		0.0142			0.0472	
1/6/2017		0.0139				
1/9/2017	0.0134		0.0263	0.0183	0.0507	0.0273
3/15/2017			0.0262			0.0286
3/16/2017	0.0129	0.0145		0.0175	0.0497	
5/18/2017			0.0276	0.0203	0.0466	0.0253
5/19/2017	0.0141	0.0161				
9/15/2017			0.0281	0.0197		0.0247
9/18/2017					0.0436	
9/19/2017	0.0127	0.0153				
3/12/2018				0.023	0.041	
3/13/2018	0.013	0.015	0.034			0.031
9/6/2018			0.04			
9/7/2018				0.025	0.039	0.034
9/11/2018	0.013	0.015				
3/7/2019			0.039		0.033	0.042
3/8/2019	0.012			0.027		
3/12/2019		0.016				
9/4/2019						0.033
9/5/2019	0.013	0.014	0.034	0.024	0.032	
3/3/2020			0.031	0.023		
3/4/2020	0.013	0.015			0.029	0.039

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.069					
9/17/2014		0.019	0.035	0.015	0.018	
9/18/2014						0.031
10/4/2014	0.057	0.02	0.038	<0.0013 (o)	0.017	
10/5/2014						0.032
10/21/2014	0.056	0.02	0.034	0.027 (o)	0.017	
10/22/2014						0.03
11/5/2014			0.04		0.017	0.031
11/11/2014	0.05	0.021		0.028 (o)		
3/3/2015	0.045	0.02	0.033	0.034 (o)	0.016	
3/4/2015						0.026
3/18/2015	0.044	0.019	0.031	0.014		
3/19/2015					0.015	0.028
4/6/2015	0.045	0.02				
4/7/2015			0.038	0.017	0.017	0.031
4/23/2015	0.041	0.019	0.031	0.013		
4/24/2015					0.015	0.027
7/29/2015	0.043	0.02	0.045	0.013	0.016	
7/30/2015						0.032
3/3/2016	0.0806 (D)					
3/4/2016		0.0262 (Jo)				
3/7/2016			<3 (o)	0.0129	<3 (o)	
3/8/2016						0.0298
5/5/2016			0.0278	0.0149		
5/9/2016					0.0162	0.0304
5/10/2016	0.0495	0.0204				
7/13/2016	0.0374		0.0255	0.0132		
7/14/2016		0.0198			0.0142	0.0307
9/12/2016				0.0142	0.0154	0.0331
9/13/2016			0.0251			
9/14/2016		0.0183				
9/15/2016	0.0542					
10/31/2016			0.0277		0.015	0.0321
11/1/2016		0.0209		0.0127		
11/2/2016	0.0561					
1/11/2017	0.0401	0.0194		0.0146	0.0148	
1/12/2017			0.0258			0.0291
3/20/2017	0.0383			0.0147		
3/21/2017		0.0201			0.0159	
3/22/2017						0.025
3/23/2017			0.0254			
5/22/2017				0.0146	0.0155	0.0276
5/23/2017	0.0376	0.0199	0.0247			
9/19/2017						0.034
9/20/2017					0.0164	
9/21/2017	0.0418			0.0152		
9/22/2017		0.0195				
9/25/2017			0.0228			
3/14/2018	0.036	0.02	0.025	0.014	0.016	0.03
9/7/2018	0.047			0.015		
9/10/2018					0.016	0.028
9/11/2018		0.019	0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	0.044					
3/12/2019		0.021	0.014	0.014	0.016	0.03
9/6/2019				0.014		0.0275 (D)
9/9/2019	0.03		0.028		0.015	
9/10/2019		0.019				
3/4/2020	0.045				0.017	
3/5/2020		0.018		0.015		0.028
3/6/2020			0.015			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

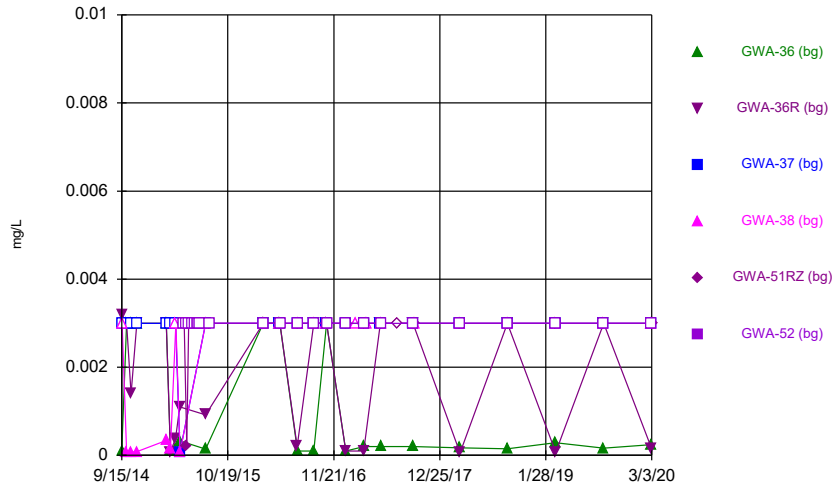
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				0.019	0.015
9/18/2014	0.023	0.057	0.042		
10/4/2014				0.019	0.015
10/5/2014	0.025	0.052	0.038		
10/22/2014	0.025	0.052	0.029		
10/23/2014				0.019	0.015
11/5/2014	0.025	<0.0013 (o)	0.031		
11/10/2014				0.019	0.015
3/4/2015	0.024	0.046	0.03	0.021	0.016
3/19/2015	0.024	0.045			
3/20/2015			0.027	0.02	0.015
4/8/2015	0.027	0.045	0.032	0.023	
4/9/2015					0.016
4/23/2015			0.026	0.02	0.015
4/24/2015	0.025	0.039			
7/30/2015	0.025	0.039	0.029	0.021	0.015
3/4/2016				0.0422 (o)	
3/7/2016		0.026			
3/8/2016	0.0377				0.0161
3/9/2016			0.0284 (J)		
5/4/2016					0.0167
5/5/2016		0.0374		0.0249	
5/6/2016			0.0233		
5/9/2016	0.0347				
7/12/2016				0.0246	
7/14/2016		0.0271			
7/15/2016	0.0259		0.0208		
7/18/2016					0.0162
9/9/2016	0.0242				
9/12/2016		0.045			
9/13/2016				0.0236	0.0161
9/14/2016			0.0198		
10/27/2016	0.0227	0.0359		0.0229	0.016
11/1/2016			0.0207		
1/12/2017	0.0253				
1/13/2017		0.0338		0.0292	0.015
1/25/2017			0.0195		
3/16/2017					0.0163
3/20/2017		0.033		0.029	
3/21/2017	0.0292				
3/22/2017			0.0211		
5/19/2017				0.0295	0.0164
5/23/2017	0.0282	0.0287			
5/24/2017			0.0217		
9/19/2017	0.0276	0.0389		0.0248	0.0147
9/21/2017			0.0226		
3/13/2018		0.028		0.031	0.015
3/14/2018	0.024		0.024		
9/7/2018		0.055			
9/10/2018	0.016				
9/11/2018			0.023	0.024	0.015
3/8/2019				0.02	0.017

Time Series

Constituent: Barium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

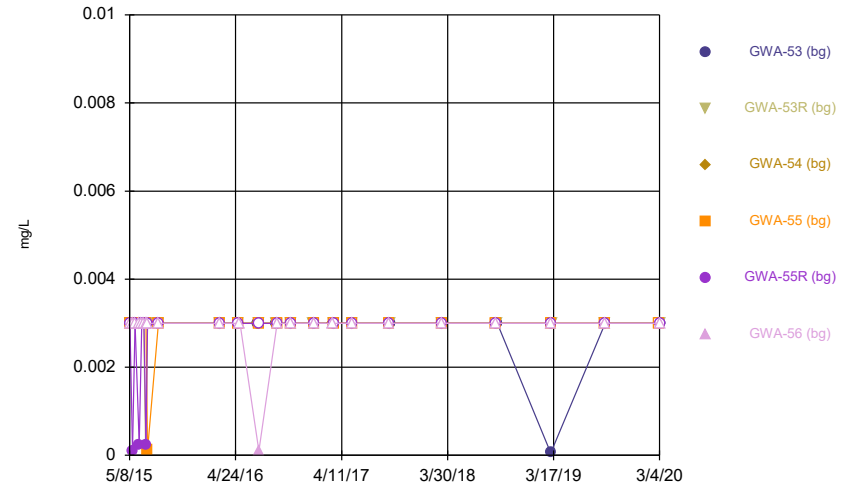
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	0.015	0.048			
3/12/2019			0.022		
9/5/2019		0.045		0.021 (D)	0.016
9/6/2019	0.041		0.021		
3/3/2020	0.022	0.044		0.02	0.015
3/5/2020			0.022		

Time Series



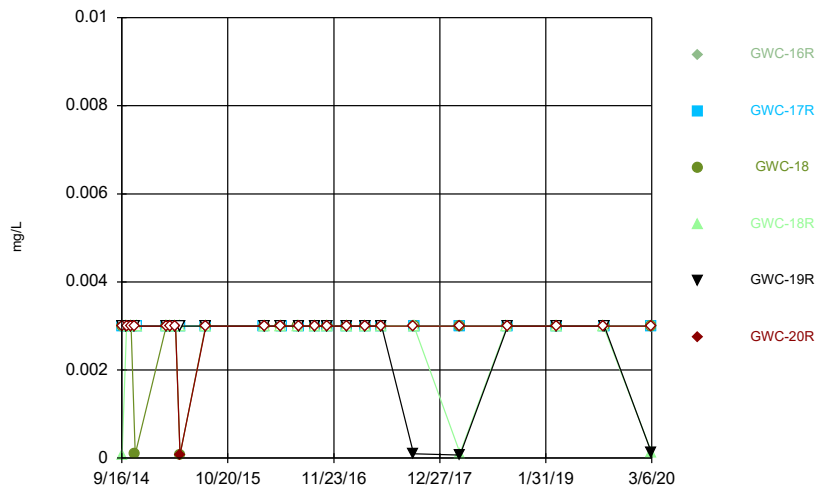
Constituent: Beryllium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



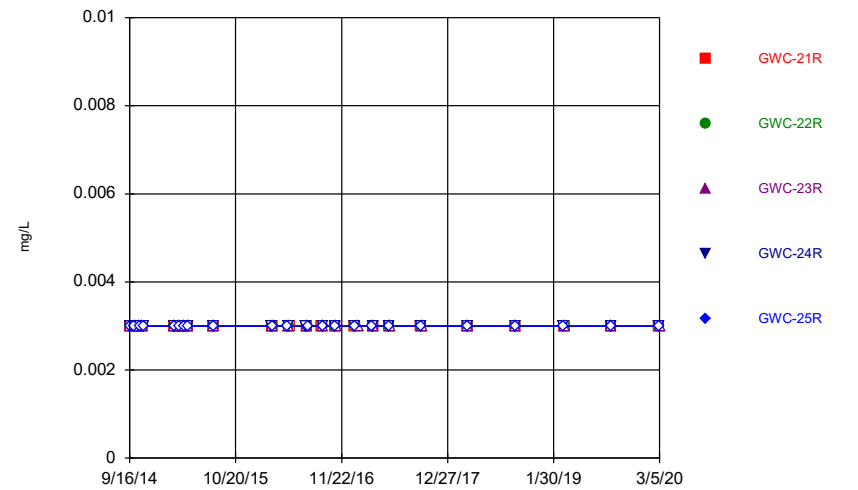
Constituent: Beryllium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Beryllium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Beryllium Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	0.00011 (J)	0.0032				
9/16/2014			<0.003	<0.003		
10/3/2014	<0.003	<0.003	<0.003	8.3E-05 (J)		
10/20/2014	<0.003	0.0014	<0.003	7.8E-05 (J)		
11/10/2014	<0.003	<0.003	<0.003	8E-05 (J)		
3/2/2015	<0.003	<0.003	<0.003	0.00034 (J)		
3/17/2015	0.0001 (J)	8.3E-05 (J)	<0.003	0.00014 (J)		
4/5/2015	0.00012 (J)	0.00038 (J)	<0.003			
4/6/2015				<0.003		
4/21/2015	0.00033 (J)	0.0011 (J)				
4/22/2015			8.3E-05 (J)	7.8E-05 (J)		
5/8/2015					<0.003	<0.003
5/17/2015					0.00022 (J)	<0.003
5/25/2015					<0.003	<0.003
6/8/2015					<0.003	<0.003
6/18/2015					<0.003	<0.003
6/24/2015					<0.003	<0.003
6/30/2015					<0.003	<0.003
7/6/2015					<0.003	<0.003
7/28/2015	0.00014 (J)	0.00092 (J)	<0.003	<0.003		
8/12/2015					<0.003	<0.003
2/29/2016						<0.003
3/1/2016	<0.003	<0.003	<0.003			
3/2/2016				<0.003		
5/2/2016	<0.003	<0.003				
5/3/2016			<0.003	<0.003		
5/4/2016					<0.003 (D)	<0.003
7/6/2016		0.0002 (J)				
7/7/2016	0.0001 (J)			<0.003	<0.003 (D)	
7/8/2016			<0.003			<0.003
9/7/2016	0.0001 (J)	<0.003	<0.003			
9/8/2016				<0.003	<0.003 (D)	<0.003
10/25/2016	<0.003	<0.003	<0.003	<0.003		
10/26/2016					<0.003 (D)	<0.003
1/5/2017	0.0001 (J)	0.0001 (J)				
1/6/2017			<0.003		<0.003 (D)	<0.003
2/9/2017				<0.003		
3/14/2017		0.0001 (J)	<0.003			
3/15/2017	0.0002 (J)				<0.003 (D)	<0.003
3/23/2017				<0.003		
5/16/2017		<0.003	<0.003			
5/17/2017	0.0002 (J)			<0.003		<0.003
5/18/2017					<0.003 (D)	
7/19/2017					<0.003 (D)	
9/15/2017	0.0002 (J)	<0.003	<0.003			<0.003
9/19/2017				<0.003	<0.003 (D)	
3/12/2018	0.00017 (J)	5.6E-05 (J)	<0.003			
3/13/2018				<0.003	<0.003	<0.003
9/6/2018	0.00015 (J)	<0.003	<0.003	<0.003		<0.003
9/7/2018					<0.003	
3/6/2019	0.00029 (J)		<0.003			
3/7/2019		6.8E-05 (J)		<0.003		<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.003	
9/4/2019	0.00016 (J)	<0.003	<0.003	<0.003 (D)	<0.003	<0.003
3/2/2020	0.00024 (J)	0.00015 (J)	<0.003	<0.003		<0.003
3/3/2020					<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.003				
5/9/2015	<0.003		<0.003	<0.003	<0.003	<0.003
5/17/2015		<0.003				
5/18/2015	<0.003		<0.003	<0.003	0.00011 (J)	
5/19/2015						<0.003
5/25/2015	<0.003	<0.003	<0.003			
5/26/2015				<0.003	<0.003	<0.003
6/8/2015	<0.003	<0.003				
6/9/2015			<0.003	<0.003	0.00025 (J)	<0.003
6/17/2015	<0.003		<0.003	<0.003	<0.003	<0.003
6/18/2015		<0.003				
6/24/2015	<0.003	<0.003				
6/25/2015			<0.003	<0.003	<0.003	<0.003
6/30/2015	<0.003	0.00014 (J)				
7/1/2015			<0.003	<0.003	0.00024 (J)	<0.003
7/6/2015	<0.003	<0.003				
7/7/2015			<0.003	0.00012 (J)	<0.003	<0.003
8/12/2015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/2/2016	<0.003	<0.003	<0.003	<0.003		
3/3/2016					<0.003	<0.003
5/3/2016	<0.003	<0.003		<0.003	<0.003	
5/4/2016			<0.003			
5/9/2016						<0.003
7/8/2016	<0.003		<0.003			
7/11/2016		<0.003		<0.003	<0.003	0.0001 (J)
9/7/2016		<0.003				
9/8/2016	<0.003		<0.003			
9/9/2016				<0.003	<0.003	<0.003
10/26/2016	<0.003		<0.003	<0.003		<0.003
10/27/2016		<0.003			<0.003	
1/6/2017		<0.003				
1/9/2017	<0.003		<0.003	<0.003	<0.003	<0.003
3/15/2017			<0.003			<0.003
3/16/2017	<0.003	<0.003		<0.003	<0.003	
5/18/2017			<0.003	<0.003	<0.003	<0.003
5/19/2017	<0.003	<0.003				
9/15/2017			<0.003	<0.003		<0.003
9/18/2017					<0.003	
9/19/2017	<0.003	<0.003				
3/12/2018				<0.003	<0.003	
3/13/2018	<0.003	<0.003	<0.003			<0.003
9/6/2018			<0.003			
9/7/2018				<0.003	<0.003	<0.003
9/11/2018	<0.003	<0.003				
3/7/2019			<0.003		<0.003	<0.003
3/8/2019	5.7E-05 (J)			<0.003		
3/12/2019		<0.003				
9/4/2019						<0.003
9/5/2019	<0.003	<0.003	<0.003	<0.003	<0.003	
3/3/2020			<0.003	<0.003		
3/4/2020	<0.003	<0.003			<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.003					
9/17/2014		<0.003	<0.003	7.8E-05 (J)	<0.003	
9/18/2014						<0.003
10/4/2014	<0.003	<0.003	<0.003	<0.003	<0.003	
10/5/2014						<0.003
10/21/2014	<0.003	<0.003	<0.003	<0.003	<0.003	
10/22/2014						<0.003
11/5/2014			9E-05 (J)		<0.003	<0.003
11/11/2014	<0.003	<0.003		<0.003		
3/3/2015	<0.003	<0.003	<0.003	<0.003	<0.003	
3/4/2015						<0.003
3/18/2015	<0.003	<0.003	<0.003	<0.003		
3/19/2015					<0.003	<0.003
4/6/2015	<0.003	<0.003				
4/7/2015			<0.003	<0.003	<0.003	<0.003
4/23/2015	<0.003	<0.003	7.8E-05 (J)	<0.003		
4/24/2015					<0.003	8.3E-05 (J)
7/29/2015	<0.003	<0.003	<0.003	<0.003	<0.003	
7/30/2015						<0.003
3/3/2016	<0.003 (D)					
3/4/2016		<0.003				
3/7/2016			<0.003	<0.003	<0.003	
3/8/2016						<0.003
5/5/2016			<0.003	<0.003		
5/9/2016					<0.003	<0.003
5/10/2016	<0.003	<0.003				
7/13/2016	<0.003		<0.003	<0.003		
7/14/2016		<0.003			<0.003	<0.003
9/12/2016				<0.003	<0.003	<0.003
9/13/2016			<0.003			
9/14/2016		<0.003				
9/15/2016	<0.003					
10/31/2016			<0.003		<0.003	<0.003
11/1/2016		<0.003		<0.003		
11/2/2016	<0.003					
1/11/2017	<0.003	<0.003		<0.003	<0.003	
1/12/2017			<0.003			<0.003
3/20/2017	<0.003			<0.003		
3/21/2017		<0.003			<0.003	
3/22/2017						<0.003
3/23/2017			<0.003			
5/22/2017				<0.003	<0.003	<0.003
5/23/2017	<0.003	<0.003	<0.003			
9/19/2017						<0.003
9/20/2017					0.0001 (J)	
9/21/2017	<0.003			<0.003		
9/22/2017		<0.003				
9/25/2017			<0.003			
3/14/2018	<0.003	<0.003	<0.003	0.00011 (J)	6.5E-05 (J)	<0.003
9/7/2018	<0.003			<0.003		
9/10/2018					<0.003	<0.003
9/11/2018		<0.003	<0.003			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.003					
3/12/2019		<0.003	<0.003	<0.003	<0.003	<0.003
9/6/2019				<0.003		<0.003 (D)
9/9/2019	<0.003		<0.003		<0.003	
9/10/2019		<0.003				
3/4/2020	<0.003				0.00013 (J)	
3/5/2020		<0.003		0.00013 (J)		<0.003
3/6/2020			<0.003			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

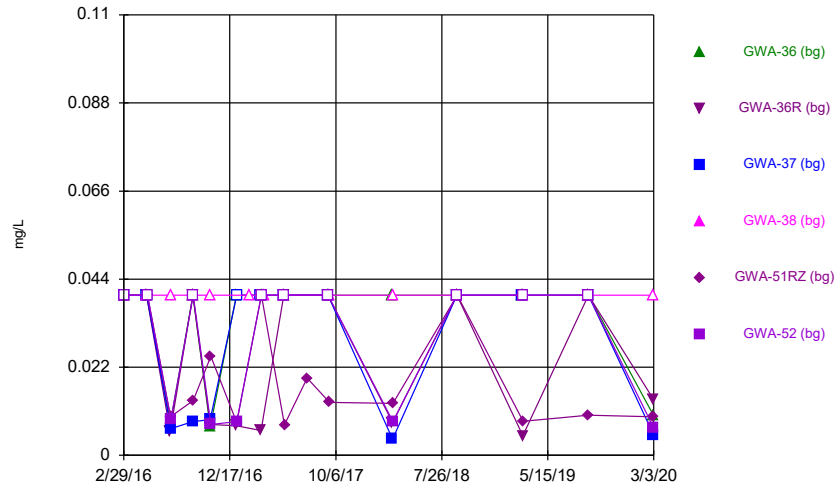
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.003	<0.003
9/18/2014	<0.003	<0.003	<0.003		
10/4/2014				<0.003	<0.003
10/5/2014	<0.003	<0.003	<0.003		
10/22/2014	<0.003	<0.003	<0.003		
10/23/2014				<0.003	<0.003
11/5/2014	<0.003	<0.003	<0.003		
11/10/2014				<0.003	<0.003
3/4/2015	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2015	<0.003	<0.003			
3/20/2015			<0.003	<0.003	<0.003
4/8/2015	<0.003	<0.003	<0.003	<0.003	
4/9/2015					<0.003
4/23/2015			<0.003	<0.003	<0.003
4/24/2015	<0.003	<0.003			
7/30/2015	<0.003	<0.003	<0.003	<0.003	<0.003
3/4/2016				<0.003	
3/7/2016		<0.003			
3/8/2016	<0.003				<0.003
3/9/2016			<0.003		
5/4/2016					<0.003
5/5/2016		<0.003		<0.003	
5/6/2016			<0.003		
5/9/2016	<0.003				
7/12/2016				<0.003	
7/14/2016		<0.003			
7/15/2016	<0.003		<0.003		
7/18/2016					<0.003
9/9/2016	<0.003				
9/12/2016		<0.003			
9/13/2016				<0.003	<0.003
9/14/2016			<0.003		
10/27/2016	<0.003	<0.003		<0.003	<0.003
11/1/2016			<0.003		
1/12/2017	<0.003				
1/13/2017		<0.003		<0.003	<0.003
1/25/2017			<0.003		
3/16/2017					<0.003
3/20/2017		<0.003		<0.003	
3/21/2017	<0.003				
3/22/2017			<0.003		
5/19/2017				<0.003	<0.003
5/23/2017	<0.003	<0.003			
5/24/2017			<0.003		
9/19/2017	<0.003	<0.003		<0.003	<0.003
9/21/2017			<0.003		
3/13/2018		<0.003		<0.003	<0.003
3/14/2018	<0.003		<0.003		
9/7/2018		<0.003			
9/10/2018	<0.003				
9/11/2018			<0.003	<0.003	<0.003
3/8/2019				<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

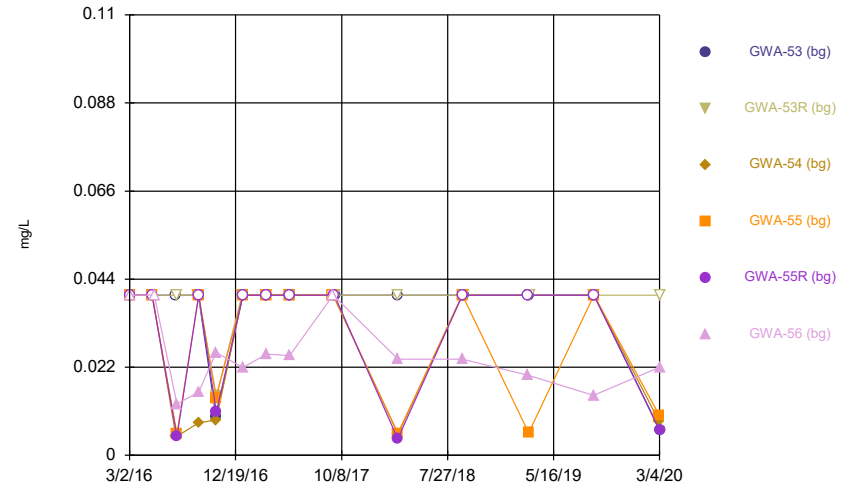
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.003	<0.003			
3/12/2019			<0.003		
9/5/2019		<0.003		<0.003 (D)	<0.003
9/6/2019	<0.003		<0.003		
3/3/2020	<0.003	<0.003		<0.003	<0.003
3/5/2020			<0.003		

Time Series



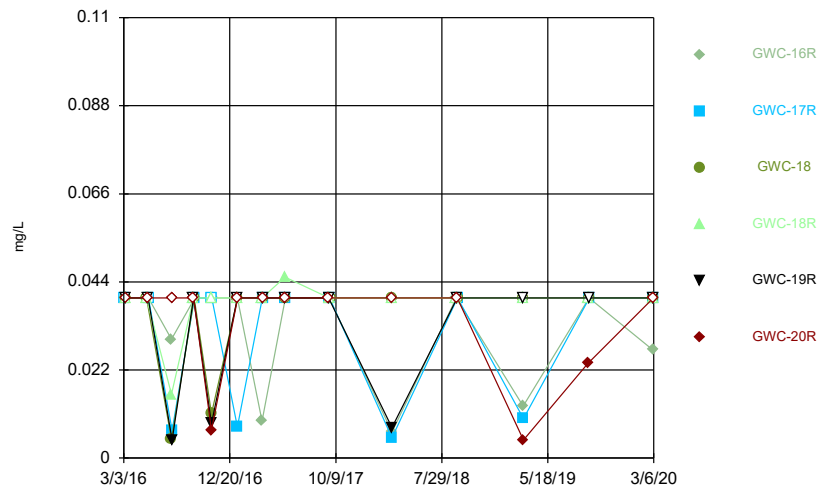
Constituent: Boron Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



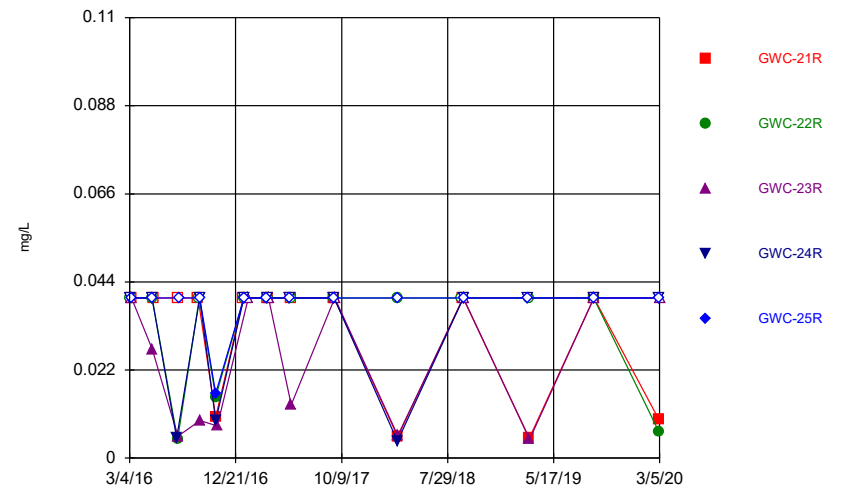
Constituent: Boron Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Boron Analysis Run 4/16/2020 1:12 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Boron Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Boron (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						<0.04
3/1/2016	<0.04	<0.04	<0.04			
3/2/2016				<0.04		
5/2/2016	<0.04	<0.04				
5/3/2016			<0.04	<0.04		
5/4/2016					<0.04 (D)	<0.04
7/6/2016		0.0059 (J)				
7/7/2016	0.0081 (J)			<0.04	0.0096 (JD)	
7/8/2016			0.0067 (J)			0.009 (J)
9/7/2016	<0.04	<0.04	0.0084 (J)			
9/8/2016				<0.04	0.0137 (JD)	<0.04
10/25/2016	0.0071 (J)	0.0077 (J)	0.0089 (J)	<0.04		
10/26/2016					0.0247 (JD)	0.0077 (J)
1/5/2017	<0.04	0.0074 (J)				
1/6/2017			<0.04		0.0082 (JD)	0.0084 (J)
2/9/2017				<0.04		
3/14/2017		0.0062 (J)	<0.04			
3/15/2017	<0.04				<0.04 (D)	<0.04
3/23/2017				<0.04		
5/16/2017		<0.04	<0.04			
5/17/2017	<0.04			<0.04		<0.04
5/18/2017					0.0076 (JD)	
7/19/2017					0.0193 (JD)	
9/15/2017	<0.04	<0.04	<0.04			<0.04
9/19/2017				<0.04	0.0132 (JD)	
3/12/2018	<0.04	0.0082 (J)	0.004 (J)			
3/13/2018				<0.04	0.013 (J)	0.0084 (J)
9/6/2018	<0.04	<0.04	<0.04	<0.04		<0.04
9/7/2018					<0.04	
3/6/2019	<0.04		<0.04			
3/7/2019		0.0049 (J)		<0.04		<0.04
3/8/2019					0.0085 (J)	
9/4/2019	<0.04	<0.04	<0.04	<0.04 (D)	0.01 (J)	<0.04
3/2/2020	0.01 (J)	0.014 (J)	0.0052 (J)	<0.04		0.007 (J)
3/3/2020					0.0096 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	<0.04	<0.04	<0.04	<0.04		
3/3/2016					<0.04	<0.04
5/3/2016	<0.04	<0.04		<0.04	<0.04	
5/4/2016			<0.04			
5/9/2016						<0.04
7/8/2016	<0.04		0.0046 (J)			
7/11/2016		<0.04		0.0054 (J)	0.0047 (J)	0.0128 (J)
9/7/2016		<0.04				
9/8/2016	<0.04		0.0081 (J)			
9/9/2016				<0.04	<0.04	0.0158 (J)
10/26/2016	0.0095 (J)		0.0088 (J)	0.0144 (J)		0.0257 (J)
10/27/2016		0.0148 (J)			0.0108 (J)	
1/6/2017		<0.04				
1/9/2017	<0.04		<0.04	<0.04	<0.04	0.0219 (J)
3/15/2017			<0.04			0.0253 (J)
3/16/2017	<0.04	<0.04		<0.04	<0.04	
5/18/2017			<0.04	<0.04	<0.04	0.0249 (J)
5/19/2017	<0.04	<0.04				
9/15/2017			<0.04	<0.04		<0.04
9/18/2017					<0.04	
9/19/2017	<0.04	<0.04				
3/12/2018				0.0055 (J)	0.0041 (J)	
3/13/2018	<0.04	<0.04	0.0053 (J)			0.024 (J)
9/6/2018			<0.04			
9/7/2018				<0.04	<0.04	0.024 (J)
9/11/2018	<0.04	<0.04				
3/7/2019			<0.04		<0.04	0.02 (J)
3/8/2019	<0.04			0.0056 (J)		
3/12/2019		<0.04				
9/4/2019						0.015 (J)
9/5/2019	<0.04	<0.04	<0.04	<0.04	<0.04	
3/3/2020			0.0084 (J)	0.01 (J)		
3/4/2020	0.0064 (J)	<0.04			0.0063 (J)	0.022 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

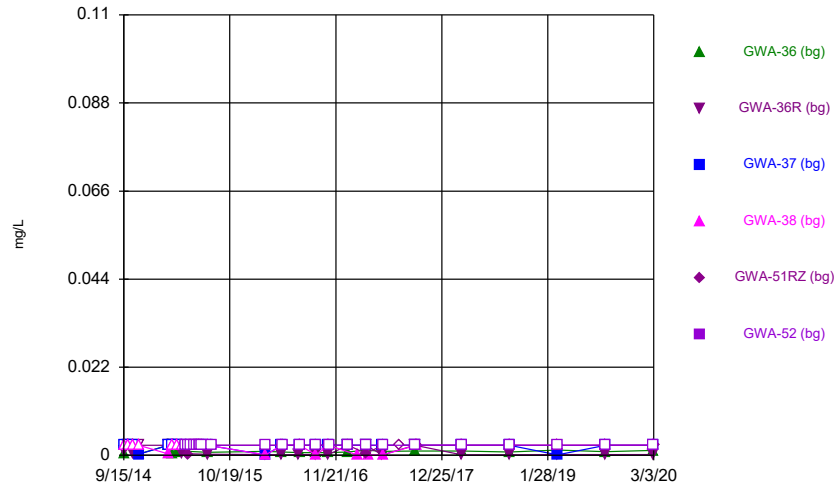
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	<0.04 (D)					
3/4/2016		<0.04				
3/7/2016			<0.04	<0.04	<0.04	
3/8/2016						<0.04
5/5/2016			<0.04	<0.04		
5/9/2016					<0.04	<0.04
5/10/2016	<0.04	<0.04				
7/13/2016	0.0297 (J)		0.0047 (J)	0.0159 (J)		
7/14/2016		0.0069 (J)			0.0045 (J)	<0.04
9/12/2016				<0.04	<0.04	<0.04
9/13/2016			<0.04			
9/14/2016		<0.04				
9/15/2016	<0.04					
10/31/2016			0.0111 (J)		0.0086 (J)	0.007 (J)
11/1/2016		<0.04		<0.04		
11/2/2016	<0.04					
1/11/2017	<0.04	0.0078 (J)		<0.04	<0.04	
1/12/2017			<0.04			<0.04
3/20/2017	0.0092 (J)			<0.04		
3/21/2017		<0.04			<0.04	
3/22/2017						<0.04
3/23/2017			<0.04			
5/22/2017				0.0452	<0.04	<0.04
5/23/2017	<0.04	<0.04	<0.04			
9/19/2017						<0.04
9/20/2017					<0.04	
9/21/2017	<0.04			<0.04		
9/22/2017		<0.04				
9/25/2017			<0.04			
3/14/2018	0.0065 (J)	0.0051 (J)	<0.04	<0.04	0.0076 (J)	<0.04
9/7/2018	<0.04			<0.04		
9/10/2018					<0.04	<0.04
9/11/2018		<0.04	<0.04			
3/11/2019	0.013 (J)					
3/12/2019		0.0099 (J)	<0.04	<0.04	<0.04	0.0045 (J)
9/6/2019				<0.04		0.02365 (D)
9/9/2019	<0.04		<0.04		<0.04	
9/10/2019		<0.04				
3/4/2020	0.027 (J)				<0.04	
3/5/2020		<0.04		<0.04		<0.04
3/6/2020			<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

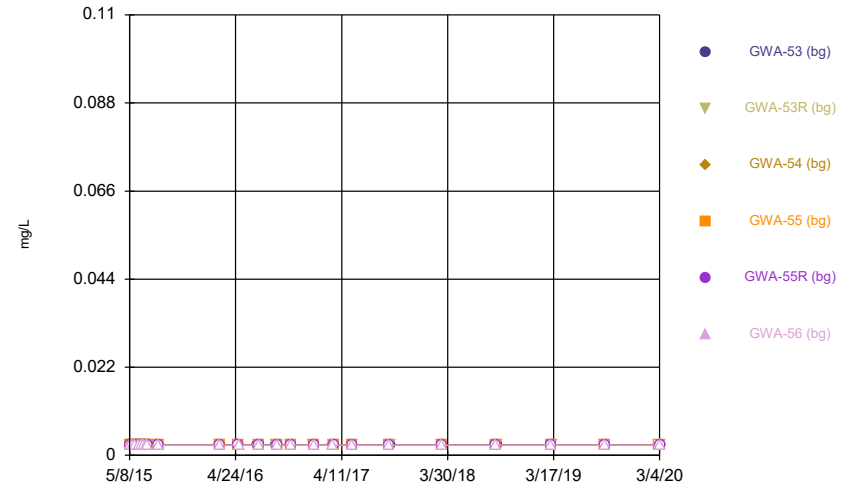
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				<0.04	
3/7/2016		<0.04			
3/8/2016	<0.04				<0.04
3/9/2016			<0.04		
5/4/2016					<0.04
5/5/2016		<0.04		<0.04	
5/6/2016			0.0271 (J)		
5/9/2016	<0.04				
7/12/2016				0.005 (J)	
7/14/2016		0.0047 (J)			
7/15/2016	<0.04		0.0055 (J)		
7/18/2016					<0.04
9/9/2016	<0.04				
9/12/2016		<0.04			
9/13/2016				<0.04	<0.04
9/14/2016			0.0094 (J)		
10/27/2016	0.0103 (J)	0.0153 (J)		0.0093 (J)	0.0162 (J)
11/1/2016			0.008 (J)		
1/12/2017	<0.04				
1/13/2017		<0.04		<0.04	<0.04
1/25/2017			<0.04		
3/16/2017					<0.04
3/20/2017		<0.04		<0.04	
3/21/2017	<0.04				
3/22/2017			<0.04		
5/19/2017				<0.04	<0.04
5/23/2017	<0.04	<0.04			
5/24/2017			0.0133 (J)		
9/19/2017	<0.04	<0.04		<0.04	<0.04
9/21/2017			<0.04		
3/13/2018		<0.04		0.0042 (J)	<0.04
3/14/2018	0.0053 (J)		0.0056 (J)		
9/7/2018		<0.04			
9/10/2018	<0.04				
9/11/2018			<0.04	<0.04	<0.04
3/8/2019				<0.04	<0.04
3/11/2019	0.005 (J)	<0.04			
3/12/2019			0.0047 (J)		
9/5/2019		<0.04		<0.04 (D)	<0.04
9/6/2019	<0.04		<0.04		
3/3/2020	0.0096 (J)	0.0066 (J)		<0.04	<0.04
3/5/2020			<0.04		

Time Series



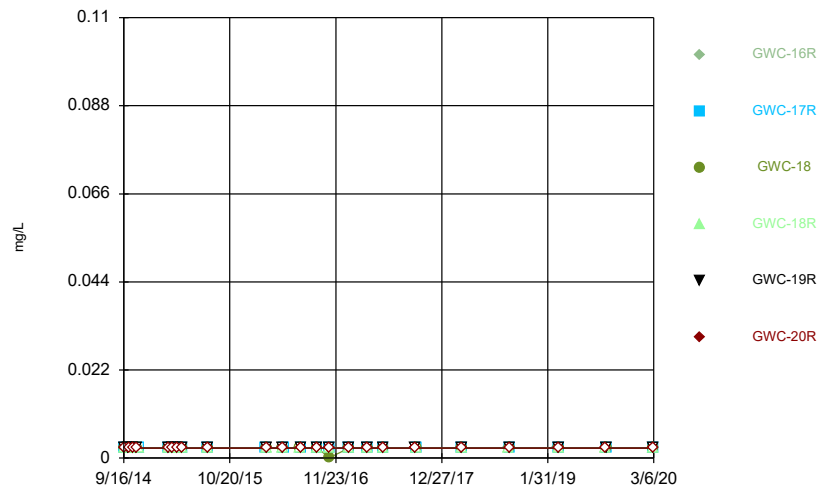
Constituent: Cadmium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



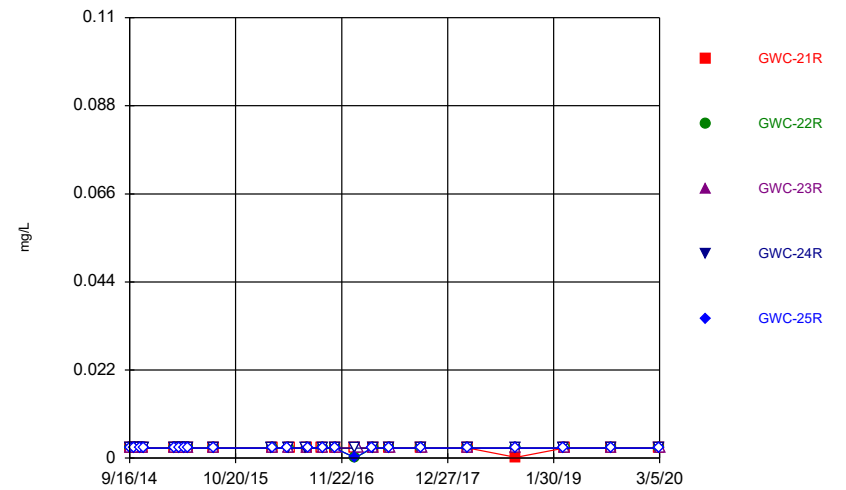
Constituent: Cadmium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Cadmium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Cadmium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	0.00035 (J)	0.001 (J)				
9/16/2014			<0.0025	<0.0025		
10/3/2014	<0.0025	<0.0025	<0.0025	<0.0025		
10/20/2014	<0.0025	0.00036 (J)	<0.0025	<0.0025		
11/10/2014	0.00033 (J)	<0.0025	0.00026 (J)	<0.0025		
3/2/2015	<0.0025	<0.0025	<0.0025	0.00035 (J)		
3/17/2015	0.00057 (J)	<0.0025	<0.0025	<0.0025		
4/5/2015	0.00068 (J)	<0.0025	<0.0025			
4/6/2015				<0.0025		
4/21/2015	0.0011 (J)	0.00044 (J)				
4/22/2015			<0.0025	<0.0025		
5/8/2015					<0.0025	<0.0025
5/17/2015					0.00029 (J)	<0.0025
5/25/2015					<0.0025	<0.0025
6/8/2015					<0.0025	<0.0025
6/18/2015					<0.0025	<0.0025
6/24/2015					<0.0025	<0.0025
6/30/2015					<0.0025	<0.0025
7/6/2015					<0.0025	<0.0025
7/28/2015	0.00073 (J)	0.00027 (J)	<0.0025	<0.0025		
8/12/2015					<0.0025	<0.0025
2/29/2016						<0.0025
3/1/2016	0.00103	0.000207 (J)	0.000103 (J)			
3/2/2016				0.000109 (J)		
5/2/2016	0.000846 (J)	0.000154 (J)				
5/3/2016			<0.0025	<0.0025		
5/4/2016					<0.0025 (D)	<0.0025
7/6/2016		0.0002 (J)				
7/7/2016	0.0007 (J)			<0.0025	<0.0025 (D)	
7/8/2016			<0.0025			<0.0025
9/7/2016	0.0007 (J)	0.0002 (J)	<0.0025			
9/8/2016				0.0001 (J)	<0.0025 (D)	<0.0025
10/25/2016	0.0007 (J)	0.0002 (J)	<0.0025	<0.0025		
10/26/2016					<0.0025 (D)	<0.0025
1/5/2017	0.0008 (J)	<0.0025				
1/6/2017			<0.0025		<0.0025 (D)	<0.0025
2/9/2017				0.0001 (J)		
3/14/2017		<0.0025	<0.0025			
3/15/2017	0.0013				0.00055 (D)	<0.0025
3/23/2017				0.0001 (J)		
5/16/2017		0.0001 (J)	<0.0025			
5/17/2017	0.001			0.0001 (J)		<0.0025
5/18/2017					<0.0025 (D)	
7/19/2017					<0.0025 (D)	
9/15/2017	0.0011	<0.0025	<0.0025			<0.0025
9/19/2017				<0.0025	<0.0025 (D)	
3/12/2018	0.0011	0.00013 (J)	<0.0025			
3/13/2018				<0.0025	<0.0025	<0.0025
9/6/2018	0.00086 (J)	0.00011 (J)	<0.0025	<0.0025		<0.0025
9/7/2018					<0.0025	
3/6/2019	0.0013		9.3E-05 (J)			
3/7/2019		0.00017 (J)		<0.0025		<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.0025	
9/4/2019	0.00088 (J)	0.00016 (J)	<0.0025	<0.0025 (D)	<0.0025	<0.0025
3/2/2020	0.0012 (J)	0.00018 (J)	<0.0025	<0.0025		<0.0025
3/3/2020					<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.0025				
5/9/2015	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
5/17/2015		<0.0025				
5/18/2015	<0.0025		<0.0025	<0.0025	<0.0025	
5/19/2015						<0.0025
5/25/2015	<0.0025	<0.0025	<0.0025			
5/26/2015				<0.0025	<0.0025	<0.0025
6/8/2015	<0.0025	<0.0025				
6/9/2015			<0.0025	<0.0025	<0.0025	<0.0025
6/17/2015	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/18/2015		<0.0025				
6/24/2015	<0.0025	<0.0025				
6/25/2015			<0.0025	<0.0025	<0.0025	<0.0025
6/30/2015	<0.0025	<0.0025				
7/1/2015			<0.0025	<0.0025	<0.0025	<0.0025
7/6/2015	<0.0025	<0.0025				
7/7/2015			<0.0025	<0.0025	<0.0025	<0.0025
8/12/2015	<0.0025	<0.0025	<0.0025			
8/13/2015				<0.0025	<0.0025	<0.0025
3/2/2016	<0.0025	<0.0025	<0.0025	<0.0025		
3/3/2016					<0.0025	<0.0025
5/3/2016	<0.0025	<0.0025		<0.0025	<0.0025	
5/4/2016			<0.0025			
5/9/2016						<0.0025
7/8/2016	<0.0025		<0.0025			
7/11/2016		<0.0025		<0.0025	<0.0025	<0.0025
9/7/2016		<0.0025				
9/8/2016	<0.0025		<0.0025			
9/9/2016				<0.0025	<0.0025	<0.0025
10/26/2016	<0.0025		<0.0025	<0.0025		<0.0025
10/27/2016		<0.0025			<0.0025	
1/6/2017		<0.0025				
1/9/2017	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
3/15/2017			<0.0025			<0.0025
3/16/2017	<0.0025	<0.0025		<0.0025	<0.0025	
5/18/2017			<0.0025	<0.0025	<0.0025	<0.0025
5/19/2017	<0.0025	<0.0025				
9/15/2017			<0.0025	<0.0025		<0.0025
9/18/2017					<0.0025	
9/19/2017	<0.0025	<0.0025				
3/12/2018				<0.0025	<0.0025	
3/13/2018	<0.0025	<0.0025	<0.0025			<0.0025
9/6/2018			<0.0025			
9/7/2018				<0.0025	<0.0025	<0.0025
9/11/2018	<0.0025	<0.0025				
3/7/2019			<0.0025		<0.0025	<0.0025
3/8/2019	<0.0025			<0.0025		
3/12/2019		<0.0025				
9/4/2019						<0.0025
9/5/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/3/2020			<0.0025	<0.0025		
3/4/2020	<0.0025	<0.0025			<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.0025					
9/17/2014		<0.0025	<0.0025	<0.0025	<0.0025	
9/18/2014						<0.0025
10/4/2014	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/5/2014						<0.0025
10/21/2014	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/22/2014						<0.0025
11/5/2014			<0.0025		<0.0025	<0.0025
11/11/2014	<0.0025	<0.0025		<0.0025		
3/3/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/4/2015						<0.0025
3/18/2015	<0.0025	<0.0025	<0.0025	<0.0025		
3/19/2015					<0.0025	<0.0025
4/6/2015	<0.0025	<0.0025				
4/7/2015			<0.0025	<0.0025	<0.0025	<0.0025
4/23/2015	<0.0025	<0.0025	<0.0025	<0.0025		
4/24/2015					<0.0025	<0.0025
7/29/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/30/2015						<0.0025
3/3/2016	<0.0025 (D)					
3/4/2016		<0.0025				
3/7/2016			<0.0025	<0.0025	<0.0025	
3/8/2016						<0.0025
5/5/2016			<0.0025	<0.0025		
5/9/2016					<0.0025	<0.0025
5/10/2016	<0.0025	<0.0025				
7/13/2016	<0.0025		<0.0025	<0.0025		
7/14/2016		<0.0025			<0.0025	<0.0025
9/12/2016				<0.0025	<0.0025	<0.0025
9/13/2016			<0.0025			
9/14/2016		<0.0025				
9/15/2016	<0.0025					
10/31/2016			8E-05 (J)		<0.0025	<0.0025
11/1/2016		<0.0025		<0.0025		
11/2/2016	<0.0025					
1/11/2017	<0.0025	<0.0025		<0.0025	<0.0025	
1/12/2017			<0.0025			<0.0025
3/20/2017	<0.0025			<0.0025		
3/21/2017		<0.0025			<0.0025	
3/22/2017						<0.0025
3/23/2017			<0.0025			
5/22/2017				<0.0025	<0.0025	<0.0025
5/23/2017	<0.0025	<0.0025	<0.0025			
9/19/2017						<0.0025
9/20/2017					<0.0025	
9/21/2017	<0.0025			<0.0025		
9/22/2017		<0.0025				
9/25/2017			<0.0025			
3/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/7/2018	<0.0025			<0.0025		
9/10/2018					<0.0025	<0.0025
9/11/2018		<0.0025	<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.0025					
3/12/2019		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/6/2019				<0.0025		<0.0025 (D)
9/9/2019	<0.0025		<0.0025		<0.0025	
9/10/2019		<0.0025				
3/4/2020	<0.0025				<0.0025	
3/5/2020		<0.0025		<0.0025		<0.0025
3/6/2020			<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

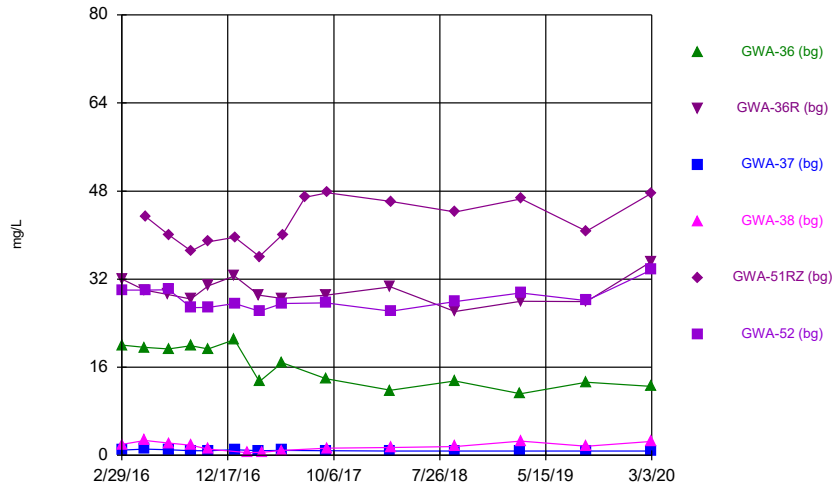
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.0025	<0.0025
9/18/2014	<0.0025	<0.0025	<0.0025		
10/4/2014				<0.0025	<0.0025
10/5/2014	<0.0025	<0.0025	<0.0025		
10/22/2014	<0.0025	<0.0025	<0.0025		
10/23/2014				<0.0025	<0.0025
11/5/2014	<0.0025	<0.0025	<0.0025		
11/10/2014				<0.0025	<0.0025
3/4/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/19/2015	<0.0025	<0.0025			
3/20/2015			<0.0025	<0.0025	<0.0025
4/8/2015	<0.0025	<0.0025	<0.0025	<0.0025	
4/9/2015					<0.0025
4/23/2015			<0.0025	<0.0025	<0.0025
4/24/2015	<0.0025	<0.0025			
7/30/2015	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/4/2016				<0.0025	
3/7/2016		<0.0025			
3/8/2016	<0.0025				<0.0025
3/9/2016			<0.0025		
5/4/2016					<0.0025
5/5/2016		<0.0025		<0.0025	
5/6/2016			<0.0025		
5/9/2016	<0.0025				
7/12/2016				<0.0025	
7/14/2016		<0.0025			
7/15/2016	<0.0025		<0.0025		
7/18/2016					<0.0025
9/9/2016	<0.0025				
9/12/2016		<0.0025			
9/13/2016				<0.0025	<0.0025
9/14/2016			<0.0025		
10/27/2016	<0.0025	<0.0025		<0.0025	<0.0025
11/1/2016			<0.0025		
1/12/2017	<0.0025				
1/13/2017		8E-05 (J)		<0.0025	0.0001 (J)
1/25/2017			<0.0025		
3/16/2017					<0.0025
3/20/2017		<0.0025		<0.0025	
3/21/2017	<0.0025				
3/22/2017			<0.0025		
5/19/2017				<0.0025	<0.0025
5/23/2017	<0.0025	<0.0025			
5/24/2017			<0.0025		
9/19/2017	<0.0025	<0.0025		<0.0025	<0.0025
9/21/2017			<0.0025		
3/13/2018		<0.0025		<0.0025	<0.0025
3/14/2018	<0.0025		<0.0025		
9/7/2018		<0.0025			
9/10/2018	0.00021 (J)				
9/11/2018			<0.0025	<0.0025	<0.0025
3/8/2019				<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

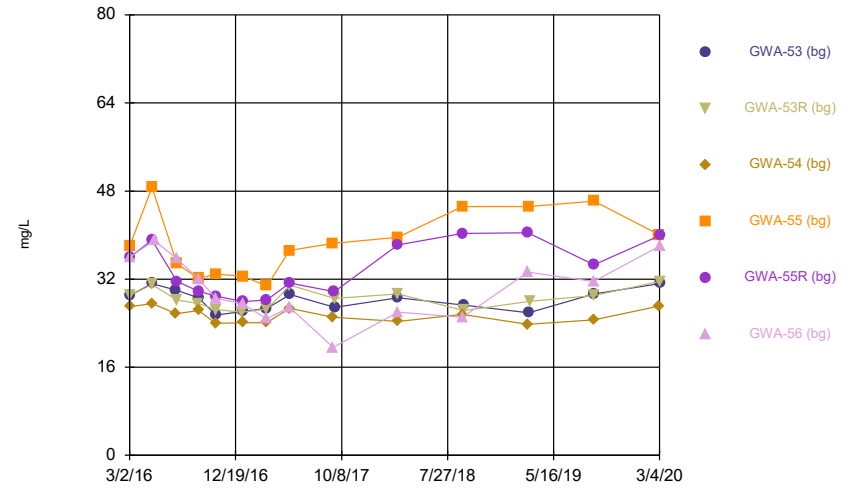
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.0025	<0.0025			
3/12/2019			<0.0025		
9/5/2019		<0.0025		<0.0025 (D)	<0.0025
9/6/2019	<0.0025		<0.0025		
3/3/2020	<0.0025	<0.0025		<0.0025	<0.0025
3/5/2020			<0.0025		

Time Series



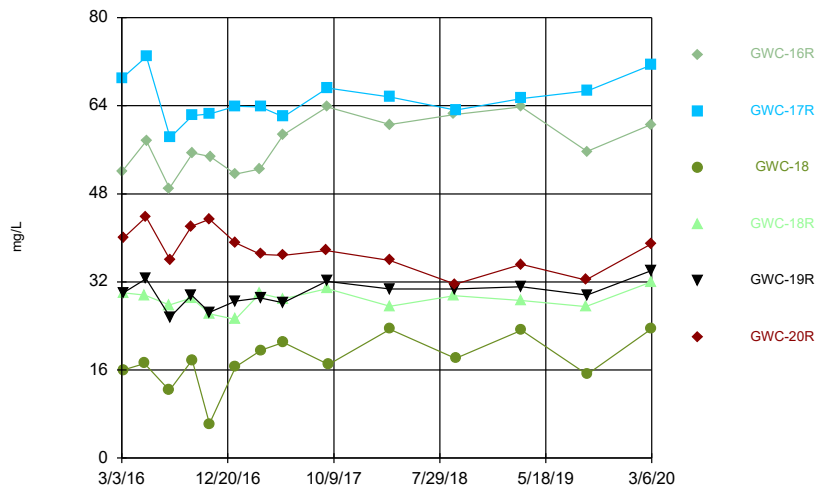
Constituent: Calcium Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



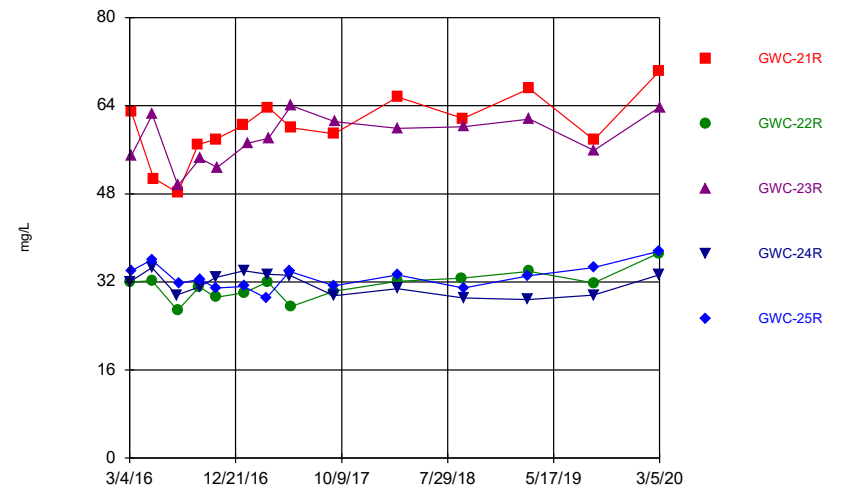
Constituent: Calcium Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Calcium Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Calcium Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						30
3/1/2016	20	32	0.98			
3/2/2016				2		
5/2/2016	19.6	30				
5/3/2016			1.12	2.68		
5/4/2016					43.4 (D)	30
7/6/2016		29.2				
7/7/2016	19.3			2.21	40.1 (D)	
7/8/2016			1			30.1
9/7/2016	19.9	28.4	0.858			
9/8/2016				1.8	37.1 (D)	26.8
10/25/2016	19.3	30.8	0.859	1.15		
10/26/2016					38.8 (D)	26.9
1/5/2017	21	32.6				
1/6/2017			1		39.6 (D)	27.6
2/9/2017				0.495 (J)		
3/14/2017		29.1	0.844			
3/15/2017	13.4				36.1 (D)	26.2
3/23/2017				0.543		
5/16/2017		28.5	0.922			
5/17/2017	16.8			0.889		27.6
5/18/2017					40.1 (D)	
7/19/2017					46.9 (D)	
9/15/2017	13.9	29.1	0.85			27.7
9/19/2017				1.28	47.7 (D)	
3/12/2018	11.8 (J)	30.6	0.81			
3/13/2018				1.4	46.1 (D)	26.2
9/6/2018	13.5 (J)	26.1	0.79	1.6		27.9
9/7/2018					44.2	
3/6/2019	11.2 (J)		0.78			
3/7/2019		28		2.6		29.5
3/8/2019					46.6	
9/4/2019	13.3	27.9	0.76	1.65 (D)	40.7	28.1
3/2/2020	12.5	35.2	0.77 (J)	2.5		33.7
3/3/2020					47.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	29	29	27	38		
3/3/2016					36	36
5/3/2016	31.2	31		48.7	39.1	
5/4/2016			27.6			
5/9/2016						39
7/8/2016	30		25.7			
7/11/2016		28.2		34.8	31.6	35.7
9/7/2016		27.6				
9/8/2016	28.6		26.3			
9/9/2016				32.1	29.8	32
10/26/2016	25.5		24	32.9		28.5
10/27/2016		26.5			28.9	
1/6/2017		26				
1/9/2017	26.1		24.1	32.5	27.9	27.5
3/15/2017			24.1			24.8
3/16/2017	26.7	26.6		30.8	28.2	
5/18/2017			26.7	37.2	31.3	26.9
5/19/2017	29.2	30.9				
9/15/2017			25.1	38.5		19.6
9/18/2017					29.7	
9/19/2017	26.9	28.5				
3/12/2018				39.6	38.2	
3/13/2018	28.6	29.3	24.3 (J)			26
9/6/2018			25.6			
9/7/2018				45.2	40.3	25.1
9/11/2018	27.3	26.3				
3/7/2019			23.8 (J)		40.4	33.3
3/8/2019	25.9			45.2		
3/12/2019		28				
9/4/2019						31.6
9/5/2019	29.3	29	24.6	46.2	34.6	
3/3/2020			27.1	40.1		
3/4/2020	31.2	31.6			39.9	38

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

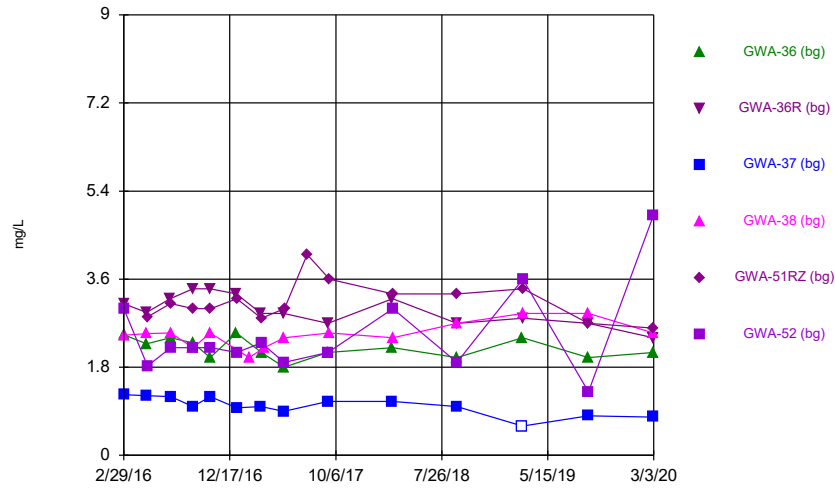
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	52 (D)					
3/4/2016		69				
3/7/2016			16	30	30	
3/8/2016						40
5/5/2016			17.2	29.6		
5/9/2016					32.6	43.8
5/10/2016	57.6	72.9				
7/13/2016	49		12.3	27.8		
7/14/2016		58.2			25.6	36
9/12/2016				29.1	29.6	42.1
9/13/2016			17.8			
9/14/2016		62.2				
9/15/2016	55.4					
10/31/2016			6.22		26.5	43.4
11/1/2016		62.5		26.2		
11/2/2016	54.8					
1/11/2017	51.6	63.9		25.2	28.5	
1/12/2017			16.6			39.1
3/20/2017	52.5			29.9		
3/21/2017		63.8			29.1	
3/22/2017						37
3/23/2017			19.6			
5/22/2017				28.9	28.2	36.8
5/23/2017	58.7	62	21			
9/19/2017						37.7
9/20/2017					32.1	
9/21/2017	63.8			30.8		
9/22/2017		67.2				
9/25/2017			17			
3/14/2018	60.6	65.6	23.4 (J)	27.6	30.7	35.9
9/7/2018	62.4			29.5		
9/10/2018					30.7	31.6
9/11/2018		63.2	18.1 (J)			
3/11/2019	63.8					
3/12/2019		65.3	23.2 (J)	28.6	31.1	35.2
9/6/2019				27.5		32.35 (D)
9/9/2019	55.7		15.2		29.6	
9/10/2019		66.7				
3/4/2020	60.6				34	
3/5/2020		71.4		32		38.9
3/6/2020			23.5			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

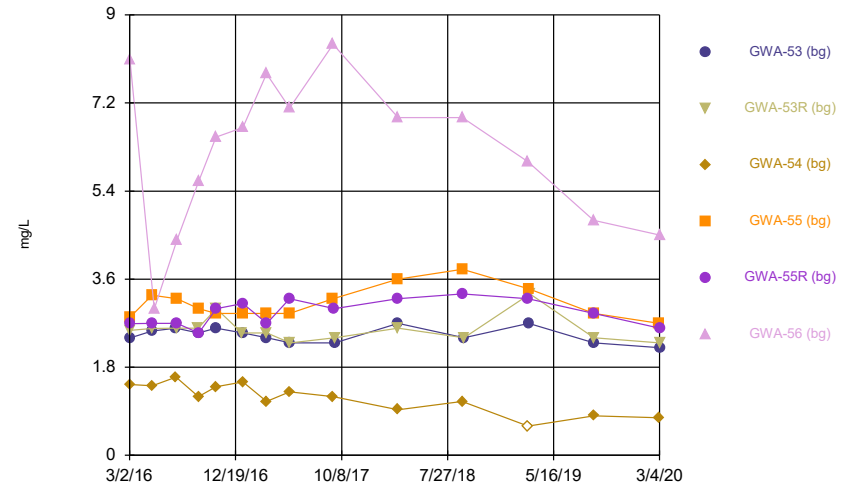
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				32	
3/7/2016		32			
3/8/2016	63				34
3/9/2016			55		
5/4/2016					36
5/5/2016		32.2		34.6	
5/6/2016			62.4		
5/9/2016	50.8				
7/12/2016				29.6	
7/14/2016		26.8			
7/15/2016	48.2		49.5		
7/18/2016					31.7
9/9/2016	56.9				
9/12/2016		31.1			
9/13/2016				31.1	32.5
9/14/2016			54.4		
10/27/2016	57.9	29.2		32.8	30.9
11/1/2016			52.8		
1/12/2017	60.5				
1/13/2017		30		34	31.2
1/25/2017			57.2		
3/16/2017					29
3/20/2017		32		33.4	
3/21/2017	63.7				
3/22/2017			58.1		
5/19/2017				33.2	33.9
5/23/2017	60	27.5			
5/24/2017			64		
9/19/2017	58.9	30.3		29.5	31.3
9/21/2017			61.1		
3/13/2018		32.1		30.8	33.3
3/14/2018	65.6		59.9		
9/7/2018		32.7			
9/10/2018	61.7				
9/11/2018			60.2	29.1	30.9
3/8/2019				28.8	33.1
3/11/2019	67.1	33.9			
3/12/2019			61.6		
9/5/2019		31.8		29.6 (D)	34.6
9/6/2019	57.8		55.9		
3/3/2020	70.2	37.2		33.3	37.6
3/5/2020			63.7		

Time Series



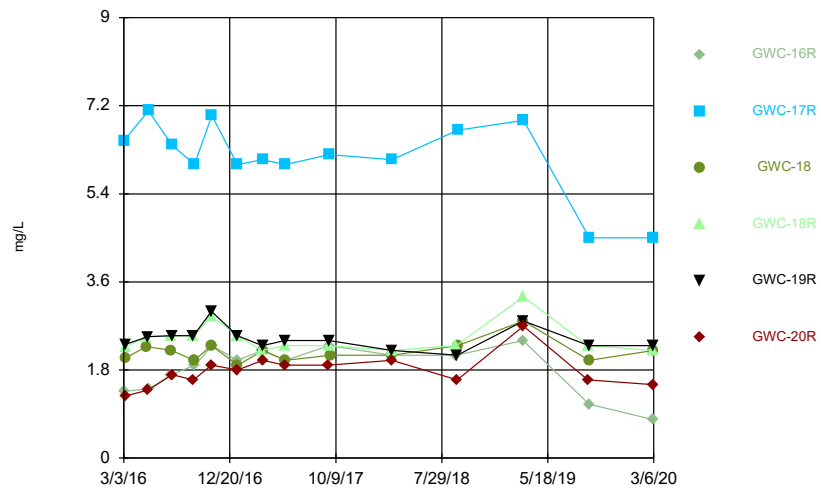
Constituent: Chloride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



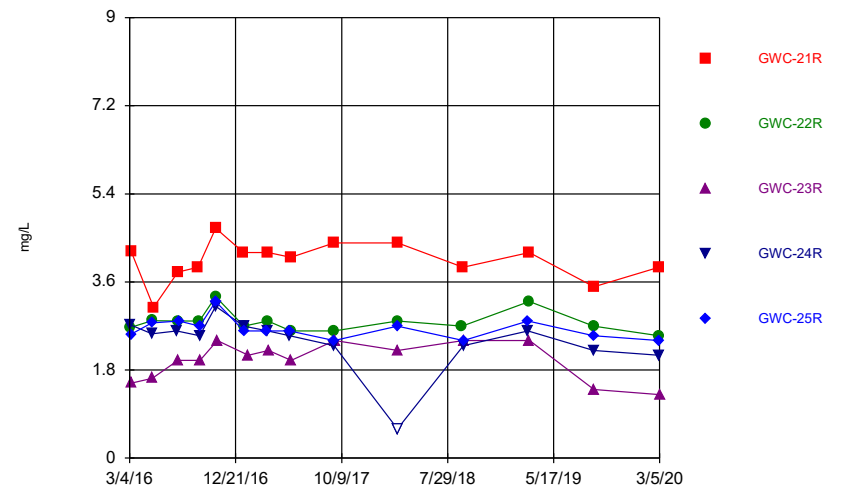
Constituent: Chloride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Chloride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Chloride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						2.9988
3/1/2016	2.4587	3.096	1.2389			
3/2/2016				2.4559		
5/2/2016	2.28	2.92				
5/3/2016			1.22	2.49		
5/4/2016					2.83 (D)	1.83
7/6/2016		3.2				
7/7/2016	2.4			2.5	3.1 (D)	
7/8/2016			1.2			2.2
9/7/2016	2.3	3.4	1			
9/8/2016				2.2	3 (D)	2.2
10/25/2016	2	3.4	1.2	2.5		
10/26/2016					3 (D)	2.2
1/5/2017	2.5 (J)	3.3				
1/6/2017			0.97		3.2 (D)	2.1
2/9/2017				2		
3/14/2017		2.9	1			
3/15/2017	2.1				2.8 (D)	2.3
3/23/2017				2.2		
5/16/2017		2.9	0.9			
5/17/2017	1.8			2.4		1.9
5/18/2017					3 (D)	
7/19/2017					4.1 (D)	
9/15/2017	2.1	2.7	1.1			2.1
9/19/2017				2.5	3.6 (D)	
3/12/2018	2.2	3.2	1.1			
3/13/2018				2.4	3.3	3
9/6/2018	2	2.7	1	2.7		1.9
9/7/2018					3.3	
3/6/2019	2.4		<1.2			
3/7/2019		2.8		2.9		3.6
3/8/2019					3.4	
9/4/2019	2	2.7	0.81 (J)	2.9	2.7	1.3
3/2/2020	2.1	2.4	0.78 (J)	2.5		4.9
3/3/2020					2.6	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	2.3976	2.556	1.4496	2.815		
3/3/2016					2.6912	8.0925
5/3/2016	2.54	2.59		3.27	2.7	
5/4/2016			1.42			
5/9/2016						2.99
7/8/2016	2.6		1.6			
7/11/2016		2.6		3.2	2.7	4.4
9/7/2016		2.6				
9/8/2016	2.5		1.2			
9/9/2016				3	2.5	5.6
10/26/2016	2.6		1.4	2.9		6.5
10/27/2016		3			3	
1/6/2017		2.5				
1/9/2017	2.5		1.5	2.9	3.1	6.7
3/15/2017			1.1			7.8
3/16/2017	2.4	2.5		2.9	2.7	
5/18/2017			1.3	2.9	3.2	7.1
5/19/2017	2.3	2.3				
9/15/2017			1.2	3.2		8.4
9/18/2017					3	
9/19/2017	2.3	2.4				
3/12/2018				3.6	3.2	
3/13/2018	2.7	2.6	0.93			6.9
9/6/2018			1.1			
9/7/2018				3.8	3.3	6.9
9/11/2018	2.4	2.4				
3/7/2019			<1.2		3.2	6
3/8/2019	2.7			3.4		
3/12/2019		3.3				
9/4/2019						4.8
9/5/2019	2.3	2.4	0.81 (J)	2.9	2.9	
3/3/2020			0.77 (J)	2.7		
3/4/2020	2.2	2.3			2.6	4.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

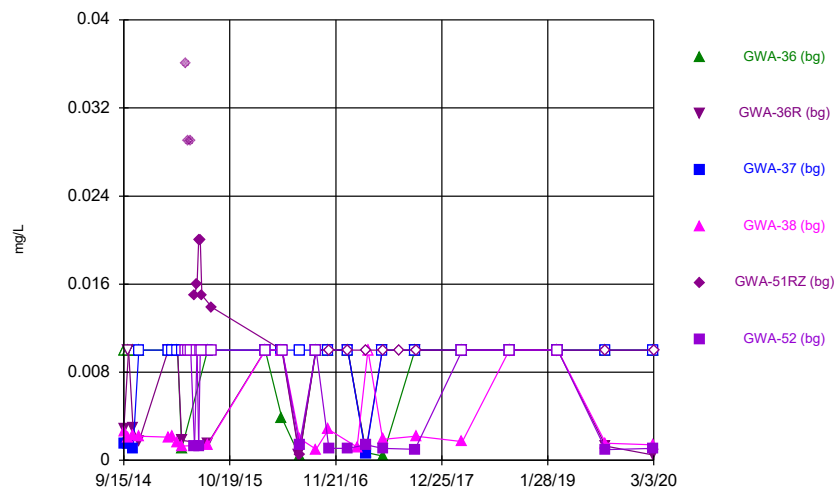
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	1.3707 (D)					
3/4/2016		6.4905				
3/7/2016			2.0446	2.2698	2.3254	
3/8/2016						1.2699
5/5/2016			2.28	2.48		
5/9/2016					2.48	1.39
5/10/2016	1.41	7.1				
7/13/2016	1.7		2.2	2.5		
7/14/2016		6.4			2.5	1.7
9/12/2016				2.5	2.5	1.6
9/13/2016			2			
9/14/2016		6				
9/15/2016	1.9					
10/31/2016			2.3		3	1.9
11/1/2016		7		2.9		
11/2/2016	2.3					
1/11/2017	2	6		2.5	2.5	
1/12/2017			1.9			1.8
3/20/2017	2.2			2.2		
3/21/2017		6.1			2.3	
3/22/2017						2
3/23/2017			2.2			
5/22/2017				2.3	2.4	1.9
5/23/2017	2	6	2			
9/19/2017						1.9
9/20/2017					2.4	
9/21/2017	2.3			2.3		
9/22/2017		6.2				
9/25/2017			2.1			
3/14/2018	2.1	6.1	2.1	2.2	2.2	2
9/7/2018	2.1			2.3		
9/10/2018					2.1	1.6
9/11/2018		6.7	2.3			
3/11/2019	2.4					
3/12/2019		6.9	2.8	3.3	2.8	2.7
9/6/2019				2.3		1.6 (D)
9/9/2019	1.1		2		2.3	
9/10/2019		4.5				
3/4/2020	0.79 (J)				2.3	
3/5/2020		4.5		2.2		1.5
3/6/2020			2.2			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

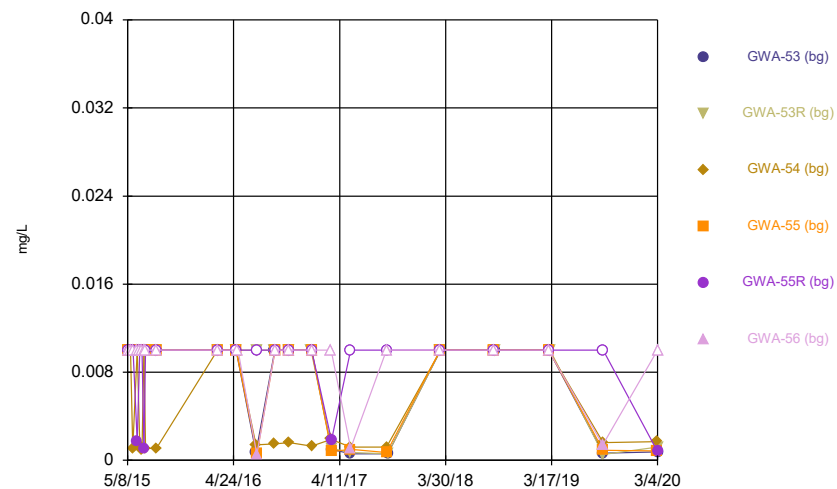
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				2.7291	
3/7/2016		2.6729			
3/8/2016	4.2184				2.5307
3/9/2016			1.5349		
5/4/2016					2.76
5/5/2016		2.81		2.54	
5/6/2016			1.63		
5/9/2016	3.08				
7/12/2016				2.6	
7/14/2016		2.8			
7/15/2016	3.8		2		
7/18/2016					2.8
9/9/2016	3.9				
9/12/2016		2.8			
9/13/2016				2.5	2.7
9/14/2016			2		
10/27/2016	4.7	3.3		3.1	3.2
11/1/2016			2.4		
1/12/2017	4.2				
1/13/2017		2.7		2.7	2.6
1/25/2017			2.1		
3/16/2017					2.6
3/20/2017		2.8		2.6	
3/21/2017	4.2				
3/22/2017			2.2		
5/19/2017				2.5	2.6
5/23/2017	4.1	2.6			
5/24/2017			2		
9/19/2017	4.4	2.6		2.3	2.4
9/21/2017			2.4		
3/13/2018		2.8		<1.2	2.7
3/14/2018	4.4		2.2		
9/7/2018		2.7			
9/10/2018	3.9				
9/11/2018			2.4	2.3	2.4
3/8/2019				2.6	2.8
3/11/2019	4.2	3.2			
3/12/2019			2.4		
9/5/2019		2.7		2.2	2.5
9/6/2019	3.5		1.4		
3/3/2020	3.9	2.5		2.1	2.4
3/5/2020			1.3		

Time Series



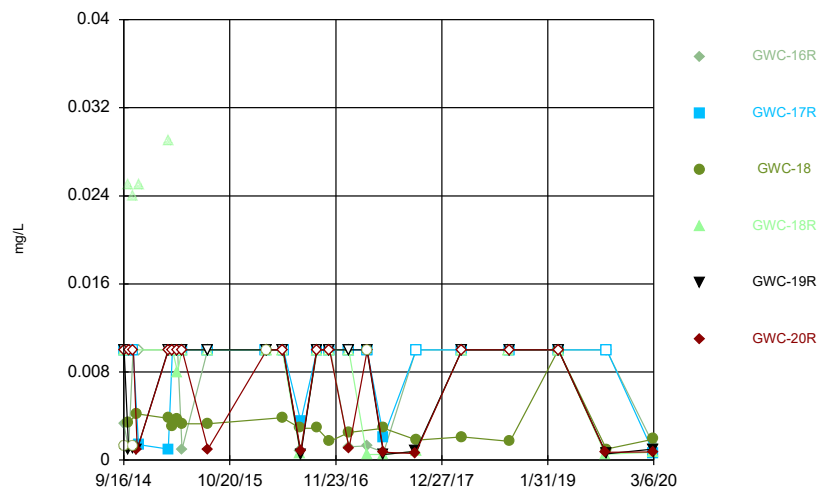
Constituent: Chromium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



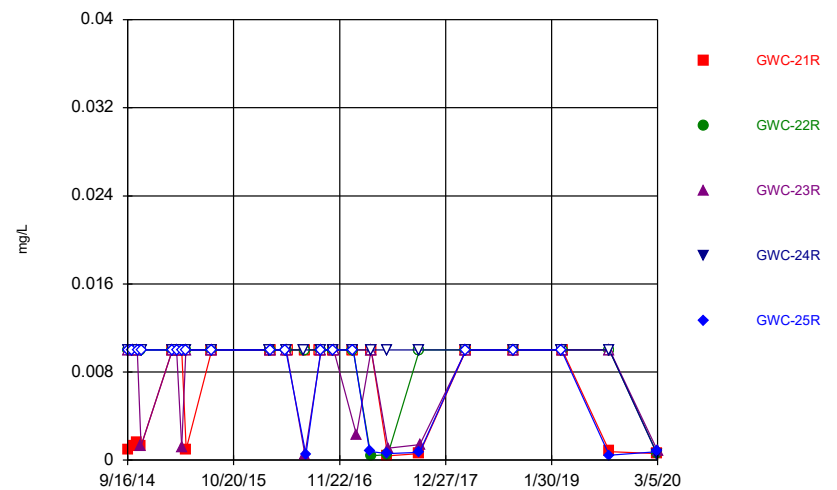
Constituent: Chromium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Chromium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Chromium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.01	0.0028				
9/16/2014			0.0015	0.0026		
10/3/2014	<0.01	<0.01	0.0015	0.0021		
10/20/2014	<0.01	0.0029	0.0011 (J)	0.0023		
11/10/2014	<0.01	0.0017	<0.01	0.0022		
3/2/2015	<0.01	<0.01	<0.01	0.0021		
3/17/2015	<0.01	<0.01	<0.01	0.0022		
4/5/2015	<0.01	<0.01	<0.01			
4/6/2015				0.0016		
4/21/2015	0.0011 (J)	0.0018				
4/22/2015			<0.01	0.0013		
5/8/2015					0.036 (o)	<0.01
5/17/2015					0.029 (o)	<0.01
5/25/2015					0.029 (o)	<0.01
6/8/2015					0.015	0.0013
6/18/2015					0.016	<0.01
6/24/2015					0.02	0.0013
6/30/2015					0.02	<0.01
7/6/2015					0.015	<0.01
7/28/2015	<0.01	0.0015	<0.01	0.0014		
8/12/2015					0.0139	<0.01
2/29/2016						<0.01
3/1/2016	<0.01	<0.01	<0.01			
3/2/2016				<0.01		
5/2/2016	0.00385 (J)	<0.01				
5/3/2016			<0.01	<0.01		
5/4/2016					<0.01 (D)	<0.01
7/6/2016		0.0005 (J)				
7/7/2016	0.0004 (J)			0.002 (J)	0.0005 (JD)	
7/8/2016			<0.01			0.0014 (J)
9/7/2016	<0.01	<0.01	<0.01			
9/8/2016				0.001 (J)	<0.01 (D)	<0.01
10/25/2016	<0.01	<0.01	<0.01	0.0028 (J)		
10/26/2016					<0.01 (D)	0.0011 (J)
1/5/2017	<0.01	<0.01				
1/6/2017			<0.01		<0.01 (D)	0.0011 (J)
2/9/2017				0.0012 (J)		
3/14/2017		0.0008 (J)	0.0006 (J)			
3/15/2017	0.0007 (J)				<0.01 (D)	0.0014 (J)
3/23/2017				<0.01		
5/16/2017		<0.01	<0.01			
5/17/2017	0.0004 (J)			0.0019 (J)		0.0011 (J)
5/18/2017					<0.01 (D)	
7/19/2017					<0.01 (D)	
9/15/2017	<0.01	<0.01	<0.01			0.001 (J)
9/19/2017				0.0022 (J)	<0.01 (D)	
3/12/2018	<0.01	<0.01	<0.01			
3/13/2018				0.0017 (J)	<0.01	<0.01
9/6/2018	<0.01	<0.01	<0.01	<0.01		<0.01
9/7/2018					<0.01	
3/6/2019	<0.01		<0.01			
3/7/2019		<0.01		<0.01		<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.01	
9/4/2019	<0.01	0.0013 (J)	<0.01	0.00155 (JD)	<0.01	0.00096 (J)
3/2/2020	<0.01	0.00047 (J)	<0.01	0.0014 (J)		0.0011 (J)
3/3/2020					<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.01				
5/9/2015	<0.01		<0.01	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	<0.01		<0.01	<0.01	<0.01	
5/19/2015						<0.01
5/25/2015	<0.01	<0.01	0.0011 (J)			
5/26/2015				<0.01	<0.01	<0.01
6/8/2015	<0.01	<0.01				
6/9/2015			<0.01	<0.01	0.0017	<0.01
6/17/2015	<0.01		0.0014	<0.01	<0.01	<0.01
6/18/2015		<0.01				
6/24/2015	<0.01	<0.01				
6/25/2015			0.001 (J)	<0.01	<0.01	<0.01
6/30/2015	<0.01	<0.01				
7/1/2015			<0.01	<0.01	0.0011 (J)	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			0.0011 (J)	<0.01	<0.01	<0.01
8/12/2015	<0.01	<0.01	0.0011 (J)			
8/13/2015				<0.01	<0.01	<0.01
3/2/2016	<0.01	<0.01	<0.01	<0.01		
3/3/2016					<0.01	<0.01
5/3/2016	<0.01	<0.01		<0.01	<0.01	
5/4/2016			<0.01			
5/9/2016						<0.01
7/8/2016	0.0007 (J)		0.0014 (J)			
7/11/2016		<0.01		0.0006 (J)	<0.01	0.0005 (J)
9/7/2016		<0.01				
9/8/2016	<0.01		0.0015 (J)			
9/9/2016				<0.01	<0.01	<0.01
10/26/2016	<0.01		0.0016 (J)	<0.01		<0.01
10/27/2016		<0.01			<0.01	
1/6/2017		<0.01				
1/9/2017	<0.01		0.0013 (J)	<0.01	<0.01	<0.01
3/15/2017			0.0019 (J)			<0.01
3/16/2017	0.001 (J)	0.0011 (J)		0.0008 (J)	0.0018 (J)	
5/18/2017			0.0012 (J)	0.001 (J)	<0.01	0.0011 (J)
5/19/2017	0.0006 (J)	0.0007 (J)				
9/15/2017			0.0012 (J)	0.0007 (J)		<0.01
9/18/2017					<0.01	
9/19/2017	0.0006 (J)	0.0006 (J)				
3/12/2018				<0.01	<0.01	
3/13/2018	<0.01	<0.01	<0.01			<0.01
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		<0.01	<0.01
3/8/2019	<0.01			<0.01		
3/12/2019		<0.01				
9/4/2019						0.0014 (J)
9/5/2019	0.00065 (J)	0.00055 (J)	0.0016 (J)	0.00092 (J)	<0.01	
3/3/2020			0.0017 (J)	0.00085 (J)		
3/4/2020	0.00076 (J)	0.0012 (J)			0.00079 (J)	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0033					
9/17/2014		<0.01	<0.0013 (o)	<0.01	<0.01	
9/18/2014						<0.01
10/4/2014	0.0011 (J)	<0.01	0.0034	0.025 (o)	0.001 (J)	
10/5/2014						<0.01
10/21/2014	<0.01	<0.01	<0.0013 (o)	0.024 (o)	0.0011 (J)	
10/22/2014						<0.01
11/5/2014			0.0042		0.001 (J)	0.001 (J)
11/11/2014	<0.01	0.0014		0.025 (o)		
3/3/2015	<0.01	0.001 (J)	0.0038	0.029 (o)	<0.01	
3/4/2015						<0.01
3/18/2015	<0.01	<0.01	0.0031	<0.01		
3/19/2015					<0.01	<0.01
4/6/2015	<0.01	<0.01				
4/7/2015			0.0037	0.008	<0.01	<0.01
4/23/2015	0.001 (J)	<0.01	0.0033	<0.01		
4/24/2015					<0.01	<0.01
7/29/2015	<0.01	<0.01	0.0033	<0.01	<0.01	
7/30/2015						0.001 (J)
3/3/2016	<0.01 (D)					
3/4/2016		<0.01				
3/7/2016			<0.01 (o)	<0.01	<0.01	
3/8/2016						<0.01
5/5/2016			0.00385 (J)	<0.01		
5/9/2016					<0.01	<0.01
5/10/2016	<0.01	<0.01				
7/13/2016	0.0008 (J)		0.0029 (J)	0.0006 (J)		
7/14/2016		0.0035 (J)			0.0005 (J)	0.0008 (J)
9/12/2016				<0.01	<0.01	<0.01
9/13/2016			0.0029 (J)			
9/14/2016		<0.01				
9/15/2016	<0.01					
10/31/2016			0.0017 (J)		<0.01	<0.01
11/1/2016		<0.01		<0.01		
11/2/2016	<0.01					
1/11/2017	0.0012 (J)	<0.01		<0.01	<0.01	
1/12/2017			0.0025 (J)			0.0011 (J)
3/20/2017	0.0013 (J)			0.0005		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01 (o)			
5/22/2017				0.0005	0.0005 (J)	0.0007 (J)
5/23/2017	0.0007 (J)	0.0021 (J)	0.0029 (J)			
9/19/2017						0.0006 (J)
9/20/2017					0.0008 (J)	
9/21/2017	<0.01			0.0008		
9/22/2017		<0.01				
9/25/2017			0.0018 (J)			
3/14/2018	<0.01	<0.01	0.0021 (J)	<0.01	<0.01	<0.01
9/7/2018	<0.01			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	0.0017 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.01					
3/12/2019		<0.01	<0.01	<0.01	<0.01	<0.01
9/6/2019				0.00053 (J)		0.00071 (JD)
9/9/2019	<0.01		0.001 (J)		0.00056 (J)	
9/10/2019		<0.01				
3/4/2020	0.0014 (J)				0.001 (J)	
3/5/2020		0.00063 (J)		0.0007 (J)		0.00075 (J)
3/6/2020			0.0019 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

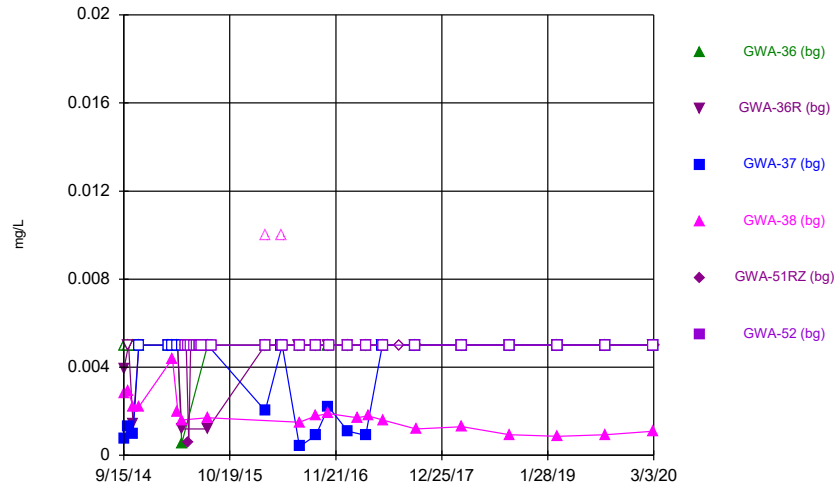
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.01	<0.01
9/18/2014	0.001 (J)	<0.01	<0.01		
10/4/2014				<0.01	<0.01
10/5/2014	0.0013	<0.01	<0.01		
10/22/2014	0.0016	<0.01	<0.01		
10/23/2014				<0.01	<0.01
11/5/2014	0.0013	<0.01	0.0013		
11/10/2014				<0.01	<0.01
3/4/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2015	<0.01	<0.01			
3/20/2015			<0.01	<0.01	<0.01
4/8/2015	<0.01	<0.01	0.0012 (J)	<0.01	
4/9/2015					<0.01
4/23/2015			<0.01	<0.01	<0.01
4/24/2015	0.001 (J)	<0.01			
7/30/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2016				<0.01	
3/7/2016		<0.01			
3/8/2016	<0.01				<0.01
3/9/2016			<0.01		
5/4/2016					<0.01
5/5/2016		<0.01		<0.01	
5/6/2016			<0.01		
5/9/2016	<0.01				
7/12/2016				<0.01	
7/14/2016		<0.01			
7/15/2016	<0.01		0.0005 (J)		
7/18/2016					0.0005 (J)
9/9/2016	<0.01				
9/12/2016		<0.01			
9/13/2016				<0.01	<0.01
9/14/2016			<0.01		
10/27/2016	<0.01	<0.01		<0.01	<0.01
11/1/2016			<0.01		
1/12/2017	<0.01				
1/13/2017		<0.01		<0.01	<0.01
1/25/2017			0.0023 (J)		
3/16/2017					0.0008 (J)
3/20/2017		0.0004 (J)		<0.01	
3/21/2017	<0.01				
3/22/2017			<0.01		
5/19/2017				<0.01	0.0006 (J)
5/23/2017	0.0004 (J)	0.0005 (J)			
5/24/2017			0.0011 (J)		
9/19/2017	0.0006 (J)	<0.01		<0.01	0.0007 (J)
9/21/2017			0.0014 (J)		
3/13/2018		<0.01		<0.01	<0.01
3/14/2018	<0.01		<0.01		
9/7/2018		<0.01			
9/10/2018	<0.01				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

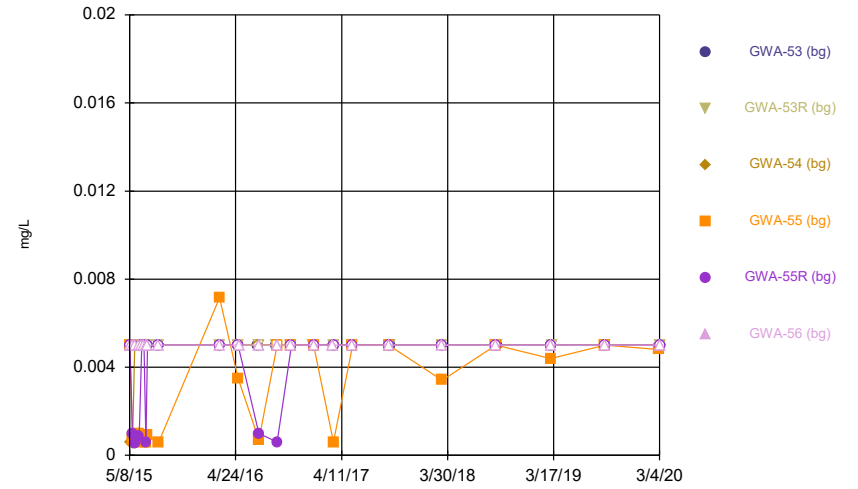
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.01	<0.01			
3/12/2019			<0.01		
9/5/2019		<0.01		<0.01 (D)	0.00044 (J)
9/6/2019	0.00078 (J)		<0.01		
3/3/2020	0.00058 (J)	0.00057 (J)		0.00052 (J)	0.00078 (J)
3/5/2020			0.00086 (J)		

Time Series



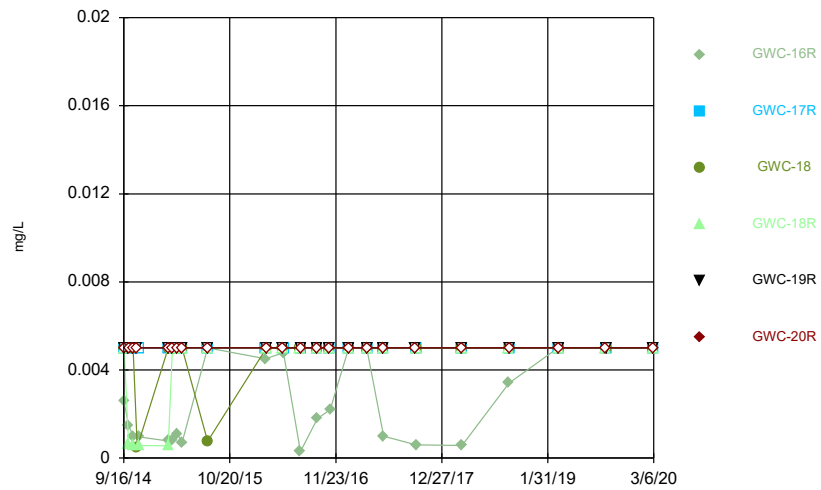
Constituent: Cobalt Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



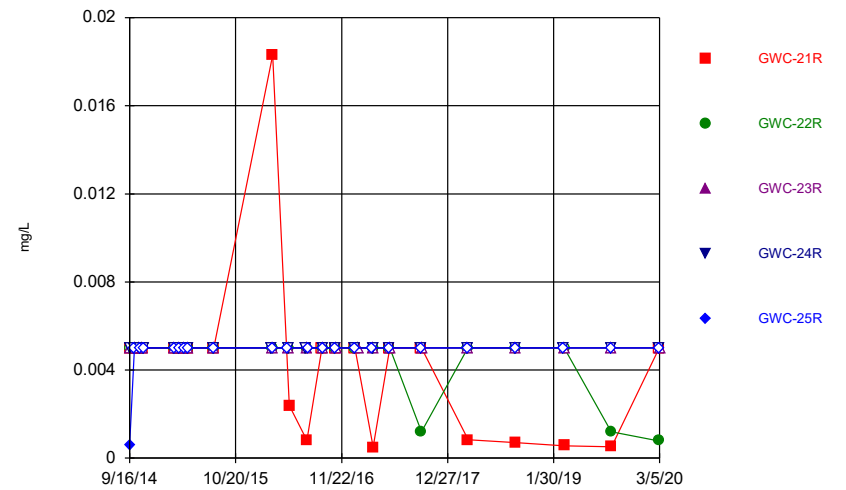
Constituent: Cobalt Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Cobalt Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Cobalt Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.005	0.0039				
9/16/2014			0.00077 (J)	0.0028		
10/3/2014	<0.005	<0.005	0.0013	0.0029		
10/20/2014	<0.005	0.0014	0.001 (J)	0.0022		
11/10/2014	<0.005	<0.005	<0.005	0.0022		
3/2/2015	<0.005	<0.005	<0.005			
3/17/2015	<0.005	<0.005	<0.005	0.0044		
4/5/2015	<0.005	<0.005	<0.005			
4/6/2015				0.002		
4/21/2015	0.00055 (J)	0.0012 (J)				
4/22/2015			<0.005	0.0016		
5/8/2015					<0.005	<0.005
5/17/2015					0.00059 (J)	<0.005
5/25/2015					<0.005	<0.005
6/8/2015					<0.005	<0.005
6/18/2015					<0.005	<0.005
6/24/2015					<0.005	<0.005
6/30/2015					<0.005	<0.005
7/6/2015					<0.005	<0.005
7/28/2015	<0.005	0.0012 (J)	<0.005	0.0017		
8/12/2015					<0.005	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	0.00202 (J)			
3/2/2016				<0.01 (o)		
5/2/2016	<0.005	<0.005				
5/3/2016			<0.005	<0.01 (o)		
5/4/2016					<0.005 (D)	<0.005
7/6/2016		<0.005				
7/7/2016	<0.005			0.0015 (J)	<0.005 (D)	
7/8/2016			0.0004 (J)			<0.005
9/7/2016	<0.005	<0.005	0.0009 (J)			
9/8/2016				0.0018 (J)	<0.005 (D)	<0.005
10/25/2016	<0.005	<0.005	0.0022 (J)	0.0019 (J)		
10/26/2016					<0.005 (D)	<0.005
1/5/2017	<0.005	<0.005				
1/6/2017			0.0011 (J)		<0.005 (D)	<0.005
2/9/2017				0.0017 (J)		
3/14/2017		<0.005	0.0009 (J)			
3/15/2017	<0.005				<0.005 (D)	<0.005
3/23/2017				0.0018 (J)		
5/16/2017		<0.005	<0.005			
5/17/2017	<0.005			0.0016 (J)		<0.005
5/18/2017					<0.005 (D)	
7/19/2017					<0.005 (D)	
9/15/2017	<0.005	<0.005	<0.005			<0.005
9/19/2017				0.0012 (J)	<0.005 (D)	
3/12/2018	<0.005	<0.005	<0.005			
3/13/2018				0.0013 (J)	<0.005	<0.005
9/6/2018	<0.005	<0.005	<0.005	0.00094 (J)		<0.005
9/7/2018					<0.005	
3/6/2019	<0.005		<0.005			
3/7/2019		<0.005		0.00087 (J)		<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.005	
9/4/2019	<0.005	<0.005	<0.005	0.000935 (JD)	<0.005	<0.005
3/2/2020	<0.005	<0.005	<0.005	0.0011 (J)		<0.005
3/3/2020					<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.005				
5/9/2015	<0.005		0.00057 (J)	<0.005	<0.005	<0.005
5/17/2015		<0.005				
5/18/2015	<0.005		0.00055 (J)	0.00071 (J)	0.001 (J)	
5/19/2015						<0.005
5/25/2015	<0.005	<0.005	<0.005			
5/26/2015				0.00067 (J)	0.00052 (J)	<0.005
6/8/2015	<0.005	<0.005				
6/9/2015			<0.005	0.001 (J)	0.00087 (J)	<0.005
6/17/2015	<0.005		<0.005	0.00093 (J)	<0.005	<0.005
6/18/2015		<0.005				
6/24/2015	<0.005	<0.005				
6/25/2015			<0.005	0.00059 (J)	<0.005	<0.005
6/30/2015	<0.005	<0.005				
7/1/2015			<0.005	0.00059 (J)	0.0006 (J)	<0.005
7/6/2015	<0.005	<0.005				
7/7/2015			<0.005	0.00091 (J)	<0.005	<0.005
8/12/2015	<0.005	<0.005	<0.005			
8/13/2015				0.0006 (J)	<0.005	<0.005
3/2/2016	<0.005	<0.005	<0.005	0.00715 (J)		
3/3/2016					<0.005	<0.005
5/3/2016	<0.005	<0.005		0.00349 (J)	<0.005	
5/4/2016			<0.005			
5/9/2016						<0.005
7/8/2016	<0.005		<0.005			
7/11/2016		<0.005		0.0007 (J)	0.001 (J)	<0.005
9/7/2016		<0.005				
9/8/2016	<0.005		<0.005			
9/9/2016				<0.005	0.0006 (J)	<0.005
10/26/2016	<0.005		<0.005	<0.005		<0.005
10/27/2016		<0.005			<0.005	
1/6/2017		<0.005				
1/9/2017	<0.005		<0.005	<0.005	<0.005	<0.005
3/15/2017			<0.005			<0.005
3/16/2017	<0.005	<0.005		0.0006 (J)	<0.005	
5/18/2017			<0.005	<0.005	<0.005	<0.005
5/19/2017	<0.005	<0.005				
9/15/2017			<0.005	<0.005		<0.005
9/18/2017					<0.005	
9/19/2017	<0.005	<0.005				
3/12/2018				0.0034 (J)	<0.005	
3/13/2018	<0.005	<0.005	<0.005			<0.005
9/6/2018			<0.005			
9/7/2018				<0.005	<0.005	<0.005
9/11/2018	<0.005	<0.005				
3/7/2019			<0.005		<0.005	<0.005
3/8/2019	<0.005			0.0044 (J)		
3/12/2019		<0.005				
9/4/2019						<0.005
9/5/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
3/3/2020			<0.005	0.0048 (J)		
3/4/2020	<0.005	<0.005			<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0026					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	0.0015	<0.005	<0.005	0.00063 (J)	<0.005	
10/5/2014						<0.005
10/21/2014	0.00099 (J)	<0.005	<0.005	0.00058 (J)	<0.005	
10/22/2014						<0.005
11/5/2014			0.0005 (J)		<0.005	<0.005
11/11/2014	0.00097 (J)	<0.005		0.00058 (J)		
3/3/2015	0.00078 (J)	<0.005	<0.005	0.00056 (J)	<0.005	
3/4/2015						<0.005
3/18/2015	0.00081 (J)	<0.005	<0.005	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	0.0011 (J)	<0.005				
4/7/2015			<0.005	<0.005	<0.005	<0.005
4/23/2015	0.0007 (J)	<0.005	<0.005	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	<0.005	<0.005	0.00076 (J)	<0.005	<0.005	
7/30/2015						<0.005
3/3/2016	0.00451 (JD)					
3/4/2016		<0.005				
3/7/2016			<0.005	<0.005	<0.005	
3/8/2016						<0.005
5/5/2016			<0.005	<0.005		
5/9/2016					<0.005	<0.005
5/10/2016	0.00478 (J)	<0.005				
7/13/2016	0.0003 (J)		<0.005	<0.005		
7/14/2016		<0.005			<0.005	<0.005
9/12/2016				<0.005	<0.005	<0.005
9/13/2016			<0.005			
9/14/2016		<0.005				
9/15/2016	0.0018 (J)					
10/31/2016			<0.005		<0.005	<0.005
11/1/2016		<0.005		<0.005		
11/2/2016	0.0022 (J)					
1/11/2017	<0.005	<0.005		<0.005	<0.005	
1/12/2017			<0.005			<0.005
3/20/2017	<0.005			<0.005		
3/21/2017		<0.005			<0.005	
3/22/2017						<0.005
3/23/2017			<0.005			
5/22/2017				<0.005	<0.005	<0.005
5/23/2017	0.001 (J)	<0.005	<0.005			
9/19/2017						<0.005
9/20/2017					<0.005	
9/21/2017	0.0006 (J)			<0.005		
9/22/2017		<0.005				
9/25/2017			<0.005			
3/14/2018	0.00058 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/7/2018	0.0034 (J)			<0.005		
9/10/2018					<0.005	<0.005
9/11/2018		<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.005					
3/12/2019		<0.005	<0.005	<0.005	<0.005	<0.005
9/6/2019				<0.005		<0.005 (D)
9/9/2019	<0.005		<0.005		<0.005	
9/10/2019		<0.005				
3/4/2020	<0.005				<0.005	
3/5/2020		<0.005		<0.005		<0.005
3/6/2020			<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

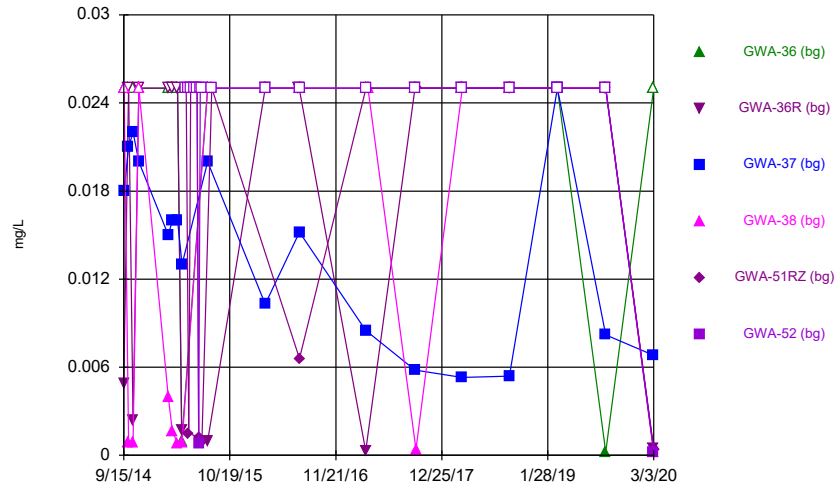
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.005	0.0006 (J)
9/18/2014	<0.005	<0.005	<0.005		
10/4/2014				<0.005	<0.005
10/5/2014	<0.005	<0.005	<0.005		
10/22/2014	<0.005	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	<0.005	<0.005	<0.005		
11/10/2014				<0.005	<0.005
3/4/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2015	<0.005	<0.005			
3/20/2015			<0.005	<0.005	<0.005
4/8/2015	<0.005	<0.005	<0.005	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	<0.005	<0.005
4/24/2015	<0.005	<0.005			
7/30/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/4/2016				<0.005	
3/7/2016		<0.005			
3/8/2016	0.0183 (J)				<0.005
3/9/2016			<0.005		
5/4/2016					<0.005
5/5/2016		<0.005		<0.005	
5/6/2016			<0.005		
5/9/2016	0.00239 (J)				
7/12/2016				<0.005	
7/14/2016		<0.005			
7/15/2016	0.0008 (J)		<0.005		
7/18/2016					<0.005
9/9/2016	<0.005				
9/12/2016		<0.005			
9/13/2016				<0.005	<0.005
9/14/2016			<0.005		
10/27/2016	<0.005	<0.005		<0.005	<0.005
11/1/2016			<0.005		
1/12/2017	<0.005				
1/13/2017		<0.005		<0.005	<0.005
1/25/2017			<0.005		
3/16/2017					<0.005
3/20/2017		<0.005		<0.005	
3/21/2017	0.0005 (J)				
3/22/2017			<0.005		
5/19/2017				<0.005	<0.005
5/23/2017	<0.005	<0.005			
5/24/2017			<0.005		
9/19/2017	<0.005	0.0012 (J)		<0.005	<0.005
9/21/2017			<0.005		
3/13/2018		<0.005		<0.005	<0.005
3/14/2018	0.00083 (J)		<0.005		
9/7/2018		<0.005			
9/10/2018	0.00071 (J)				
9/11/2018			<0.005	<0.005	<0.005
3/8/2019				<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

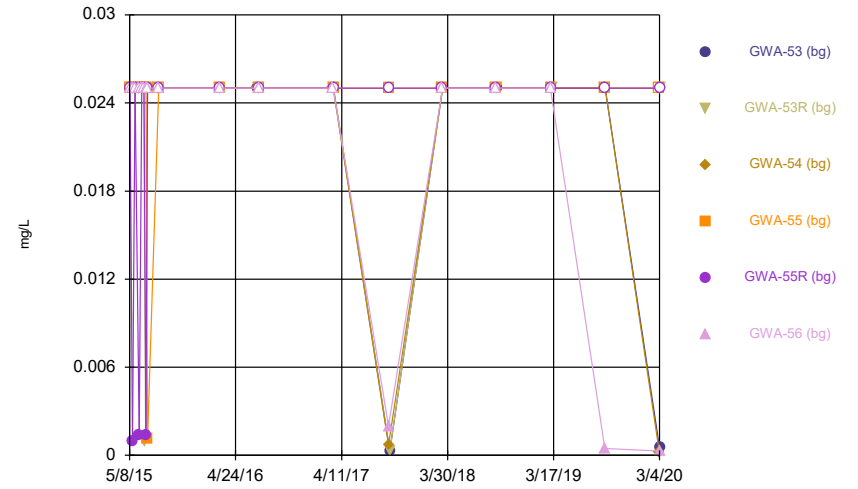
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	0.00056 (J)	<0.005			
3/12/2019			<0.005		
9/5/2019		0.0012 (J)		<0.005 (D)	<0.005
9/6/2019	0.00051 (J)		<0.005		
3/3/2020	<0.005	0.00078 (J)		<0.005	<0.005
3/5/2020			<0.005		

Time Series



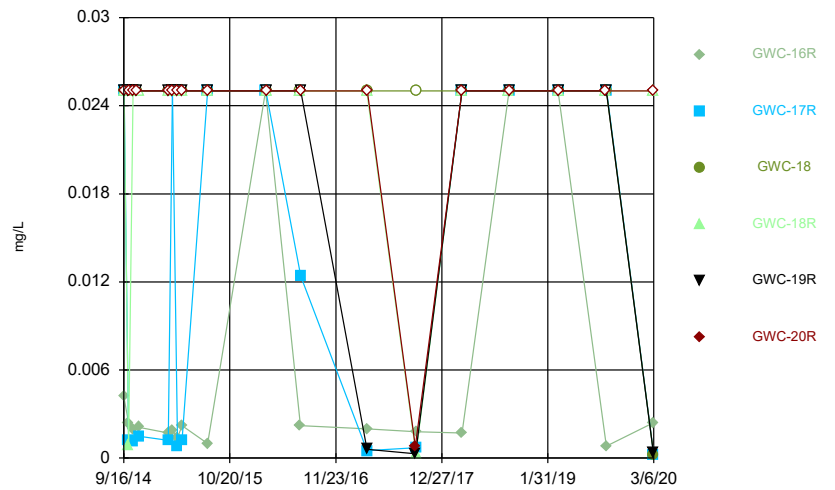
Constituent: Copper Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



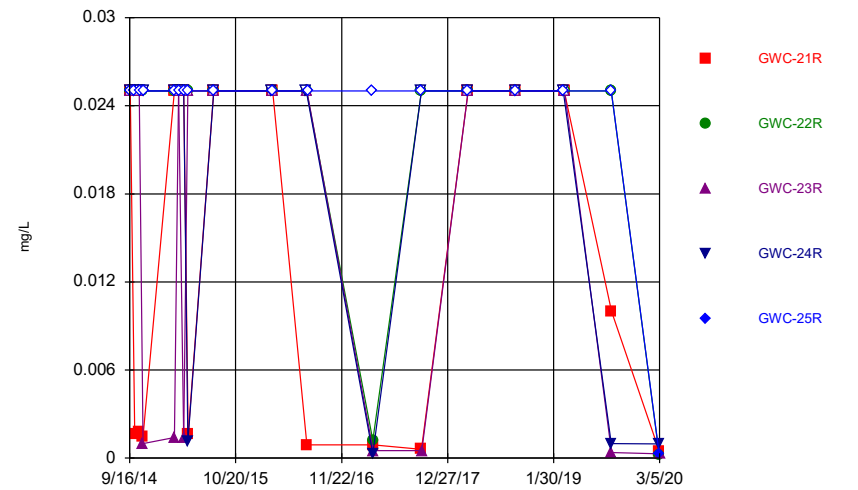
Constituent: Copper Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Copper Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Copper Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Copper (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.025	0.0049 (J)				
9/16/2014			0.018	<0.025		
10/3/2014	<0.025	<0.025	0.021	0.00089 (J)		
10/20/2014	<0.025	0.0024 (J)	0.022	0.00087 (J)		
11/10/2014	<0.025	<0.025	0.02	<0.025		
3/2/2015	<0.025	<0.025	0.015	0.004 (J)		
3/17/2015	<0.025	<0.025	0.016	0.0016 (J)		
4/5/2015	<0.025	<0.025	0.016			
4/6/2015				0.00083 (J)		
4/21/2015	0.00095 (J)	0.0017 (J)				
4/22/2015			0.013	0.00085 (J)		
5/8/2015					<0.025	<0.025
5/17/2015					0.0015 (J)	<0.025
5/25/2015					<0.025	<0.025
6/8/2015					<0.025	<0.025
6/18/2015					<0.025	<0.025
6/24/2015					0.0012 (J)	0.00082 (J)
6/30/2015					0.00096 (J)	<0.025
7/6/2015					0.00091 (J)	<0.025
7/28/2015	<0.025	0.00097 (J)	0.02	<0.025		
8/12/2015					<0.025	<0.025
2/29/2016						<0.025
3/1/2016	<0.025	<0.025	0.0103 (J)			
3/2/2016				<0.025		
7/6/2016		<0.025				
7/7/2016	<0.025			<0.025	0.0066 (JD)	
7/8/2016			0.0152 (J)			<0.025
3/14/2017		0.0003 (J)	0.0085 (J)			
3/15/2017	<0.025				<0.025 (D)	<0.025
3/23/2017				<0.025		
9/15/2017	<0.025	<0.025	0.0058 (J)			<0.025
9/19/2017				0.0004 (J)	<0.025 (D)	
3/12/2018	<0.025	<0.025	0.0053 (J)			
3/13/2018				<0.025	<0.025	<0.025
9/6/2018	<0.025	<0.025	0.0054 (J)	<0.025		<0.025
9/7/2018					<0.025	
3/6/2019	<0.025		<0.025			
3/7/2019		<0.025		<0.025		<0.025
3/8/2019					<0.025	
9/4/2019	0.00023 (J)	<0.025	0.0082 (J)	<0.025 (D)	<0.025	<0.025
3/2/2020	<0.025	0.00043 (J)	0.0068 (J)	0.00019 (J)		0.00024 (J)
3/3/2020					0.00041 (J)	

Time Series

Constituent: Copper (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.025				
5/9/2015	<0.025		<0.025	<0.025	<0.025	<0.025
5/17/2015		<0.025				
5/18/2015	<0.025		<0.025	<0.025	0.00093 (J)	
5/19/2015						<0.025
5/25/2015	<0.025	<0.025	<0.025			
5/26/2015				<0.025	<0.025	<0.025
6/8/2015	<0.025	<0.025				
6/9/2015			<0.025	<0.025	0.0014 (J)	<0.025
6/17/2015	<0.025		<0.025	<0.025	<0.025	<0.025
6/18/2015		<0.025				
6/24/2015	<0.025	<0.025				
6/25/2015			<0.025	<0.025	<0.025	<0.025
6/30/2015	<0.025	0.00093 (J)				
7/1/2015			<0.025	<0.025	0.0014 (J)	<0.025
7/6/2015	<0.025	<0.025				
7/7/2015			<0.025	0.0011 (J)	<0.025	<0.025
8/12/2015	<0.025	<0.025	<0.025			
8/13/2015				<0.025	<0.025	<0.025
3/2/2016	<0.025	<0.025	<0.025	<0.025		
3/3/2016					<0.025	<0.025
7/8/2016	<0.025		<0.025			
7/11/2016		<0.025		<0.025	<0.025	<0.025
3/15/2017			<0.025			<0.025
3/16/2017	<0.025	<0.025		<0.025	<0.025	
9/15/2017			0.0007 (J)	<0.025		0.002 (J)
9/18/2017					<0.025	
9/19/2017	0.0003 (J)	0.0003 (J)				
3/12/2018				<0.025	<0.025	
3/13/2018	<0.025	<0.025	<0.025			<0.025
9/6/2018			<0.025			
9/7/2018				<0.025	<0.025	<0.025
9/11/2018	<0.025	<0.025				
3/7/2019			<0.025		<0.025	<0.025
3/8/2019	<0.025			<0.025		
3/12/2019		<0.025				
9/4/2019						0.00047 (J)
9/5/2019	<0.025	<0.025	<0.025	<0.025	<0.025	
3/3/2020			0.00025 (J)	<0.025		
3/4/2020	0.00053 (J)	<0.025			<0.025	0.0003 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

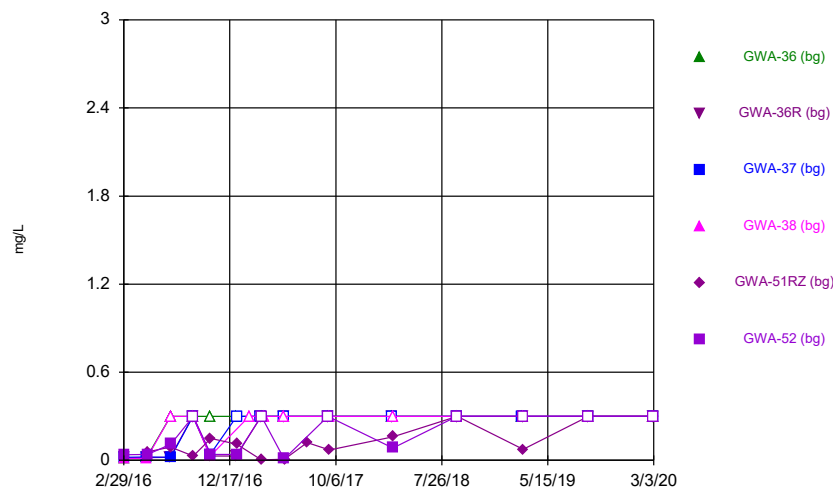
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0042 (J)					
9/17/2014		<0.025	<0.025	<0.025	<0.025	
9/18/2014						<0.025
10/4/2014	0.0024 (J)	0.0012 (J)	<0.025	0.00086 (J)	<0.025	
10/5/2014						<0.025
10/21/2014	0.002 (J)	0.0011 (J)	<0.025	<0.025	<0.025	
10/22/2014						<0.025
11/5/2014			<0.025		<0.025	<0.025
11/11/2014	0.0021 (J)	0.0015 (J)		<0.025		
3/3/2015	0.0017 (J)	0.0012 (J)	<0.025	<0.025	<0.025	
3/4/2015						<0.025
3/18/2015	0.0019 (J)	<0.025	<0.025	<0.025		
3/19/2015					<0.025	<0.025
4/6/2015	0.0014 (J)	0.00083 (J)				
4/7/2015			<0.025	<0.025	<0.025	<0.025
4/23/2015	0.0022 (J)	0.0012 (J)	<0.025	<0.025		
4/24/2015					<0.025	<0.025
7/29/2015	0.00098 (J)	<0.025	<0.025	<0.025	<0.025	
7/30/2015						<0.025
3/3/2016	<0.025 (D)					
3/4/2016		<0.025				
3/7/2016			<0.025	<0.025	<0.025	
3/8/2016						<0.025
7/13/2016	0.0022 (J)		<0.025	<0.025		
7/14/2016		0.0124 (J)			<0.025	<0.025
3/20/2017	0.002 (J)			<0.025		
3/21/2017		0.0005 (J)			0.0006 (J)	
3/22/2017						<0.025
3/23/2017			<0.025			
9/19/2017						0.0008 (J)
9/20/2017					0.0003 (J)	
9/21/2017	0.0018 (J)			0.0003 (J)		
9/22/2017		0.0007 (J)				
9/25/2017			<0.025			
3/14/2018	0.0017 (J)	<0.025	<0.025	<0.025	<0.025	<0.025
9/7/2018	<0.025			<0.025		
9/10/2018					<0.025	<0.025
9/11/2018		<0.025	<0.025			
3/11/2019	<0.025					
3/12/2019		<0.025	<0.025	<0.025	<0.025	<0.025
9/6/2019				<0.025		<0.025 (D)
9/9/2019	0.00082 (J)		<0.025		<0.025	
9/10/2019		<0.025				
3/4/2020	0.0024 (J)				0.00036 (J)	
3/5/2020		0.00023 (J)		<0.025		<0.025
3/6/2020			0.00023 (J)			

Time Series

Constituent: Copper (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

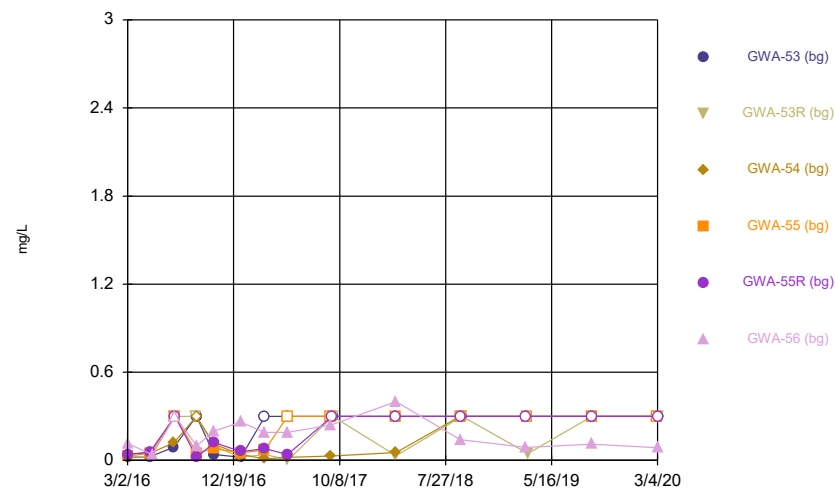
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.025	<0.025
9/18/2014	<0.025	<0.025	<0.025		
10/4/2014				<0.025	<0.025
10/5/2014	0.0016 (J)	<0.025	<0.025		
10/22/2014	0.0018 (J)	<0.025	<0.025		
10/23/2014				<0.025	<0.025
11/5/2014	0.0015 (J)	<0.025	0.001 (J)		
11/10/2014				<0.025	<0.025
3/4/2015	<0.025	<0.025	0.0014 (J)	<0.025	<0.025
3/19/2015	<0.025	<0.025			
3/20/2015			<0.025	<0.025	<0.025
4/8/2015	<0.025	<0.025	0.0014 (J)	<0.025	
4/9/2015					<0.025
4/23/2015			<0.025	0.0011 (J)	<0.025
4/24/2015	0.0016 (J)	<0.025			
7/30/2015	<0.025	<0.025	<0.025	<0.025	<0.025
3/4/2016				<0.025	
3/7/2016		<0.025			
3/8/2016	<0.025				<0.025
3/9/2016			<0.025		
7/12/2016				<0.025	
7/14/2016		<0.025			
7/15/2016	0.0009 (J)		<0.025		
7/18/2016					<0.025
3/16/2017					<0.025
3/20/2017		0.0012 (J)		0.0003 (J)	
3/21/2017	0.0009 (J)				
3/22/2017			0.0005 (J)		
9/19/2017	0.0006 (J)	<0.025		<0.025	<0.025
9/21/2017			0.0005 (J)		
3/13/2018		<0.025		<0.025	<0.025
3/14/2018	<0.025		<0.025		
9/7/2018		<0.025			
9/10/2018	<0.025				
9/11/2018			<0.025	<0.025	<0.025
3/8/2019				<0.025	<0.025
3/11/2019	<0.025	<0.025			
3/12/2019			<0.025		
9/5/2019		<0.025		0.001 (JD)	<0.025
9/6/2019	0.01 (J)		0.00037 (J)		
3/3/2020	0.00049 (J)	0.00022 (J)		0.00097 (J)	0.00027 (J)
3/5/2020			0.0003 (J)		

Time Series



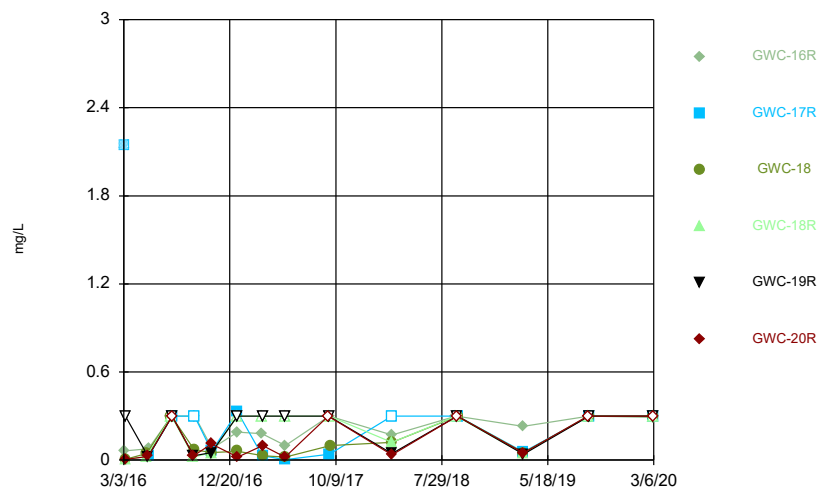
Constituent: Fluoride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



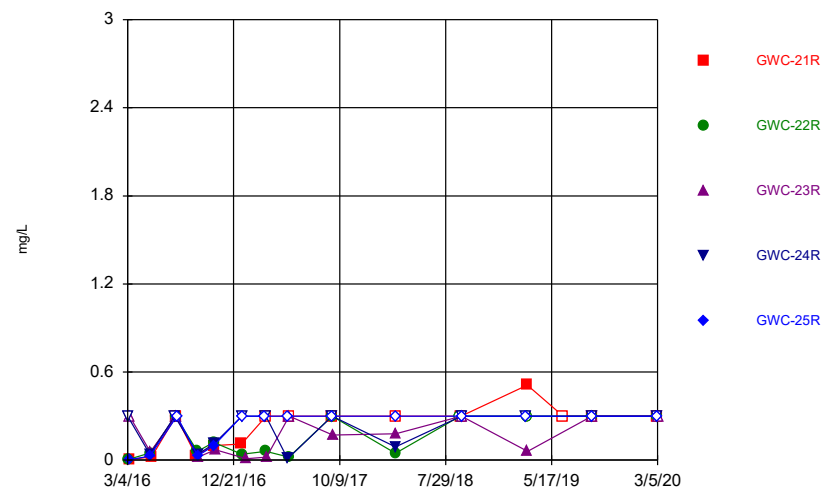
Constituent: Fluoride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Fluoride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Fluoride Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						0.0375 (J)
3/1/2016	0.0153 (J)	0.0172 (J)	0.0215 (J)			
3/2/2016				0.0121 (J)		
5/2/2016	0.018 (J)	0.018 (J)				
5/3/2016			0.023 (J)	0.013 (J)		
5/4/2016					0.057 (JD)	0.04 (J)
7/6/2016		0.02 (J)				
7/7/2016	<0.3			<0.3	0.09 (JD)	
7/8/2016			0.02 (J)			0.11 (J)
9/7/2016	<0.3	<0.3	<0.3			
9/8/2016				<0.3	0.03 (JD)	<0.3
10/25/2016	<0.3	0.03 (J)	0.04 (J)	0.03 (J)		
10/26/2016					0.15 (JD)	0.04 (J)
1/5/2017	<0.3	0.03 (J)				
1/6/2017			<0.3		0.11 (JD)	0.04 (J)
2/9/2017				<0.3		
3/14/2017		<0.3	<0.3			
3/15/2017	<0.3				0.004 (JD)	<0.3
3/23/2017				<0.3		
5/16/2017		<0.3	<0.3			
5/17/2017	<0.3			<0.3		0.01 (J)
5/18/2017					0.007 (JD)	
7/19/2017					0.12 (JD)	
9/15/2017	<0.3	<0.3	<0.3			<0.3
9/19/2017				<0.3	0.07 (JD)	
3/12/2018	<0.3	<0.3	<0.3			
3/13/2018				<0.3	0.16 (J)	0.084 (J)
9/6/2018	<0.3	<0.3	<0.3	<0.3		<0.3
9/7/2018					<0.3	
3/6/2019	<0.3		<0.3			
3/7/2019		<0.3		<0.3		<0.3
3/8/2019					0.075 (J)	
9/4/2019	<0.3	<0.3	<0.3	<0.3 (D)	<0.3	<0.3
3/2/2020	<0.3	<0.3	<0.3	<0.3		<0.3
3/3/2020					<0.3	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	0.0202 (J)	0.0238 (J)	0.0427 (J)	0.0293 (J)		
3/3/2016					0.0392 (J)	0.1143 (J)
5/3/2016	0.025 (J)	0.027 (J)		0.049 (J)	0.058 (J)	
5/4/2016			0.048 (J)			
5/9/2016						0.0383 (J)
7/8/2016	0.09 (J)		0.12 (J)			
7/11/2016		<0.3		<0.3	<0.3	<0.3
9/7/2016		<0.3				
9/8/2016	<0.3		<0.3			
9/9/2016				0.05 (J)	0.02 (J)	0.1 (J)
10/26/2016	0.04 (J)		0.11 (J)	0.08 (J)		0.2 (J)
10/27/2016		0.1 (J)			0.12 (J)	
1/6/2017		0.02 (J)				
1/9/2017	0.02 (J)		0.04 (J)	0.05 (J)	0.06 (J)	0.26 (J)
3/15/2017			0.009 (J)			0.19 (J)
3/16/2017	<0.3	0.04 (J)		0.07 (J)	0.08 (J)	
5/18/2017			0.02 (J)	<0.3	0.04 (J)	0.19 (J)
5/19/2017	<0.3	0.004 (J)				
9/15/2017			0.03 (J)	<0.3		0.24 (J)
9/18/2017				<0.3		
9/19/2017	<0.3	<0.3				
3/12/2018				<0.3	<0.3	
3/13/2018	<0.3	0.032 (J)	0.054 (J)			0.4
9/6/2018			<0.3			
9/7/2018				<0.3	<0.3	0.14 (J)
9/11/2018	<0.3	<0.3				
3/7/2019			<0.3		<0.3	0.089 (J)
3/8/2019	<0.3			<0.3		
3/12/2019		0.046 (J)				
9/4/2019						0.11 (J)
9/5/2019	<0.3	<0.3	<0.3	<0.3	<0.3	
3/3/2020			<0.3	<0.3		
3/4/2020	<0.3	<0.3			<0.3	0.086 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

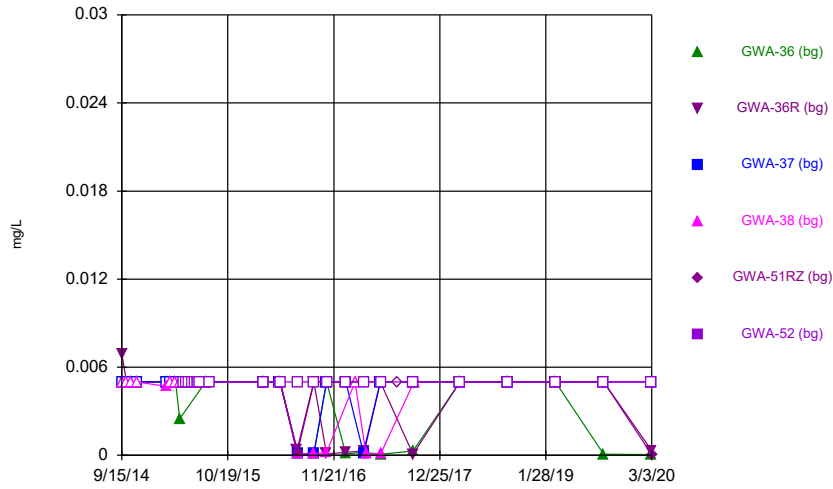
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	0.06259 (JD)					
3/4/2016		2.1421 (O)				
3/7/2016			0.00623 (J)	0.00232 (J)	<0.3	
3/8/2016						0.00425 (J)
5/5/2016			0.045 (J)	0.025 (J)		
5/9/2016					0.0246 (J)	0.0259 (J)
5/10/2016	0.0767 (J)	0.0258 (J)				
7/13/2016	<0.3		<0.3	<0.3		
7/14/2016		<0.3			<0.3	<0.3
9/12/2016				0.02 (J)	0.03 (J)	0.03 (J)
9/13/2016			0.07 (J)			
9/14/2016		<0.3				
9/15/2016	<0.3					
10/31/2016			0.05 (J)		0.05 (J)	0.11 (J)
11/1/2016		0.06 (J)		0.05 (J)		
11/2/2016	0.08 (J)					
1/11/2017	0.19 (J)	0.33		<0.3	<0.3	
1/12/2017			0.06 (J)			0.02 (J)
3/20/2017	0.18 (J)			<0.3		
3/21/2017		0.03 (J)			<0.3	
3/22/2017						0.1 (J)
3/23/2017			0.03 (J)			
5/22/2017				<0.3	<0.3	0.02 (J)
5/23/2017	0.1 (J)	0.004 (J)	0.02 (J)			
9/19/2017						<0.3
9/20/2017					<0.3	
9/21/2017	<0.3			<0.3		
9/22/2017		0.04 (J)				
9/25/2017			0.1 (J)			
3/14/2018	0.17 (J)	<0.3	0.12 (J)	0.12 (J)	0.045 (J)	0.035 (J)
9/7/2018	<0.3			<0.3		
9/10/2018					<0.3	<0.3
9/11/2018		<0.3	<0.3			
3/11/2019	0.23 (J)					
3/12/2019		0.056 (J)	0.05 (J)	0.042 (J)	0.04 (J)	0.048 (J)
9/6/2019				<0.3		<0.3 (D)
9/9/2019	<0.3		<0.3		<0.3	
9/10/2019		<0.3				
3/4/2020	0.29 (J)				<0.3	
3/5/2020		<0.3		<0.3		<0.3
3/6/2020			<0.3			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

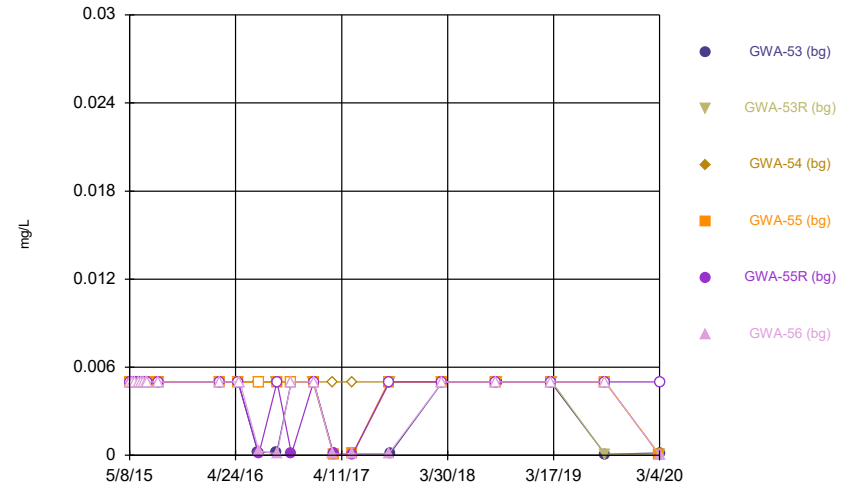
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				<0.3	
3/7/2016		0.00526 (J)			
3/8/2016	0.00287 (J)				0.00246 (J)
3/9/2016			<0.3		
5/4/2016					0.027 (J)
5/5/2016		0.049 (J)		0.039 (J)	
5/6/2016			0.056 (J)		
5/9/2016	0.0222 (J)				
7/12/2016				<0.3	
7/14/2016		<0.3			
7/15/2016	<0.3		<0.3		
7/18/2016					<0.3
9/9/2016	0.03 (J)				
9/12/2016		0.06 (J)			
9/13/2016				0.04 (J)	0.03 (J)
9/14/2016			0.02 (J)		
10/27/2016	0.1 (J)	0.12 (J)		0.11 (J)	0.1 (J)
11/1/2016			0.07 (J)		
1/12/2017	0.11 (J)				
1/13/2017		0.04 (J)		<0.3	<0.3
1/25/2017			0.01 (J)		
3/16/2017					<0.3
3/20/2017		0.06 (J)		<0.3	
3/21/2017	<0.3				
3/22/2017			0.02 (J)		
5/19/2017				0.01 (J)	<0.3
5/23/2017	<0.3	0.02 (J)			
5/24/2017			<0.3		
9/19/2017	<0.3	<0.3		<0.3	<0.3
9/21/2017			0.17 (J)		
3/13/2018		0.046 (J)		0.091 (J)	<0.3
3/14/2018	<0.3		0.18 (J)		
9/7/2018		<0.3			
9/10/2018	<0.3				
9/11/2018			<0.3	<0.3	<0.3
3/8/2019				<0.3	<0.3
3/11/2019	0.51	<0.3			
3/12/2019			0.06 (J)		
6/18/2019	<0.3				
9/5/2019		<0.3		<0.3 (D)	<0.3
9/6/2019	<0.3		<0.3		
3/3/2020	<0.3	<0.3		<0.3	<0.3
3/5/2020			<0.3		

Time Series



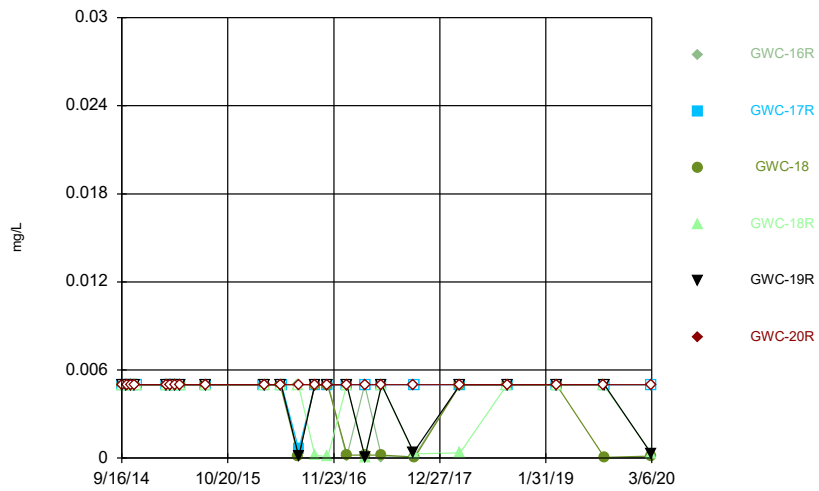
Constituent: Lead Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



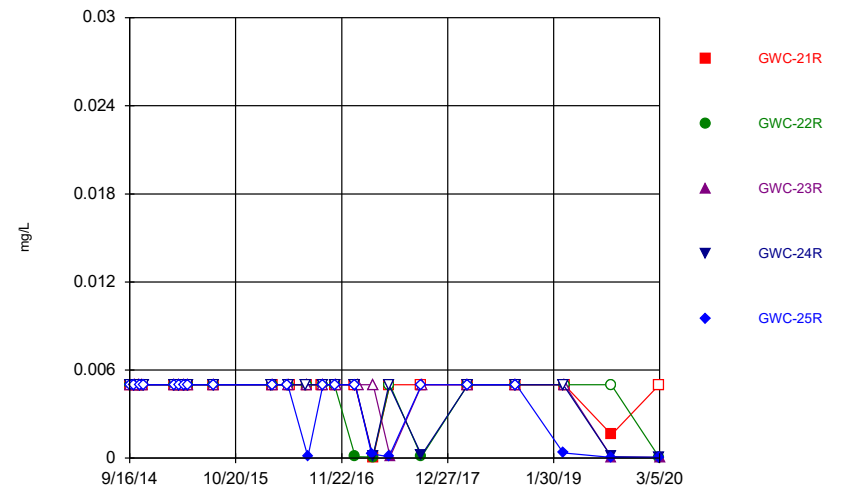
Constituent: Lead Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Lead Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Lead Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.005	0.0069 (J)				
9/16/2014			<0.005	<0.005		
10/3/2014	<0.005	<0.005	<0.005	<0.005		
10/20/2014	<0.005	<0.005	<0.005	<0.005		
11/10/2014	<0.005	<0.005	<0.005	<0.005		
3/2/2015	<0.005	<0.005	<0.005	0.0047 (J)		
3/17/2015	<0.005	<0.005	<0.005	<0.005		
4/5/2015	<0.005	<0.005	<0.005			
4/6/2015				<0.005		
4/21/2015	0.0025 (J)	<0.005				
4/22/2015			<0.005	<0.005		
5/8/2015					<0.005	<0.005
5/17/2015					<0.005	<0.005
5/25/2015					<0.005	<0.005
6/8/2015					<0.005	<0.005
6/18/2015					<0.005	<0.005
6/24/2015					<0.005	<0.005
6/30/2015					<0.005	<0.005
7/6/2015					<0.005	<0.005
7/28/2015	<0.005	<0.005	<0.005	<0.005		
8/12/2015					<0.005	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	<0.005			
3/2/2016				<0.005		
5/2/2016	<0.005	<0.005				
5/3/2016			<0.005	<0.005		
5/4/2016					<0.005 (D)	<0.005
7/6/2016		0.0004 (J)				
7/7/2016	0.0001 (J)			0.0001 (J)	0.0002 (JD)	
7/8/2016			0.0001 (J)			<0.005
9/7/2016	0.0001 (J)	<0.005	0.0001 (J)			
9/8/2016				0.0001 (J)	<0.005 (D)	<0.005
10/25/2016	<0.005	0.0001 (J)	<0.005	0.0002 (J)		
10/26/2016					<0.005 (D)	<0.005
1/5/2017	0.0001 (J)	0.0002 (J)				
1/6/2017			<0.005		<0.005 (D)	<0.005
2/9/2017				<0.005		
3/14/2017		0.0003 (J)	0.0001 (J)			
3/15/2017	0.0002 (J)				<0.005 (D)	<0.005
3/23/2017				0.0001 (J)		
5/16/2017		<0.005	<0.005			
5/17/2017	8E-05 (J)			0.0001 (J)		<0.005
5/18/2017					<0.005 (D)	
7/19/2017					<0.005 (D)	
9/15/2017	0.0003 (J)	8E-05 (J)	<0.005			<0.005
9/19/2017				<0.005	<0.005 (D)	
3/12/2018	<0.005	<0.005	<0.005			
3/13/2018				<0.005	<0.005	<0.005
9/6/2018	<0.005	<0.005	<0.005	<0.005		<0.005
9/7/2018					<0.005	
3/6/2019	<0.005		<0.005			
3/7/2019		<0.005		<0.005		<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.005	
9/4/2019	7.6E-05 (J)	<0.005	<0.005	<0.005 (D)	<0.005	<0.005
3/2/2020	5.2E-05 (J)	0.00031 (J)	<0.005	<0.005		<0.005
3/3/2020					5.1E-05 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.005				
5/9/2015	<0.005		<0.005	<0.005	<0.005	<0.005
5/17/2015		<0.005				
5/18/2015	<0.005		<0.005	<0.005	<0.005	
5/19/2015						<0.005
5/25/2015	<0.005	<0.005	<0.005			
5/26/2015				<0.005	<0.005	<0.005
6/8/2015	<0.005	<0.005				
6/9/2015			<0.005	<0.005	<0.005	<0.005
6/17/2015	<0.005		<0.005	<0.005	<0.005	<0.005
6/18/2015		<0.005				
6/24/2015	<0.005	<0.005				
6/25/2015			<0.005	<0.005	<0.005	<0.005
6/30/2015	<0.005	<0.005				
7/1/2015			<0.005	<0.005	<0.005	<0.005
7/6/2015	<0.005	<0.005				
7/7/2015			<0.005	<0.005	<0.005	<0.005
8/12/2015	<0.005	<0.005	<0.005			
8/13/2015				<0.005	<0.005	<0.005
3/2/2016	<0.005	<0.005	<0.005	<0.005		
3/3/2016					<0.005	<0.005
5/3/2016	<0.005	<0.005		<0.005	<0.005	
5/4/2016			<0.005			
5/9/2016						<0.005
7/8/2016	0.0002 (J)		<0.005			
7/11/2016		<0.005		<0.005	0.0001 (J)	0.0003 (J)
9/7/2016		<0.005				
9/8/2016	0.0002 (J)		<0.005			
9/9/2016				<0.005	<0.005	0.0001 (J)
10/26/2016	<0.005		<0.005	<0.005		<0.005
10/27/2016		<0.005			0.0001 (J)	
1/6/2017		<0.005				
1/9/2017	<0.005		<0.005	<0.005	<0.005	<0.005
3/15/2017			<0.005			0.0001 (J)
3/16/2017	0.0001 (J)	5E-05 (J)		7E-05 (J)	0.0001 (J)	
5/18/2017			<0.005	0.0001 (J)	7E-05 (J)	0.0001 (J)
5/19/2017	9E-05 (J)	0.0001 (J)				
9/15/2017			<0.005	<0.005		0.0001 (J)
9/18/2017					<0.005	
9/19/2017	0.0001 (J)	<0.005				
3/12/2018				<0.005	<0.005	
3/13/2018	<0.005	<0.005	<0.005			<0.005
9/6/2018			<0.005			
9/7/2018				<0.005	<0.005	<0.005
9/11/2018	<0.005	<0.005				
3/7/2019			<0.005		<0.005	<0.005
3/8/2019	<0.005			<0.005		
3/12/2019		<0.005				
9/4/2019						<0.005
9/5/2019	8E-05 (J)	8.3E-05 (J)	<0.005	<0.005	<0.005	
3/3/2020			4.8E-05 (J)	4.8E-05 (J)		
3/4/2020	0.00016 (J)	6.6E-05 (J)			<0.005	5E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.005					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
10/5/2014						<0.005
10/21/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
10/22/2014						<0.005
11/5/2014			<0.005		<0.005	<0.005
11/11/2014	<0.005	<0.005		<0.005		
3/3/2015	<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2015						<0.005
3/18/2015	<0.005	<0.005	<0.005	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	<0.005	<0.005				
4/7/2015			<0.005	<0.005	<0.005	<0.005
4/23/2015	<0.005	<0.005	<0.005	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	<0.005	<0.005	<0.005	<0.005	<0.005	
7/30/2015						<0.005
3/3/2016	<0.005 (D)					
3/4/2016		<0.005				
3/7/2016			<0.005	<0.005	<0.005	
3/8/2016						<0.005
5/5/2016			<0.005	<0.005		
5/9/2016					<0.005	<0.005
5/10/2016	<0.005	<0.005				
7/13/2016	<0.005		0.0001 (J)	<0.005		
7/14/2016		0.0006 (J)			9E-05 (J)	<0.005
9/12/2016				0.0002 (J)	<0.005	<0.005
9/13/2016			<0.005			
9/14/2016		<0.005				
9/15/2016	<0.005					
10/31/2016			<0.005		<0.005	<0.005
11/1/2016		<0.005		0.0001 (J)		
11/2/2016	<0.005					
1/11/2017	0.0001 (J)	<0.005		<0.005	<0.005	
1/12/2017			0.0002 (J)			<0.005
3/20/2017	<0.005			7E-05 (J)		
3/21/2017		<0.005			7E-05 (J)	
3/22/2017						<0.005
3/23/2017			0.0002 (J)			
5/22/2017				<0.005	<0.005	<0.005
5/23/2017	8E-05 (J)	<0.005	0.0002 (J)			
9/19/2017						<0.005
9/20/2017					0.0004 (J)	
9/21/2017	9E-05 (J)			0.0003 (J)		
9/22/2017		<0.005				
9/25/2017			8E-05 (J)			
3/14/2018	<0.005	<0.005	<0.005	0.00035 (J)	<0.005	<0.005
9/7/2018	<0.005			<0.005		
9/10/2018					<0.005	<0.005
9/11/2018		<0.005	<0.005			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.005					
3/12/2019		<0.005	<0.005	<0.005	<0.005	<0.005
9/6/2019				<0.005		<0.005 (D)
9/9/2019	<0.005		5E-05 (J)		<0.005	
9/10/2019		<0.005				
3/4/2020	<0.005				0.0003 (J)	
3/5/2020		<0.005		0.00032 (J)		<0.005
3/6/2020			0.00013 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

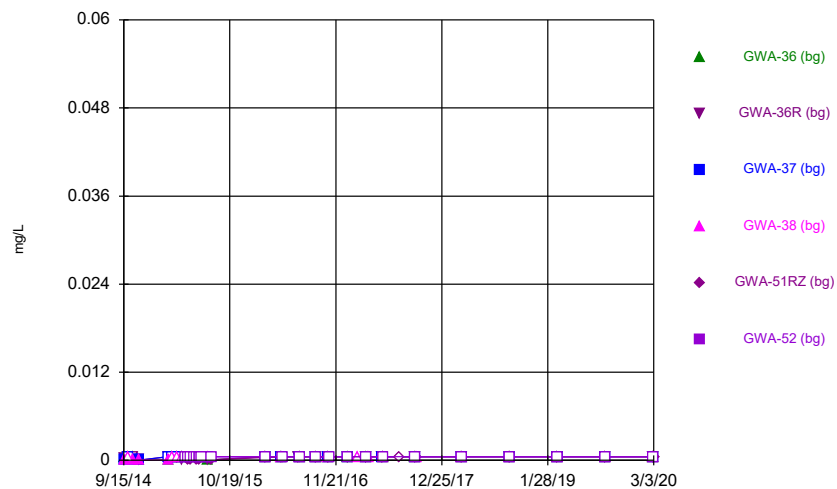
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.005	<0.005
9/18/2014	<0.005	<0.005	<0.005		
10/4/2014				<0.005	<0.005
10/5/2014	<0.005	<0.005	<0.005		
10/22/2014	<0.005	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	<0.005	<0.005	<0.005		
11/10/2014				<0.005	<0.005
3/4/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2015	<0.005	<0.005			
3/20/2015			<0.005	<0.005	<0.005
4/8/2015	<0.005	<0.005	<0.005	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	<0.005	<0.005
4/24/2015	<0.005	<0.005			
7/30/2015	<0.005	<0.005	<0.005	<0.005	<0.005
3/4/2016				<0.005	
3/7/2016		<0.005			
3/8/2016	<0.005				<0.005
3/9/2016			<0.005		
5/4/2016					<0.005
5/5/2016		<0.005		<0.005	
5/6/2016			<0.005		
5/9/2016	<0.005				
7/12/2016				<0.005	
7/14/2016		<0.005			
7/15/2016	<0.005		<0.005		
7/18/2016					0.0001 (J)
9/9/2016	<0.005				
9/12/2016		<0.005			
9/13/2016				<0.005	<0.005
9/14/2016			<0.005		
10/27/2016	<0.005	<0.005		<0.005	<0.005
11/1/2016			<0.005		
1/12/2017	<0.005				
1/13/2017		0.0001 (J)		<0.005	<0.005
1/25/2017			<0.005		
3/16/2017					0.0003 (J)
3/20/2017		7E-05 (J)		0.0001 (J)	
3/21/2017	6E-05 (J)				
3/22/2017			<0.005		
5/19/2017				<0.005	0.0001 (J)
5/23/2017	<0.005	<0.005			
5/24/2017			0.0001 (J)		
9/19/2017	<0.005	0.0001 (J)		0.0002 (J)	<0.005
9/21/2017			<0.005		
3/13/2018		<0.005		<0.005	<0.005
3/14/2018	<0.005		<0.005		
9/7/2018		<0.005			
9/10/2018	<0.005				
9/11/2018			<0.005	<0.005	<0.005
3/8/2019				<0.005	0.00035 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

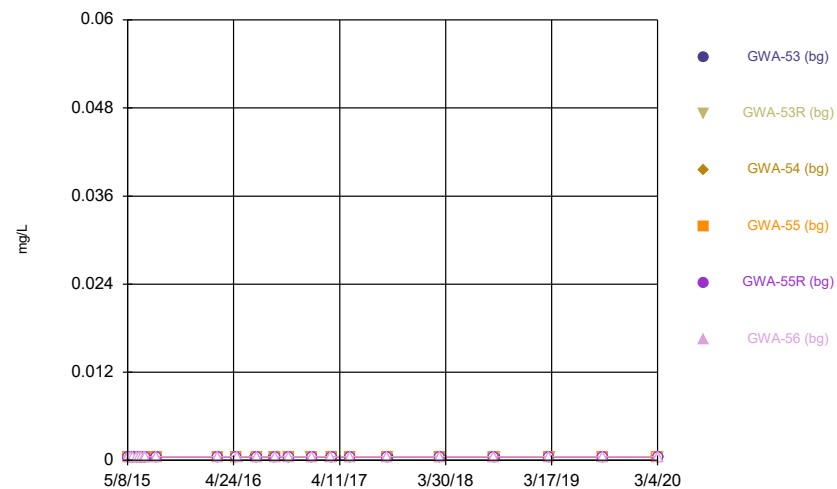
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.005	<0.005			
3/12/2019			<0.005		
9/5/2019		<0.005		9.05E-05 (JD)	6E-05 (J)
9/6/2019	0.0016 (J)		6.8E-05 (J)		
3/3/2020	<0.005	5.9E-05 (J)		5.7E-05 (J)	5.9E-05 (J)
3/5/2020			5.2E-05 (J)		

Time Series



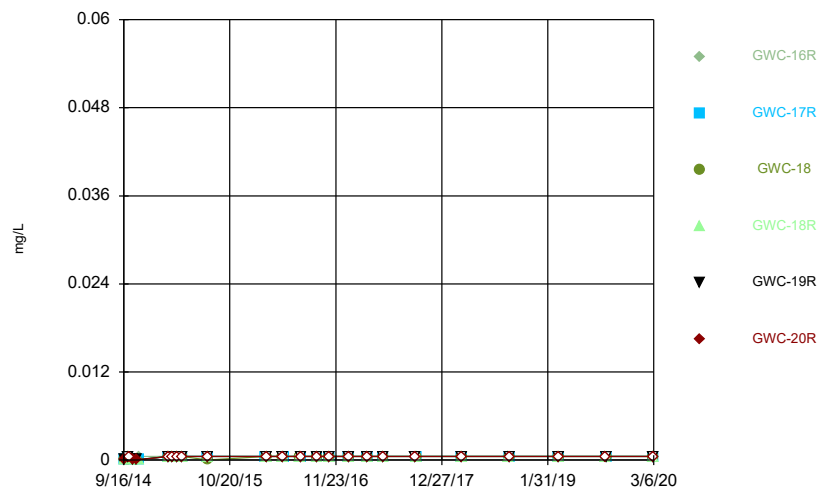
Constituent: Mercury Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



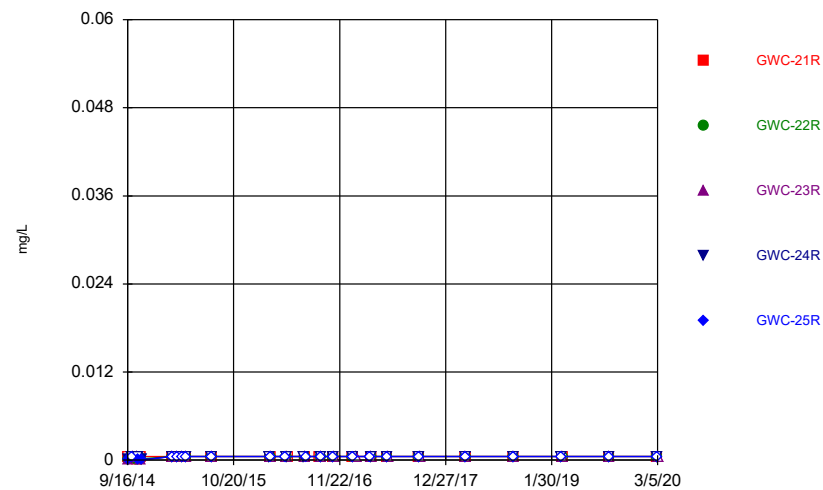
Constituent: Mercury Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Mercury Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Mercury Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.0005	0.000172 (J)				
9/16/2014			4.23E-05 (J)	2.75E-05 (J)		
10/3/2014	<0.0005	<0.0005	<0.0005	<0.0005		
10/20/2014	<0.0005	<0.0005	3.87E-05 (J)	4.07E-05 (J)		
11/10/2014	5.8E-05 (J)	3.84E-05 (J)	3.34E-05 (J)	6.86E-05 (J)		
3/2/2015	2.04E-05 (J)	<0.0005	<0.0005	3.07E-05 (J)		
3/17/2015	<0.0005	<0.0005	<0.0005	<0.0005		
4/5/2015	<0.0005	<0.0005	<0.0005			
4/6/2015				<0.0005		
4/21/2015	<0.0005	2.39E-05 (J)				
4/22/2015			<0.0005	<0.0005		
5/8/2015					<0.0005	<0.0005
5/17/2015					0.000101 (J)	<0.0005
5/25/2015					4.88E-05 (J)	<0.0005
6/8/2015					<0.0005	<0.0005
6/18/2015					4.1E-05 (J)	<0.0005
6/24/2015					8.41E-05 (J)	<0.0005
6/30/2015					<0.0005	<0.0005
7/6/2015					<0.0005	<0.0005
7/28/2015	2.13E-05 (J)	5.2E-05 (J)	<0.0005	<0.0005		
8/12/2015					4.91E-05 (J)	<0.0005
2/29/2016						<0.0005
3/1/2016	<0.0005	<0.0005	<0.0005			
3/2/2016				<0.0005		
5/2/2016	<0.0005	<0.0005				
5/3/2016			<0.0005	<0.0005		
5/4/2016					<0.0005 (D)	<0.0005
7/6/2016		<0.0005				
7/7/2016	<0.0005			<0.0005	<0.0005 (D)	
7/8/2016			<0.0005			<0.0005
9/7/2016	<0.0005	<0.0005	<0.0005			
9/8/2016				<0.0005	<0.0005 (D)	<0.0005
10/25/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/26/2016					<0.0005 (D)	<0.0005
1/5/2017	<0.0005	<0.0005				
1/6/2017			<0.0005		<0.0005 (D)	<0.0005
2/9/2017				<0.0005		
3/14/2017		<0.0005	<0.0005			
3/15/2017	<0.0005				<0.0005 (D)	<0.0005
3/23/2017				<0.0005		
5/16/2017		<0.0005	<0.0005			
5/17/2017	<0.0005			<0.0005		<0.0005
5/18/2017					<0.0005 (D)	
7/19/2017					<0.0005 (D)	
9/15/2017	<0.0005	<0.0005	<0.0005			<0.0005
9/19/2017				<0.0005	<0.0005 (D)	
3/12/2018	<0.0005	<0.0005	<0.0005			
3/13/2018				<0.0005	<0.0005	<0.0005
9/6/2018	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9/7/2018					<0.0005	
3/6/2019	<0.0005		<0.0005			
3/7/2019		<0.0005		<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.0005	
9/4/2019	<0.0005	<0.0005	<0.0005	<0.0005 (D)	<0.0005	<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/3/2020					<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.0005				
5/9/2015	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
5/17/2015		<0.0005				
5/18/2015	<0.0005		<0.0005	<0.0005	<0.0005	
5/19/2015						<0.0005
5/25/2015	<0.0005	<0.0005	<0.0005			
5/26/2015				<0.0005	<0.0005	<0.0005
6/8/2015	<0.0005	<0.0005				
6/9/2015			<0.0005	<0.0005	<0.0005	<0.0005
6/17/2015	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
6/18/2015		<0.0005				
6/24/2015	<0.0005	<0.0005				
6/25/2015			<0.0005	<0.0005	<0.0005	<0.0005
6/30/2015	<0.0005	<0.0005				
7/1/2015			<0.0005	<0.0005	<0.0005	<0.0005
7/6/2015	<0.0005	<0.0005				
7/7/2015			<0.0005	<0.0005	<0.0005	<0.0005
8/12/2015	<0.0005	<0.0005	<0.0005			
8/13/2015				<0.0005	<0.0005	<0.0005
3/2/2016	<0.0005	<0.0005	<0.0005	<0.0005		
3/3/2016					<0.0005	<0.0005
5/3/2016	<0.0005	<0.0005		<0.0005	<0.0005	
5/4/2016			<0.0005			
5/9/2016						<0.0005
7/8/2016	<0.0005		<0.0005			
7/11/2016		<0.0005		<0.0005	<0.0005	<0.0005
9/7/2016		<0.0005				
9/8/2016	<0.0005		<0.0005			
9/9/2016				<0.0005	<0.0005	<0.0005
10/26/2016	<0.0005		<0.0005	<0.0005		<0.0005
10/27/2016		<0.0005			<0.0005	
1/6/2017		<0.0005				
1/9/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/15/2017			<0.0005			<0.0005
3/16/2017	<0.0005	<0.0005		<0.0005	<0.0005	
5/18/2017			<0.0005	<0.0005	<0.0005	<0.0005
5/19/2017	<0.0005	<0.0005				
9/15/2017			<0.0005	<0.0005		<0.0005
9/18/2017					<0.0005	
9/19/2017	<0.0005	<0.0005				
3/12/2018				<0.0005	<0.0005	
3/13/2018	<0.0005	<0.0005	<0.0005			<0.0005
9/6/2018			<0.0005			
9/7/2018				<0.0005	<0.0005	<0.0005
9/11/2018	<0.0005	<0.0005				
3/7/2019			<0.0005		<0.0005	<0.0005
3/8/2019	<0.0005			<0.0005		
3/12/2019		<0.0005				
9/4/2019						<0.0005
9/5/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/3/2020			<0.0005	<0.0005		
3/4/2020	<0.0005	<0.0005			<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	2.69E-05 (J)					
9/17/2014		2.97E-05 (J)	4.24E-05 (J)	3.5E-05 (J)	4.15E-05 (J)	
9/18/2014						5.34E-05 (J)
10/4/2014	<0.0005	<0.0005	2.5E-05 (J)	<0.0005	<0.0005	
10/5/2014						<0.0005
10/21/2014	3.18E-05 (J)	5.02E-05 (J)	6.4E-05 (J)	5.35E-05 (J)	5.89E-05 (J)	
10/22/2014						4.88E-05 (J)
11/5/2014			7.02E-05 (J)		7.28E-05 (J)	2.85E-05 (J)
11/11/2014	<0.0005	3.66E-05 (J)		4.64E-05 (J)		
3/3/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/4/2015						<0.0005
3/18/2015	<0.0005	<0.0005	<0.0005	<0.0005		
3/19/2015					<0.0005	<0.0005
4/6/2015	<0.0005	<0.0005				
4/7/2015			<0.0005	<0.0005	<0.0005	<0.0005
4/23/2015	<0.0005	<0.0005	<0.0005	<0.0005		
4/24/2015					<0.0005	<0.0005
7/29/2015	<0.0005	<0.0005	3.14E-05 (J)	<0.0005	<0.0005	
7/30/2015						<0.0005
3/3/2016	<0.0005 (D)					
3/4/2016		<0.0005				
3/7/2016			<0.0005	<0.0005	<0.0005	
3/8/2016						<0.0005
5/5/2016			<0.0005	<0.0005		
5/9/2016					<0.0005	<0.0005
5/10/2016	<0.0005	<0.0005				
7/13/2016	<0.0005		<0.0005	<0.0005		
7/14/2016		<0.0005			<0.0005	<0.0005
9/12/2016				<0.0005	<0.0005	<0.0005
9/13/2016			<0.0005			
9/14/2016		<0.0005				
9/15/2016	<0.0005					
10/31/2016			<0.0005		<0.0005	<0.0005
11/1/2016		<0.0005		<0.0005		
11/2/2016	<0.0005					
1/11/2017	<0.0005	<0.0005		<0.0005	<0.0005	
1/12/2017			<0.0005			<0.0005
3/20/2017	<0.0005			<0.0005		
3/21/2017		<0.0005			<0.0005	
3/22/2017						<0.0005
3/23/2017			<0.0005			
5/22/2017				<0.0005	<0.0005	<0.0005
5/23/2017	<0.0005	<0.0005	<0.0005			
9/19/2017						<0.0005
9/20/2017					<0.0005	
9/21/2017	<0.0005			<0.0005		
9/22/2017		<0.0005				
9/25/2017			<0.0005			
3/14/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/7/2018	<0.0005			<0.0005		
9/10/2018					<0.0005	<0.0005
9/11/2018		<0.0005	<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.0005					
3/12/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/6/2019				<0.0005		<0.0005 (D)
9/9/2019	<0.0005		<0.0005		<0.0005	
9/10/2019		<0.0005				
3/4/2020	<0.0005				<0.0005	
3/5/2020		<0.0005		<0.0005		<0.0005
3/6/2020			<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

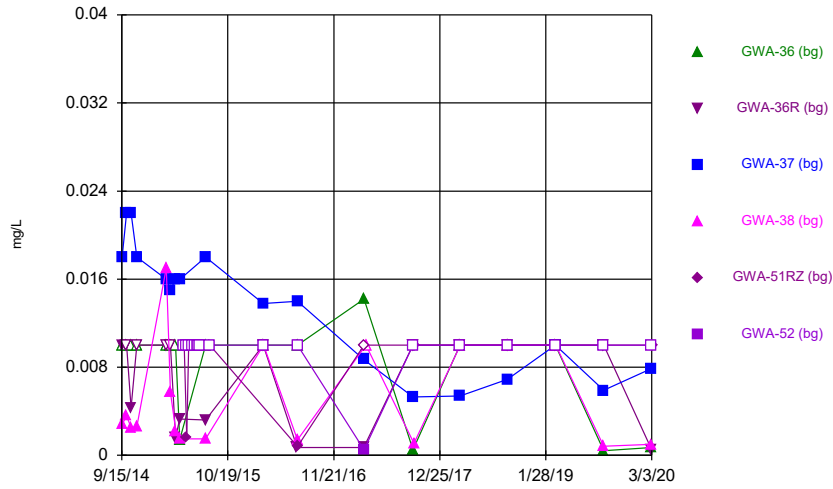
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				2.81E-05 (J)	3.13E-05 (J)
9/18/2014	<0.0005	2.54E-05 (J)	2.82E-05 (J)		
10/4/2014				<0.0005	<0.0005
10/5/2014	<0.0005	<0.0005	<0.0005		
10/22/2014	2.57E-05 (J)	2.83E-05 (J)	<0.0005		
10/23/2014				<0.0005	4.6E-05 (J)
11/5/2014	<0.0005	0.0002	4.83E-05 (J)		
11/10/2014				5.15E-05 (J)	2.5E-05 (J)
3/4/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2015	<0.0005	<0.0005			
3/20/2015			<0.0005	<0.0005	<0.0005
4/8/2015	<0.0005	<0.0005	<0.0005	<0.0005	
4/9/2015					<0.0005
4/23/2015			<0.0005	<0.0005	<0.0005
4/24/2015	<0.0005	<0.0005			
7/30/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/4/2016				<0.0005	
3/7/2016		<0.0005			
3/8/2016	<0.0005				<0.0005
3/9/2016			<0.0005		
5/4/2016					<0.0005
5/5/2016		<0.0005		<0.0005	
5/6/2016			<0.0005		
5/9/2016	<0.0005				
7/12/2016				<0.0005	
7/14/2016		<0.0005			
7/15/2016	<0.0005		<0.0005		
7/18/2016					<0.0005
9/9/2016	<0.0005				
9/12/2016		<0.0005			
9/13/2016				<0.0005	<0.0005
9/14/2016			<0.0005		
10/27/2016	<0.0005	<0.0005		<0.0005	<0.0005
11/1/2016			<0.0005		
1/12/2017	<0.0005				
1/13/2017		<0.0005		<0.0005	<0.0005
1/25/2017			<0.0005		
3/16/2017					<0.0005
3/20/2017		<0.0005		<0.0005	
3/21/2017	<0.0005				
3/22/2017			<0.0005		
5/19/2017				<0.0005	<0.0005
5/23/2017	<0.0005	<0.0005			
5/24/2017			<0.0005		
9/19/2017	<0.0005	<0.0005		<0.0005	<0.0005
9/21/2017			<0.0005		
3/13/2018		<0.0005		<0.0005	<0.0005
3/14/2018	<0.0005		<0.0005		
9/7/2018		<0.0005			
9/10/2018	<0.0005				
9/11/2018			<0.0005	<0.0005	<0.0005
3/8/2019				<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

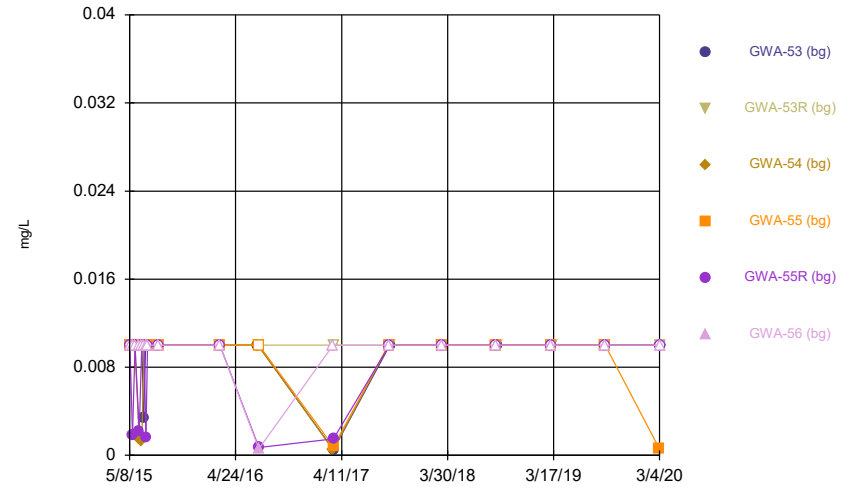
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.0005	<0.0005			
3/12/2019			<0.0005		
9/5/2019		<0.0005		<0.0005 (D)	<0.0005
9/6/2019	<0.0005		<0.0005		
3/3/2020	<0.0005	<0.0005		<0.0005	<0.0005
3/5/2020			<0.0005		

Time Series



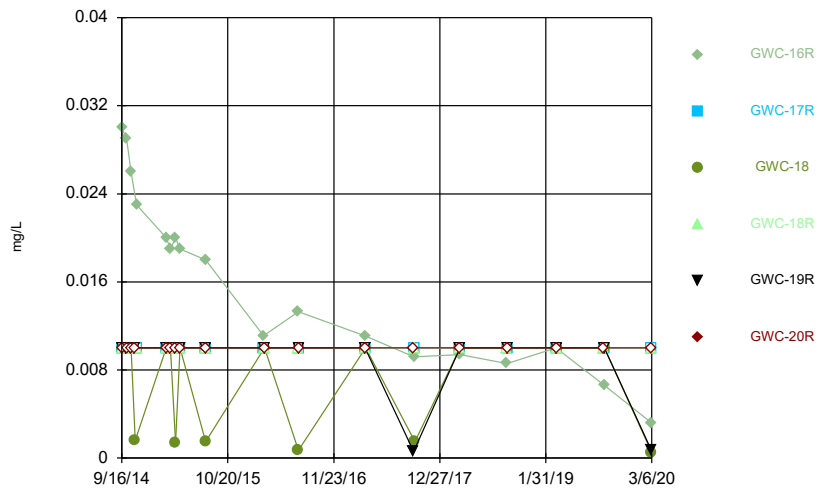
Constituent: Nickel Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



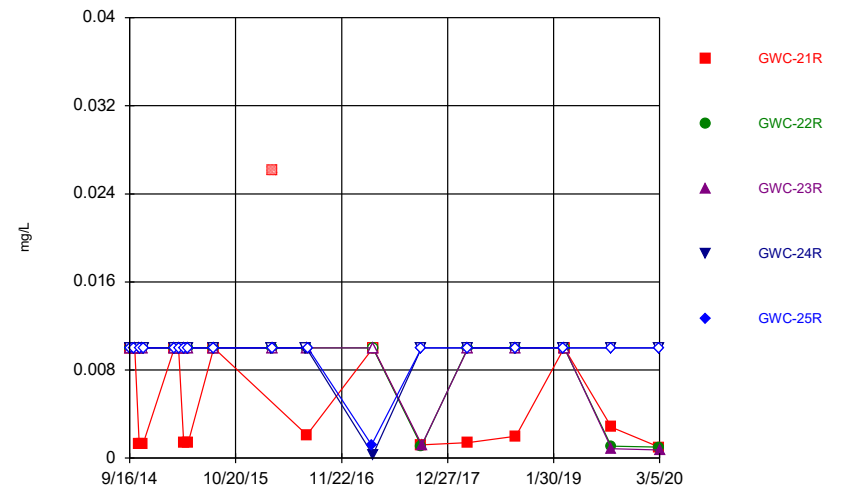
Constituent: Nickel Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Nickel Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Nickel Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.01	0.01				
9/16/2014			0.018	0.0028		
10/3/2014	<0.01	<0.01	0.022	0.0036		
10/20/2014	<0.01	0.0043	0.022	0.0025		
11/10/2014	<0.01	<0.01	0.018	0.0026		
3/2/2015	<0.01	<0.01	0.016	0.017		
3/17/2015	<0.01	<0.01	0.015	0.0057		
4/5/2015	<0.01	0.0016 (J)	0.016			
4/6/2015				0.0022 (J)		
4/21/2015	0.0014 (J)	0.0033				
4/22/2015			0.016	0.0015 (J)		
5/8/2015					<0.01	<0.01
5/17/2015					0.0016 (J)	<0.01
5/25/2015					<0.01	<0.01
6/8/2015					<0.01	<0.01
6/18/2015					<0.01	<0.01
6/24/2015					<0.01	<0.01
6/30/2015					<0.01	<0.01
7/6/2015					<0.01	<0.01
7/28/2015	<0.01	0.0032	0.018	0.0015 (J)		
8/12/2015					<0.01	<0.01
2/29/2016						<0.01
3/1/2016	<0.01	<0.01	0.0138			
3/2/2016				<0.01		
7/6/2016		0.0007 (J)				
7/7/2016	<0.01			0.0014 (J)	0.0008 (JD)	
7/8/2016			0.014			<0.01
3/14/2017		0.0007 (J)	0.0087 (J)			
3/15/2017	0.0142				<0.01 (D)	0.0005 (J)
3/23/2017				<0.01		
9/15/2017	0.0005 (J)	<0.01	0.0053 (J)			<0.01
9/19/2017				0.0011 (J)	<0.01 (D)	
3/12/2018	<0.01	<0.01	0.0054 (J)			
3/13/2018				<0.01	<0.01	<0.01
9/6/2018	<0.01	<0.01	0.0069 (J)	<0.01		<0.01
9/7/2018				<0.01		
3/6/2019	<0.01		<0.01			
3/7/2019		<0.01		<0.01		<0.01
3/8/2019					<0.01	
9/4/2019	0.00041 (J)	<0.01	0.0059 (J)	0.000825 (JD)	<0.01	<0.01
3/2/2020	0.00071 (J)	0.00051 (J)	0.0079 (J)	0.001 (J)		<0.01
3/3/2020					<0.01	

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.01				
5/9/2015	<0.01		<0.01	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	<0.01		<0.01	<0.01	0.0018 (J)	
5/19/2015						<0.01
5/25/2015	<0.01	<0.01	<0.01			
5/26/2015				<0.01	<0.01	<0.01
6/8/2015	<0.01	<0.01				
6/9/2015			0.0015 (J)	<0.01	0.0022 (J)	<0.01
6/17/2015	<0.01		0.0013 (J)	<0.01	<0.01	<0.01
6/18/2015		<0.01				
6/24/2015	0.0034	<0.01				
6/25/2015			<0.01	<0.01	<0.01	<0.01
6/30/2015	<0.01	<0.01				
7/1/2015			<0.01	<0.01	0.0016 (J)	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			<0.01	<0.01	<0.01	<0.01
8/12/2015	<0.01	<0.01	<0.01			
8/13/2015				<0.01	<0.01	<0.01
3/2/2016	<0.01	<0.01	<0.01	<0.01		
3/3/2016					<0.01	<0.01
7/8/2016	<0.01		<0.01			
7/11/2016		<0.01		<0.01	0.0007 (J)	0.0006 (J)
3/15/2017			0.0005 (J)			<0.01
3/16/2017	0.0005 (J)	<0.01		0.0008 (J)	0.0015 (J)	
9/15/2017			<0.01	<0.01		<0.01
9/18/2017					<0.01	
9/19/2017	<0.01	<0.01				
3/12/2018				<0.01	<0.01	
3/13/2018	<0.01	<0.01	<0.01			<0.01
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		<0.01	<0.01
3/8/2019	<0.01			<0.01		
3/12/2019		<0.01				
9/4/2019						<0.01
9/5/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
3/3/2020			<0.01	0.00061 (J)		
3/4/2020	<0.01	<0.01			<0.01	<0.01

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

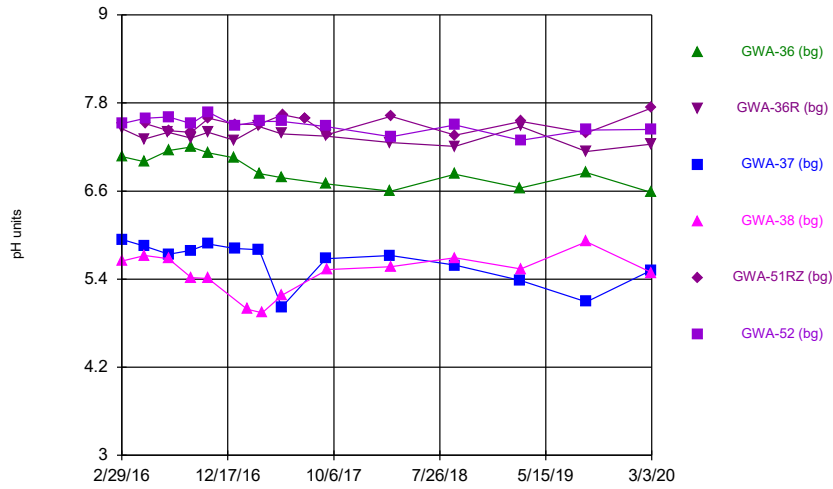
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.03					
9/17/2014		<0.01	<0.01	<0.01	<0.01	
9/18/2014						<0.01
10/4/2014	0.029	<0.01	<0.01	<0.01	<0.01	
10/5/2014						<0.01
10/21/2014	0.026	<0.01	<0.01	<0.01	<0.01	
10/22/2014						<0.01
11/5/2014			0.0016 (J)		<0.01	<0.01
11/11/2014	0.023	<0.01		<0.01		
3/3/2015	0.02	<0.01	<0.01	<0.01	<0.01	
3/4/2015						<0.01
3/18/2015	0.019	<0.01	<0.01	<0.01		
3/19/2015					<0.01	<0.01
4/6/2015	0.02	<0.01				
4/7/2015			0.0014 (J)	<0.01	<0.01	<0.01
4/23/2015	0.019	<0.01	<0.01	<0.01		
4/24/2015					<0.01	<0.01
7/29/2015	0.018	<0.01	0.0015 (J)	<0.01	<0.01	
7/30/2015						<0.01
3/3/2016	0.0111 (D)					
3/4/2016		<0.01				
3/7/2016			<0.01	<0.01	<0.01	
3/8/2016						<0.01
7/13/2016	0.0133		0.0007 (J)	<0.01		
7/14/2016		<0.01			<0.01	<0.01
3/20/2017	0.0111			<0.01		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01			
9/19/2017						<0.01
9/20/2017					0.0006 (J)	
9/21/2017	0.0092 (J)			<0.01		
9/22/2017		<0.01				
9/25/2017			0.0015 (J)			
3/14/2018	0.0094 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
9/7/2018	0.0086 (J)			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	<0.01			
3/11/2019	<0.01					
3/12/2019		<0.01	<0.01	<0.01	<0.01	<0.01
9/6/2019				<0.01		<0.01 (D)
9/9/2019	0.0066 (J)		<0.01		<0.01	
9/10/2019		<0.01				
3/4/2020	0.0032 (J)				0.00071 (J)	
3/5/2020		<0.01		<0.01		<0.01
3/6/2020			0.0005 (J)			

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

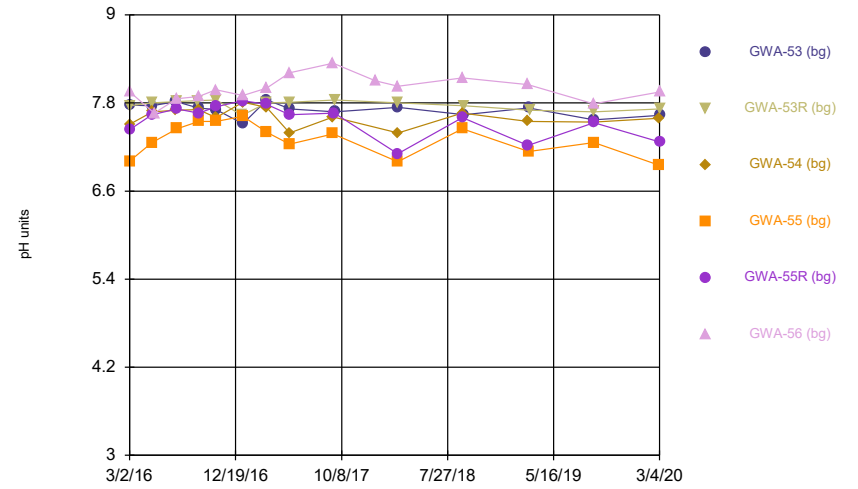
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.01	<0.01
9/18/2014	<0.01	<0.01	<0.01		
10/4/2014				<0.01	<0.01
10/5/2014	<0.01	<0.01	<0.01		
10/22/2014	0.0013 (J)	<0.01	<0.01		
10/23/2014				<0.01	<0.01
11/5/2014	0.0013 (J)	<0.01	<0.01		
11/10/2014				<0.01	<0.01
3/4/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2015	<0.01	<0.01			
3/20/2015			<0.01	<0.01	<0.01
4/8/2015	0.0014 (J)	<0.01	<0.01	<0.01	
4/9/2015					<0.01
4/23/2015			<0.01	<0.01	<0.01
4/24/2015	0.0014 (J)	<0.01			
7/30/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2016				<0.01	
3/7/2016		<0.01			
3/8/2016	0.0261 (o)				<0.01
3/9/2016			<0.01		
7/12/2016				<0.01	
7/14/2016		<0.01			
7/15/2016	0.0021 (J)		<0.01		
7/18/2016					<0.01
3/16/2017					0.0012 (J)
3/20/2017		<0.01		0.0003 (J)	
3/21/2017	<0.01				
3/22/2017			<0.01		
9/19/2017	0.0012 (J)	0.0011 (J)		<0.01	<0.01
9/21/2017			0.0012 (J)		
3/13/2018		<0.01		<0.01	<0.01
3/14/2018	0.0014 (J)		<0.01		
9/7/2018		<0.01			
9/10/2018	0.002 (J)				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01
3/11/2019	<0.01	<0.01			
3/12/2019			<0.01		
9/5/2019		0.0011 (J)		<0.01 (D)	<0.01
9/6/2019	0.0028 (J)		0.00086 (J)		
3/3/2020	0.00099 (J)	0.001 (J)		<0.01	<0.01
3/5/2020			0.00075 (J)		

Time Series



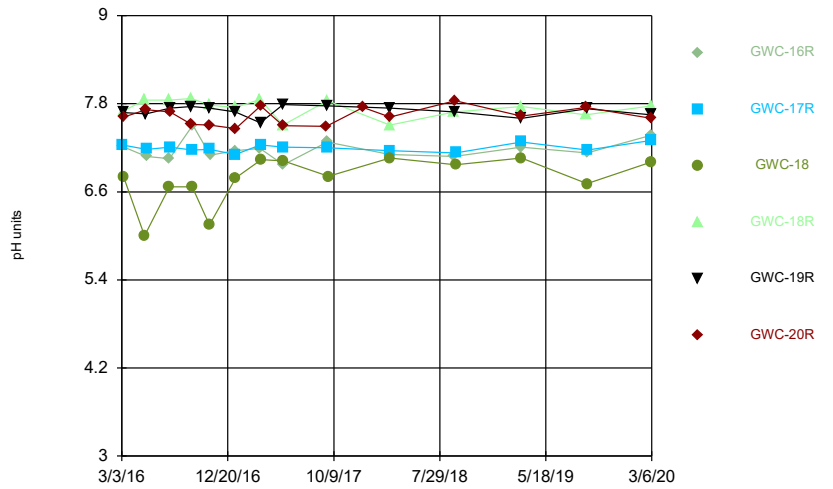
Constituent: pH Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



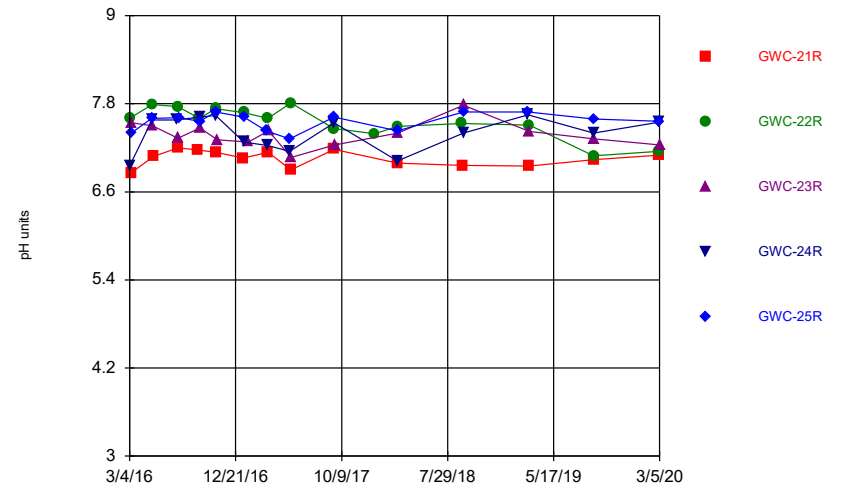
Constituent: pH Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: pH Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: pH Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: pH (pH units) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						7.52
3/1/2016	7.07	7.45	5.94 (D)			
3/2/2016				5.65		
5/2/2016	7	7.31				
5/3/2016			5.85	5.72		
5/4/2016					7.52 (D)	7.59
7/6/2016		7.4				
7/7/2016	7.15			5.68	7.42 (D)	
7/8/2016			5.74			7.61
9/7/2016	7.2	7.32	5.79			
9/8/2016				5.42	7.4 (D)	7.52
10/25/2016	7.12	7.4	5.88	5.41		
10/26/2016					7.59 (D)	7.67
1/5/2017	7.05	7.29				
1/6/2017			5.82		7.51 (D)	7.49
2/9/2017				4.99		
3/14/2017		7.48	5.8			
3/15/2017	6.84				7.51 (D)	7.55
3/23/2017				4.94		
5/16/2017		7.38	5.02			
5/17/2017	6.78			5.18		7.55
5/18/2017					7.64 (D)	
7/18/2017					7.58	
7/19/2017					7.58 (D)	
9/15/2017	6.7	7.35	5.68			7.48
9/19/2017				5.53	7.37 (D)	
3/12/2018	6.6	7.26	5.72			
3/13/2018				5.57	7.62	7.34
9/6/2018	6.83	7.21	5.59	5.69		7.5
9/7/2018					7.36	
3/6/2019	6.64		5.38			
3/7/2019		7.48		5.54		7.29
3/8/2019					7.55	
9/4/2019	6.85	7.14	5.09	5.91 (D)	7.39	7.43
3/2/2020	6.58	7.24	5.52	5.49		7.44
3/3/2020					7.73	

Time Series

Constituent: pH (pH units) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	7.77 (D)	7.76	7.51	7.01		
3/3/2016					7.44	7.95 (D)
5/3/2016	7.76	7.8		7.26	7.64	
5/4/2016			7.68			
5/9/2016						7.66
7/8/2016	7.82		7.7			
7/11/2016		7.82		7.45	7.72	7.86
9/7/2016		7.83				
9/8/2016	7.73		7.71			
9/9/2016				7.55	7.66	7.89
10/26/2016	7.71		7.6	7.55		7.98
10/27/2016		7.84			7.75	
1/6/2017		7.63				
1/9/2017	7.52		7.81	7.62	7.83	7.9
3/15/2017			7.74			8
3/16/2017	7.84	7.8		7.4	7.78	
5/18/2017			7.39	7.24	7.64	8.21
5/19/2017	7.72	7.81				
9/15/2017			7.61	7.38		8.34
9/18/2017					7.66	
9/19/2017	7.68	7.84				
1/9/2018						8.1 (Y)
3/12/2018				7	7.11	
3/13/2018	7.74	7.8	7.39			8.03
9/6/2018			7.66			
9/7/2018				7.45	7.6	8.14
9/11/2018	7.64	7.76				
3/7/2019			7.55		7.22	8.05
3/8/2019	7.73			7.14		
3/12/2019		7.7				
9/4/2019						7.79
9/5/2019	7.57	7.68	7.54	7.26	7.53	
3/3/2020			7.59	6.95		
3/4/2020	7.63	7.72			7.27	7.95

Time Series

Constituent: pH (pH units) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

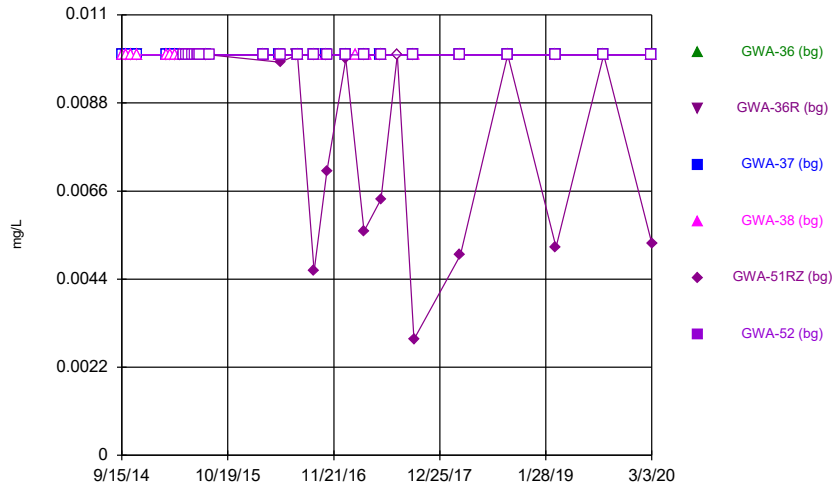
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	7.22 (D)					
3/4/2016		7.24				
3/7/2016			6.81	7.7	7.68	
3/8/2016						7.62
5/5/2016			6	7.85		
5/9/2016					7.66	7.72
5/10/2016	7.08	7.18				
7/13/2016	7.05		6.67	7.85		
7/14/2016		7.21			7.74	7.69
9/12/2016				7.87	7.76	7.52
9/13/2016		7.17	6.67			
9/15/2016	7.51					
10/31/2016			6.15		7.74	7.51
11/1/2016		7.18		7.78		
11/2/2016	7.1					
1/11/2017	7.16	7.11		7.75	7.69	
1/12/2017			6.79			7.46
3/20/2017	7.19			7.86		
3/21/2017		7.24			7.54	
3/22/2017						7.77
3/23/2017			7.04			
5/22/2017				7.51	7.79	7.5
5/23/2017	6.97	7.21	7.02			
9/19/2017						7.49
9/20/2017					7.77	
9/21/2017	7.28			7.84		
9/22/2017		7.2				
9/25/2017			6.81			
12/29/2017						7.75 (Y)
3/14/2018	7.11	7.16	7.06	7.51	7.74	7.62
9/7/2018	7.08			7.69		
9/10/2018					7.69	7.84
9/11/2018		7.13	6.97			
3/11/2019	7.21					
3/12/2019		7.28	7.06	7.76	7.6	7.63
9/6/2019				7.65		7.75 (D)
9/9/2019	7.13		6.71		7.73	
9/10/2019		7.17				
3/4/2020	7.37				7.65	
3/5/2020		7.3		7.77		7.6
3/6/2020			7.01			

Time Series

Constituent: pH (pH units) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

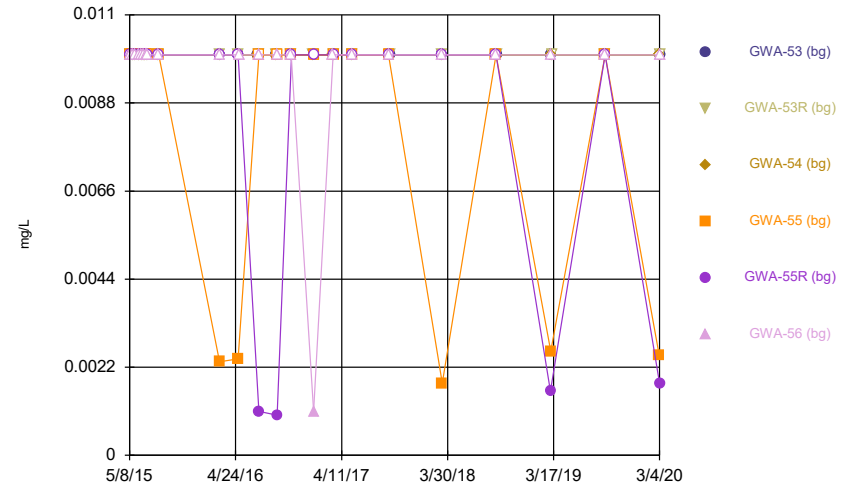
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				6.95	
3/7/2016		7.61			
3/8/2016	6.86				7.4
3/9/2016			7.54		
5/4/2016					7.6
5/5/2016		7.79		7.58	
5/6/2016			7.5		
5/9/2016	7.08				
7/12/2016				7.58	
7/14/2016		7.76			
7/15/2016	7.2		7.33		
7/18/2016					7.61
9/9/2016	7.17				
9/12/2016		7.6			
9/13/2016				7.62	7.56
9/14/2016			7.47		
10/27/2016	7.14	7.73		7.64	7.69
11/1/2016			7.31		
1/12/2017	7.06				
1/13/2017		7.68		7.28	7.62
1/25/2017			7.28		
3/16/2017					7.43
3/20/2017		7.6		7.23	
3/21/2017	7.14				
3/22/2017			7.43		
5/19/2017				7.15	7.32
5/23/2017	6.9	7.81			
5/24/2017			7.07		
9/19/2017	7.18	7.46		7.54	7.62
9/21/2017			7.24		
1/9/2018		7.39 (Y)			
3/13/2018		7.49		7.02	7.43
3/14/2018	6.99		7.4		
9/7/2018		7.53			
9/10/2018	6.96				
9/11/2018			7.78	7.4	7.69
3/8/2019				7.65	7.69
3/11/2019	6.95	7.51			
3/12/2019			7.42		
9/5/2019		7.09		7.4 (D)	7.59
9/6/2019	7.04		7.32		
3/3/2020	7.1	7.15		7.55	7.56
3/5/2020			7.24		

Time Series



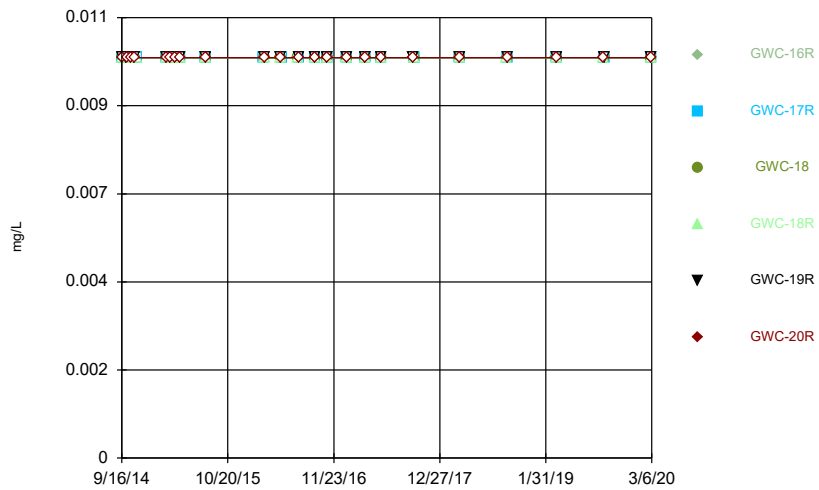
Constituent: Selenium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



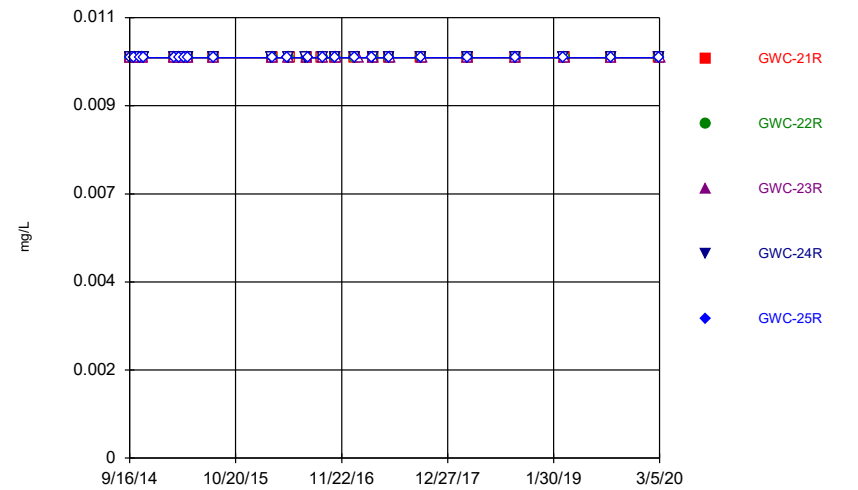
Constituent: Selenium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Selenium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Selenium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.01	<0.01				
9/16/2014			<0.01	<0.01		
10/3/2014	<0.01	<0.01	<0.01	<0.01		
10/20/2014	<0.01	<0.01	<0.01	<0.01		
11/10/2014	<0.01	<0.01	<0.01	<0.01		
3/2/2015	<0.01	<0.01	<0.01	<0.01		
3/17/2015	<0.01	<0.01	<0.01	<0.01		
4/5/2015	<0.01	<0.01	<0.01			
4/6/2015				<0.01		
4/21/2015	<0.01	<0.01				
4/22/2015			<0.01	<0.01		
5/8/2015					<0.01	<0.01
5/17/2015					<0.01	<0.01
5/25/2015					<0.01	<0.01
6/8/2015					<0.01	<0.01
6/18/2015					<0.01	<0.01
6/24/2015					<0.01	<0.01
6/30/2015					<0.01	<0.01
7/6/2015					<0.01	<0.01
7/28/2015	<0.01	<0.01	<0.01	<0.01		
8/12/2015					<0.01	<0.01
2/29/2016						<0.01
3/1/2016	<0.01	<0.01	<0.01			
3/2/2016				<0.01		
5/2/2016	<0.01	<0.01				
5/3/2016			<0.01	<0.01		
5/4/2016					0.00982 (JD)	<0.01
7/6/2016		<0.01				
7/7/2016	<0.01			<0.01	0.01 (D)	
7/8/2016			<0.01			<0.01
9/7/2016	<0.01	<0.01	<0.01			
9/8/2016				<0.01	0.0046 (JD)	<0.01
10/25/2016	<0.01	<0.01	<0.01	<0.01		
10/26/2016					0.0071 (JD)	<0.01
1/5/2017	<0.01	<0.01				
1/6/2017			<0.01		0.0099 (JD)	<0.01
2/9/2017				<0.01		
3/14/2017		<0.01	<0.01			
3/15/2017	<0.01				0.0056 (JD)	<0.01
3/23/2017				<0.01		
5/16/2017		<0.01	<0.01			
5/17/2017	<0.01			<0.01		<0.01
5/18/2017					0.0064 (JD)	
7/19/2017					<0.01 (D)	
9/15/2017	<0.01	<0.01	<0.01			<0.01
9/19/2017				<0.01	0.0029 (JD)	
3/12/2018	<0.01	<0.01	<0.01			
3/13/2018				<0.01	0.005 (J)	<0.01
9/6/2018	<0.01	<0.01	<0.01	<0.01		<0.01
9/7/2018					0.01	
3/6/2019	<0.01		<0.01			
3/7/2019		<0.01		<0.01		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					0.0052 (J)	
9/4/2019	<0.01	<0.01	<0.01	<0.01 (D)	0.01	<0.01
3/2/2020	<0.01	<0.01	<0.01	<0.01		<0.01
3/3/2020					0.0053 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.01				
5/9/2015	<0.01		<0.01	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	<0.01		<0.01	<0.01	<0.01	
5/19/2015						<0.01
5/25/2015	<0.01	<0.01	<0.01			
5/26/2015				<0.01	<0.01	<0.01
6/8/2015	<0.01	<0.01				
6/9/2015			<0.01	<0.01	<0.01	<0.01
6/17/2015	<0.01		<0.01	<0.01	<0.01	<0.01
6/18/2015		<0.01				
6/24/2015	<0.01	<0.01				
6/25/2015			<0.01	<0.01	<0.01	<0.01
6/30/2015	<0.01	<0.01				
7/1/2015			<0.01	<0.01	<0.01	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			<0.01	<0.01	<0.01	<0.01
8/12/2015	<0.01	<0.01	<0.01			
8/13/2015				<0.01	<0.01	<0.01
3/2/2016	<0.01	<0.01	<0.01	0.00234 (J)		
3/3/2016					<0.01	<0.01
5/3/2016	<0.01	<0.01		0.00241 (J)	<0.01	
5/4/2016			<0.01			
5/9/2016						<0.01
7/8/2016	<0.01		<0.01			
7/11/2016		<0.01		<0.01	0.0011 (J)	<0.01
9/7/2016		<0.01				
9/8/2016	<0.01		<0.01			
9/9/2016				<0.01	0.001 (J)	<0.01
10/26/2016	<0.01		<0.01	<0.01		<0.01
10/27/2016		<0.01			<0.01	
1/6/2017		<0.01				
1/9/2017	<0.01		<0.01	<0.01	<0.01	0.0011 (J)
3/15/2017			<0.01			<0.01
3/16/2017	<0.01	<0.01		<0.01	<0.01	
5/18/2017			<0.01	<0.01	<0.01	<0.01
5/19/2017	<0.01	<0.01				
9/15/2017			<0.01	<0.01		<0.01
9/18/2017					<0.01	
9/19/2017	<0.01	<0.01				
3/12/2018				0.0018 (J)	<0.01	
3/13/2018	<0.01	<0.01	<0.01			<0.01
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		0.0016 (J)	<0.01
3/8/2019	<0.01			0.0026 (J)		
3/12/2019		<0.01				
9/4/2019						<0.01
9/5/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
3/3/2020			<0.01	0.0025 (J)		
3/4/2020	<0.01	<0.01			0.0018 (J)	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.01					
9/17/2014		<0.01	<0.01	<0.01	<0.01	
9/18/2014						<0.01
10/4/2014	<0.01	<0.01	<0.01	<0.01	<0.01	
10/5/2014						<0.01
10/21/2014	<0.01	<0.01	<0.01	<0.01	<0.01	
10/22/2014						<0.01
11/5/2014			<0.01		<0.01	<0.01
11/11/2014	<0.01	<0.01		<0.01		
3/3/2015	<0.01	<0.01	<0.01	<0.01	<0.01	
3/4/2015						<0.01
3/18/2015	<0.01	<0.01	<0.01	<0.01		
3/19/2015					<0.01	<0.01
4/6/2015	<0.01	<0.01				
4/7/2015			<0.01	<0.01	<0.01	<0.01
4/23/2015	<0.01	<0.01	<0.01	<0.01		
4/24/2015					<0.01	<0.01
7/29/2015	<0.01	<0.01	<0.01	<0.01	<0.01	
7/30/2015						<0.01
3/3/2016	<0.01 (D)					
3/4/2016		<0.01				
3/7/2016			<0.01	<0.01	<0.01	
3/8/2016						<0.01
5/5/2016			<0.01	<0.01		
5/9/2016					<0.01	<0.01
5/10/2016	<0.01	<0.01				
7/13/2016	<0.01		<0.01	<0.01		
7/14/2016		<0.01			<0.01	<0.01
9/12/2016				<0.01	<0.01	<0.01
9/13/2016			<0.01			
9/14/2016		<0.01				
9/15/2016	<0.01					
10/31/2016			<0.01		<0.01	<0.01
11/1/2016		<0.01		<0.01		
11/2/2016	<0.01					
1/11/2017	<0.01	<0.01		<0.01	<0.01	
1/12/2017			<0.01			<0.01
3/20/2017	<0.01			<0.01		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01			
5/22/2017				<0.01	<0.01	<0.01
5/23/2017	<0.01	<0.01	<0.01			
9/19/2017						<0.01
9/20/2017					<0.01	
9/21/2017	<0.01			<0.01		
9/22/2017		<0.01				
9/25/2017			<0.01			
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/7/2018	<0.01			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	<0.01			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.01					
3/12/2019		<0.01	<0.01	<0.01	<0.01	<0.01
9/6/2019				<0.01		<0.01 (D)
9/9/2019	<0.01		<0.01		<0.01	
9/10/2019		<0.01				
3/4/2020	<0.01				<0.01	
3/5/2020		<0.01		<0.01		<0.01
3/6/2020			<0.01			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

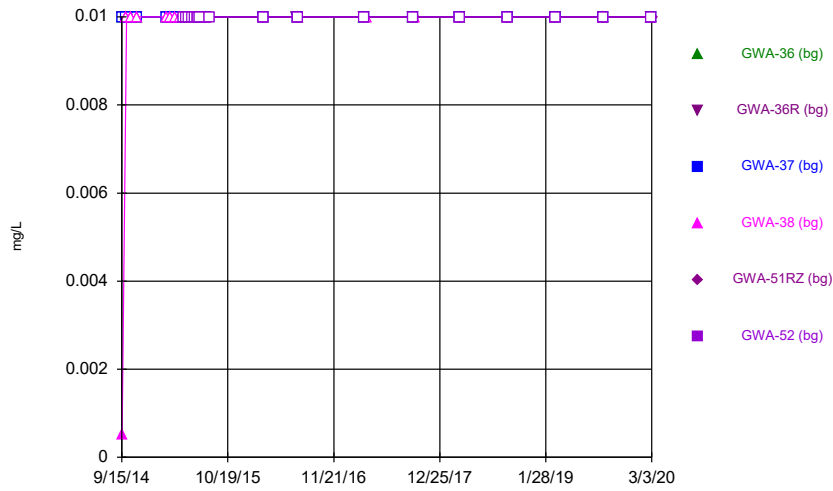
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.01	<0.01
9/18/2014	<0.01	<0.01	<0.01		
10/4/2014				<0.01	<0.01
10/5/2014	<0.01	<0.01	<0.01		
10/22/2014	<0.01	<0.01	<0.01		
10/23/2014				<0.01	<0.01
11/5/2014	<0.01	<0.01	<0.01		
11/10/2014				<0.01	<0.01
3/4/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2015	<0.01	<0.01			
3/20/2015			<0.01	<0.01	<0.01
4/8/2015	<0.01	<0.01	<0.01	<0.01	
4/9/2015					<0.01
4/23/2015			<0.01	<0.01	<0.01
4/24/2015	<0.01	<0.01			
7/30/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2016				<0.01	
3/7/2016		<0.01			
3/8/2016	<0.01				<0.01
3/9/2016			<0.01		
5/4/2016					<0.01
5/5/2016		<0.01		<0.01	
5/6/2016			<0.01		
5/9/2016	<0.01				
7/12/2016				<0.01	
7/14/2016		<0.01			
7/15/2016	<0.01		<0.01		
7/18/2016					<0.01
9/9/2016	<0.01				
9/12/2016		<0.01			
9/13/2016				<0.01	<0.01
9/14/2016			<0.01		
10/27/2016	<0.01	<0.01		<0.01	<0.01
11/1/2016			<0.01		
1/12/2017	<0.01				
1/13/2017		<0.01		<0.01	<0.01
1/25/2017			<0.01		
3/16/2017					<0.01
3/20/2017		<0.01		<0.01	
3/21/2017	<0.01				
3/22/2017			<0.01		
5/19/2017				<0.01	<0.01
5/23/2017	<0.01	<0.01			
5/24/2017			<0.01		
9/19/2017	<0.01	<0.01		<0.01	<0.01
9/21/2017			<0.01		
3/13/2018		<0.01		<0.01	<0.01
3/14/2018	<0.01		<0.01		
9/7/2018		<0.01			
9/10/2018	<0.01				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

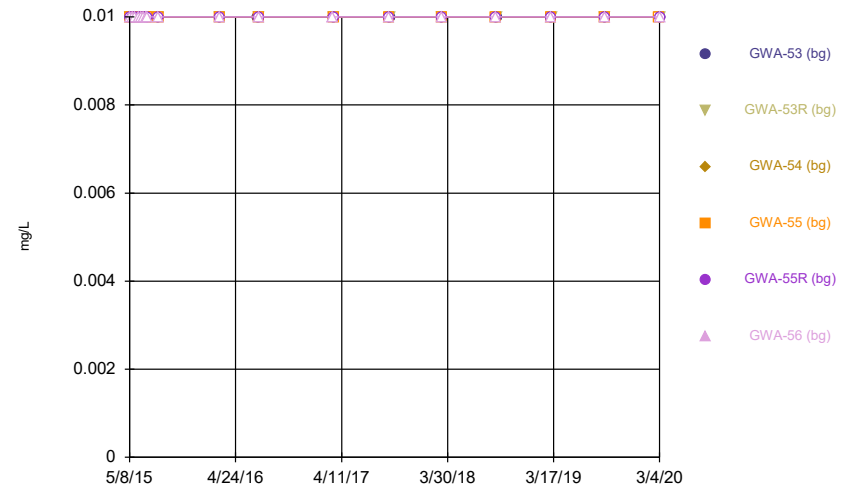
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.01	<0.01			
3/12/2019			<0.01		
9/5/2019		<0.01		<0.01 (D)	<0.01
9/6/2019	<0.01		<0.01		
3/3/2020	<0.01	<0.01		<0.01	<0.01
3/5/2020			<0.01		

Time Series



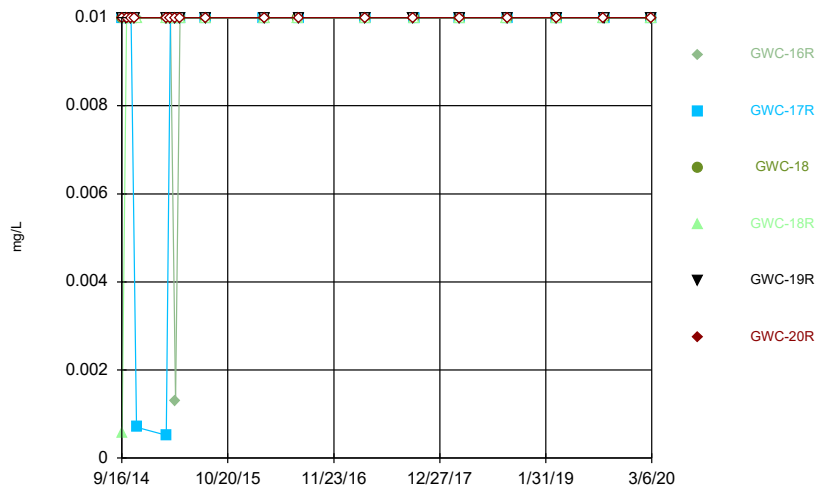
Constituent: Silver Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



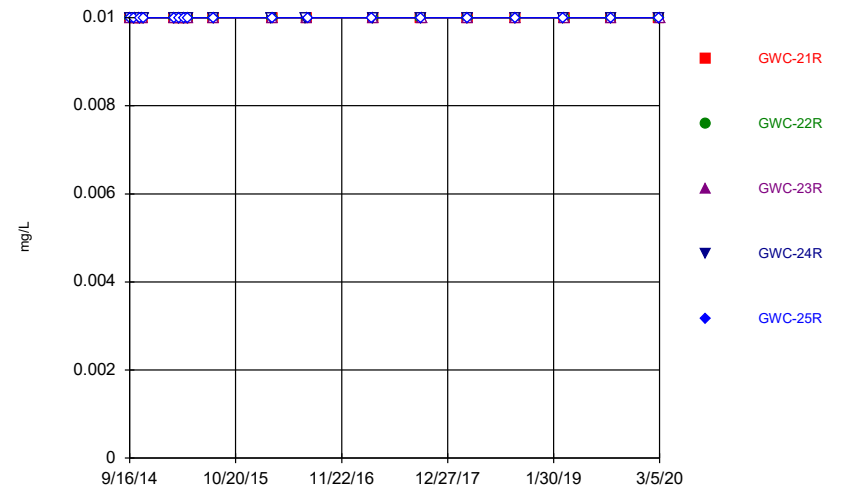
Constituent: Silver Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Silver Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Silver Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Silver (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.01	<0.01				
9/16/2014			<0.01	0.00051 (J)		
10/3/2014	<0.01	<0.01	<0.01	<0.01		
10/20/2014	<0.01	<0.01	<0.01	<0.01		
11/10/2014	<0.01	<0.01	<0.01	<0.01		
3/2/2015	<0.01	<0.01	<0.01	<0.01		
3/17/2015	<0.01	<0.01	<0.01	<0.01		
4/5/2015	<0.01	<0.01	<0.01			
4/6/2015				<0.01		
4/21/2015	<0.01	<0.01				
4/22/2015			<0.01	<0.01		
5/8/2015					<0.01	<0.01
5/17/2015					<0.01	<0.01
5/25/2015					<0.01	<0.01
6/8/2015					<0.01	<0.01
6/18/2015					<0.01	<0.01
6/24/2015					<0.01	<0.01
6/30/2015					<0.01	<0.01
7/6/2015					<0.01	<0.01
7/28/2015	<0.01	<0.01	<0.01	<0.01		
8/12/2015					<0.01	<0.01
2/29/2016						<0.01
3/1/2016	<0.01	<0.01	<0.01			
3/2/2016				<0.01		
7/6/2016		<0.01				
7/7/2016	<0.01			<0.01	<0.01 (D)	
7/8/2016			<0.01			<0.01
3/14/2017		<0.01	<0.01			
3/15/2017	<0.01				<0.01 (D)	<0.01
3/23/2017				<0.01		
9/15/2017	<0.01	<0.01	<0.01			<0.01
9/19/2017				<0.01	<0.01 (D)	
3/12/2018	<0.01	<0.01	<0.01			
3/13/2018				<0.01	<0.01	<0.01
9/6/2018	<0.01	<0.01	<0.01	<0.01		<0.01
9/7/2018					<0.01	
3/6/2019	<0.01		<0.01			
3/7/2019		<0.01		<0.01		<0.01
3/8/2019					<0.01	
9/4/2019	<0.01	<0.01	<0.01	<0.01 (D)	<0.01	<0.01
3/2/2020	<0.01	<0.01	<0.01	<0.01		<0.01
3/3/2020					<0.01	

Time Series

Constituent: Silver (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.01				
5/9/2015	<0.01		<0.01	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	<0.01		<0.01	<0.01	<0.01	
5/19/2015						<0.01
5/25/2015	<0.01	<0.01	<0.01			
5/26/2015				<0.01	<0.01	<0.01
6/8/2015	<0.01	<0.01				
6/9/2015			<0.01	<0.01	<0.01	<0.01
6/17/2015	<0.01		<0.01	<0.01	<0.01	<0.01
6/18/2015		<0.01				
6/24/2015	<0.01	<0.01				
6/25/2015			<0.01	<0.01	<0.01	<0.01
6/30/2015	<0.01	<0.01				
7/1/2015			<0.01	<0.01	<0.01	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			<0.01	<0.01	<0.01	<0.01
8/12/2015	<0.01	<0.01	<0.01			
8/13/2015				<0.01	<0.01	<0.01
3/2/2016	<0.01	<0.01	<0.01	<0.01		
3/3/2016					<0.01	<0.01
7/8/2016	<0.01		<0.01			
7/11/2016		<0.01		<0.01	<0.01	<0.01
3/15/2017			<0.01			<0.01
3/16/2017	<0.01	<0.01		<0.01	<0.01	
9/15/2017			<0.01	<0.01		<0.01
9/18/2017					<0.01	
9/19/2017	<0.01	<0.01				
3/12/2018				<0.01	<0.01	
3/13/2018	<0.01	<0.01	<0.01			<0.01
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		<0.01	<0.01
3/8/2019	<0.01			<0.01		
3/12/2019		<0.01				
9/4/2019						<0.01
9/5/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
3/3/2020			<0.01	<0.01		
3/4/2020	<0.01	<0.01			<0.01	<0.01

Time Series

Constituent: Silver (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

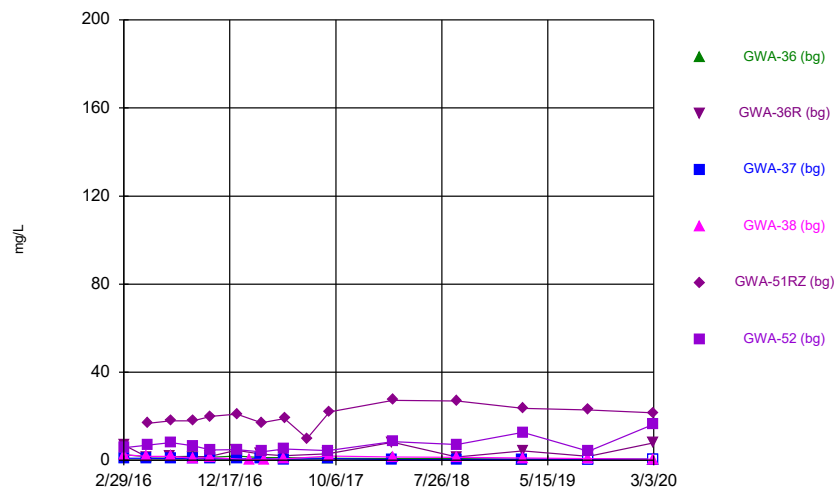
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.01					
9/17/2014		<0.01	<0.01	0.00058 (J)	<0.01	
9/18/2014						<0.01
10/4/2014	<0.01	<0.01	<0.01	<0.01	<0.01	
10/5/2014						<0.01
10/21/2014	<0.01	<0.01	<0.01	<0.01	<0.01	
10/22/2014						<0.01
11/5/2014			<0.01		<0.01	<0.01
11/11/2014	<0.01	0.0007 (J)		<0.01		
3/3/2015	<0.01	0.00052 (J)	<0.01	<0.01	<0.01	
3/4/2015						<0.01
3/18/2015	<0.01	<0.01	<0.01	<0.01		
3/19/2015					<0.01	<0.01
4/6/2015	0.0013 (J)	<0.01				
4/7/2015			<0.01	<0.01	<0.01	<0.01
4/23/2015	<0.01	<0.01	<0.01	<0.01		
4/24/2015					<0.01	<0.01
7/29/2015	<0.01	<0.01	<0.01	<0.01	<0.01	
7/30/2015						<0.01
3/3/2016	<0.01 (D)					
3/4/2016		<0.01				
3/7/2016			<0.01	<0.01	<0.01	
3/8/2016						<0.01
7/13/2016	<0.01		<0.01	<0.01		
7/14/2016		<0.01			<0.01	<0.01
3/20/2017	<0.01			<0.01		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01			
9/19/2017						<0.01
9/20/2017					<0.01	
9/21/2017	<0.01			<0.01		
9/22/2017		<0.01				
9/25/2017			<0.01			
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/7/2018	<0.01			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	<0.01			
3/11/2019	<0.01					
3/12/2019		<0.01	<0.01	<0.01	<0.01	<0.01
9/6/2019				<0.01		<0.01 (D)
9/9/2019	<0.01		<0.01		<0.01	
9/10/2019		<0.01				
3/4/2020	<0.01				<0.01	
3/5/2020		<0.01		<0.01		<0.01
3/6/2020			<0.01			

Time Series

Constituent: Silver (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

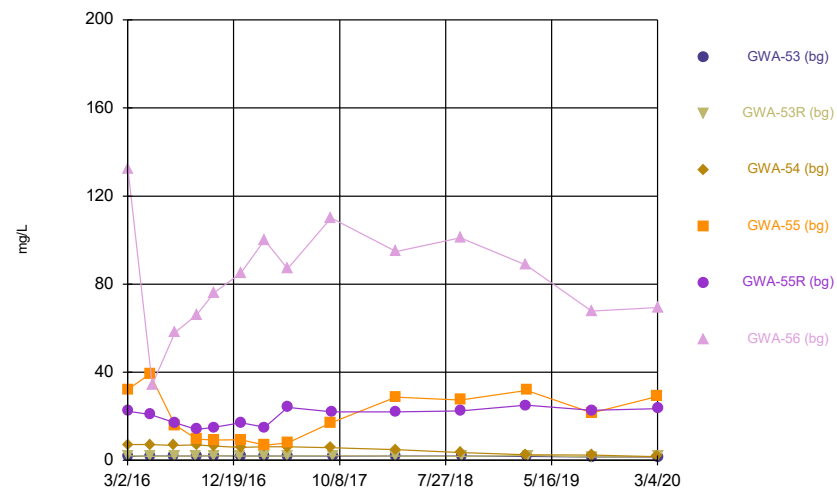
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.01	<0.01
9/18/2014	<0.01	<0.01	<0.01		
10/4/2014				<0.01	<0.01
10/5/2014	<0.01	<0.01	<0.01		
10/22/2014	<0.01	<0.01	<0.01		
10/23/2014				<0.01	<0.01
11/5/2014	<0.01	<0.01	<0.01		
11/10/2014				<0.01	<0.01
3/4/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2015	<0.01	<0.01			
3/20/2015			<0.01	<0.01	<0.01
4/8/2015	<0.01	<0.01	<0.01	<0.01	
4/9/2015					<0.01
4/23/2015			<0.01	<0.01	<0.01
4/24/2015	<0.01	<0.01			
7/30/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2016				<0.01	
3/7/2016		<0.01			
3/8/2016	<0.01				<0.01
3/9/2016			<0.01		
7/12/2016				<0.01	
7/14/2016		<0.01			
7/15/2016	<0.01		<0.01		
7/18/2016					<0.01
3/16/2017					<0.01
3/20/2017		<0.01		<0.01	
3/21/2017	<0.01				
3/22/2017			<0.01		
9/19/2017	<0.01	<0.01		<0.01	<0.01
9/21/2017			<0.01		
3/13/2018		<0.01		<0.01	<0.01
3/14/2018	<0.01		<0.01		
9/7/2018		<0.01			
9/10/2018	<0.01				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01
3/11/2019	<0.01	<0.01			
3/12/2019			<0.01		
9/5/2019		<0.01		<0.01 (D)	<0.01
9/6/2019	<0.01		<0.01		
3/3/2020	<0.01	<0.01		<0.01	<0.01
3/5/2020			<0.01		

Time Series



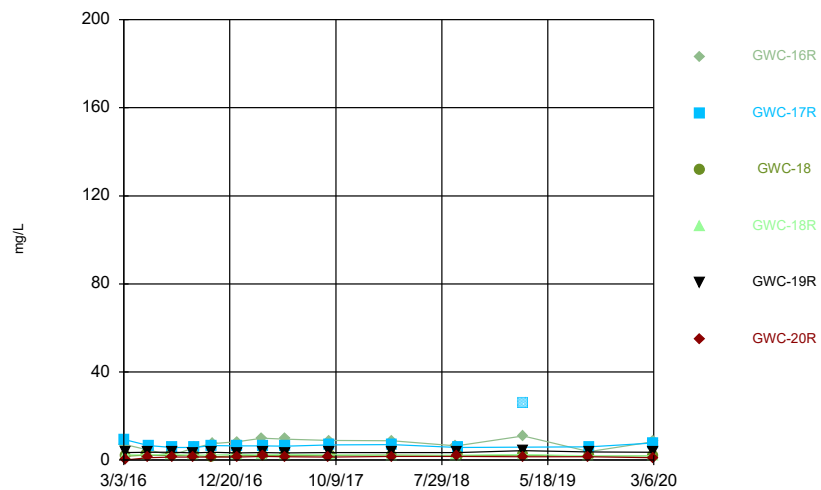
Constituent: Sulfate Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



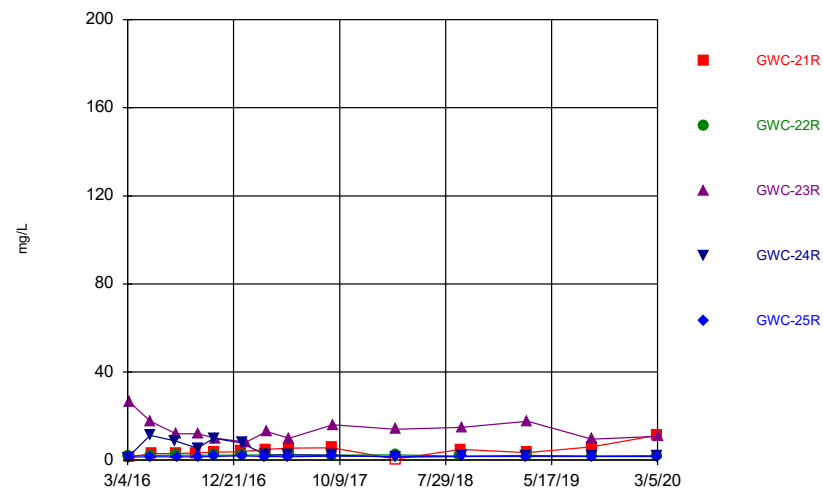
Constituent: Sulfate Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Sulfate Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Sulfate Analysis Run 4/16/2020 1:13 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						5.7396
3/1/2016	2.5655	6.8929	0.9427 (J)			
3/2/2016				2.5669		
5/2/2016	1.64	1.6				
5/3/2016			0.87 (J)	1.83		
5/4/2016					16.8 (D)	6.87
7/6/2016		1.7				
7/7/2016	1.7			1.8	18 (D)	
7/8/2016			0.79 (J)			8.1
9/7/2016	1.8	1.5	0.85 (J)			
9/8/2016				0.97 (J)	18 (D)	6.6
10/25/2016	1.4	1.8	0.74 (J)	1.2		
10/26/2016					20 (D)	4.7
1/5/2017	1.9 (J)	4.6				
1/6/2017			0.64 (J)		21 (D)	4.8
2/9/2017				0.31 (J)		
3/14/2017		2.8	0.77 (J)			
3/15/2017	1.2				17 (D)	3.9
3/23/2017				0.54 (J)		
5/16/2017		2.1	0.48 (J)			
5/17/2017	1.2			0.66 (J)		5.2
5/18/2017					19 (D)	
7/19/2017					10 (D)	
9/15/2017	1	3	0.76 (J)			4.4
9/19/2017				2	22 (D)	
3/12/2018	0.77 (J)	8.2	0.42 (J)			
3/13/2018				1.5	27.3	8.5
9/6/2018	0.8 (J)	1.5	0.37 (J)	1.4		7.2
9/7/2018					26.9	
3/6/2019	0.45 (J)		0.46 (J)			
3/7/2019		4.3		1.1		12.7
3/8/2019					23.6	
9/4/2019	0.68 (J)	1.8	<1	0.83 (J)	22.9	4.2
3/2/2020	<1	7.9	<1	0.5 (J)		16.3
3/3/2020					21.5	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	1.799	2.0407	7.1892	32.178		
3/3/2016					22.316	132.4615
5/3/2016	1.94	1.86		39.2	20.8	
5/4/2016			7.22			
5/9/2016						34.3
7/8/2016	2		6.7			
7/11/2016		2		16	17	58
9/7/2016		1.9				
9/8/2016	1.9		7			
9/9/2016				9.7	14	66
10/26/2016	2.1		6.4	9.2		76
10/27/2016		2.1			15	
1/6/2017		2				
1/9/2017	1.9		5.9	9.3	17	85
3/15/2017			6.2			100
3/16/2017	2	1.9		6.9	15	
5/18/2017			6.1	7.9	24	87
5/19/2017	2	1.9				
9/15/2017			5.8	17		110
9/18/2017					22	
9/19/2017	2	2.1				
3/12/2018				28.7	22	
3/13/2018	1.9	1.9	4.9			94.8
9/6/2018			3.5			
9/7/2018				27.4	22.4	101
9/11/2018	1.9	1.8				
3/7/2019			2.6		25	88.7
3/8/2019	1.8			31.8		
3/12/2019		2.2				
9/4/2019						67.8
9/5/2019	1.5	1.5	2.4	21.5	22.7	
3/3/2020			1.7	29		
3/4/2020	1.5	1.7			23.4	69.4

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

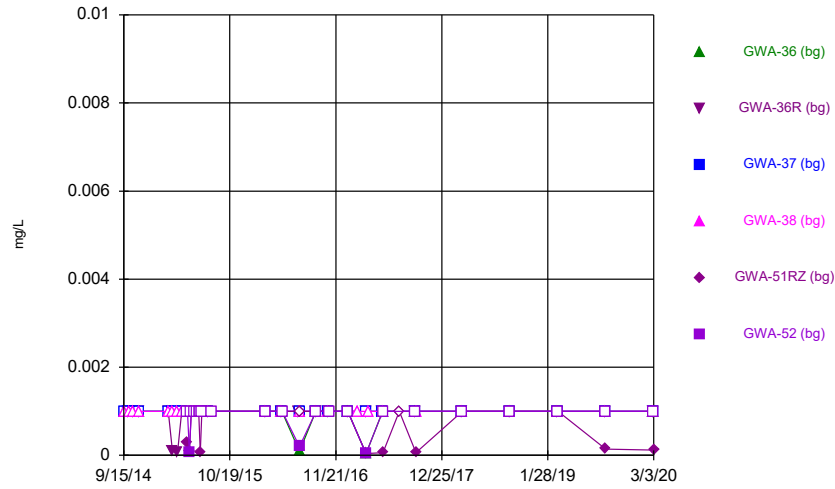
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	7.1809 (D)					
3/4/2016		9.3417				
3/7/2016			1.7468	2.3258	3.3556	
3/8/2016						0.0196 (J)
5/5/2016			2.27	2.42		
5/9/2016					3.62	1.15
5/10/2016	4.6	6.65				
7/13/2016	2.3		2.1	2.5		
7/14/2016		5.7			3.5	1.3
9/12/2016				2.3	3.3	1.3
9/13/2016			2.1			
9/14/2016		5.8				
9/15/2016	5.6					
10/31/2016			1.5		3.5	1.4
11/1/2016		6.6				
11/2/2016	7.5					
1/11/2017	8.3	6.5		2.5	3.2	
1/12/2017			1.9			1.4
3/20/2017	10			2.4		
3/21/2017		6.4			3.4	
3/22/2017						1.7
3/23/2017			2.1			
5/22/2017				2.5	3.3	1.5
5/23/2017	9.5	6.3	2			
9/19/2017						1.3
9/20/2017					3.4	
9/21/2017	8.9			2.4		
9/22/2017		6.9				
9/25/2017			2.1			
3/14/2018	8.8	7	2.2	2.2	3.4	1.6
9/7/2018	6.5			2.2		
9/10/2018					3.4	1.7
9/11/2018		5.8	2			
3/11/2019	11					
3/12/2019		25.9 (O)	2.3	2.6	4.3	1.5
9/6/2019				2		1.45 (D)
9/9/2019	3.8		1.8		3.7	
9/10/2019		6				
3/4/2020	8.4				3.6	
3/5/2020		7.7		1.9		1.1
3/6/2020			2			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

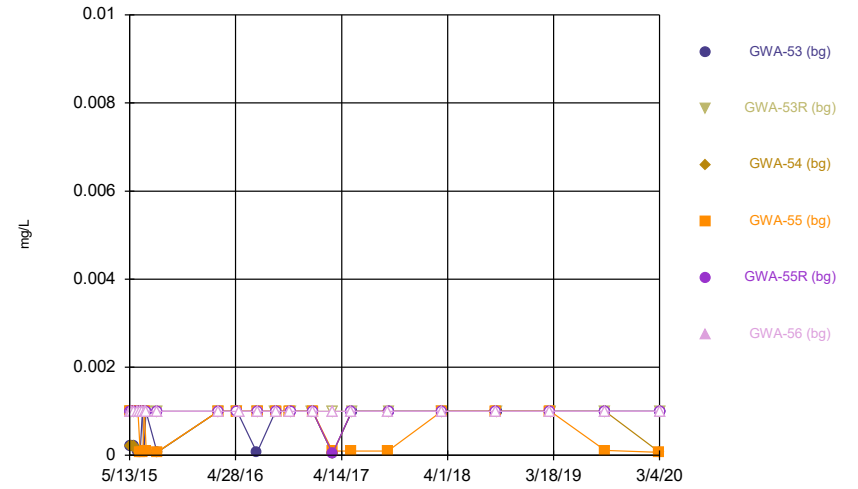
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				1.0816	
3/7/2016		2.1008			
3/8/2016	1.3858				1.3157
3/9/2016			26.4322		
5/4/2016					1.46
5/5/2016		2.16		11.3	
5/6/2016			17.7		
5/9/2016	2.94				
7/12/2016				8.8	
7/14/2016		2.3			
7/15/2016	3		12		
7/18/2016					1.5
9/9/2016	3.2				
9/13/2016				5.4	1.5
9/14/2016			12		
10/27/2016	3.6	2.3		9.9	1.7
11/1/2016			10		
1/12/2017	3.9				
1/13/2017		2.3		7.8	2
1/25/2017			8.2		
3/16/2017					1.6
3/20/2017		2.4		2.3	
3/21/2017	4.8				
3/22/2017			13		
5/19/2017				2.4	1.5
5/23/2017	5.4	2.4			
5/24/2017			10		
9/19/2017	5.6	2.2		2.3	1.8
9/21/2017			16		
3/13/2018		2.4		1.4	1.7
3/14/2018	<1		14		
9/7/2018		1.8			
9/10/2018	4.8				
9/11/2018			14.9	1.7	1.7
3/8/2019				1.9	1.6
3/11/2019	3.4	2			
3/12/2019			17.7		
9/5/2019		1.7		1.8 (D)	1.6
9/6/2019	6		9.5		
3/3/2020	11.3	1.7		2	1.6
3/5/2020			10.8		

Time Series



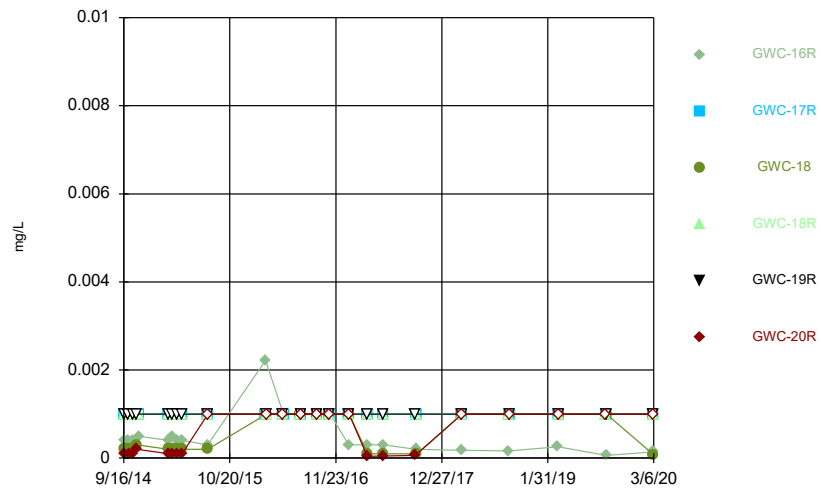
Constituent: Thallium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



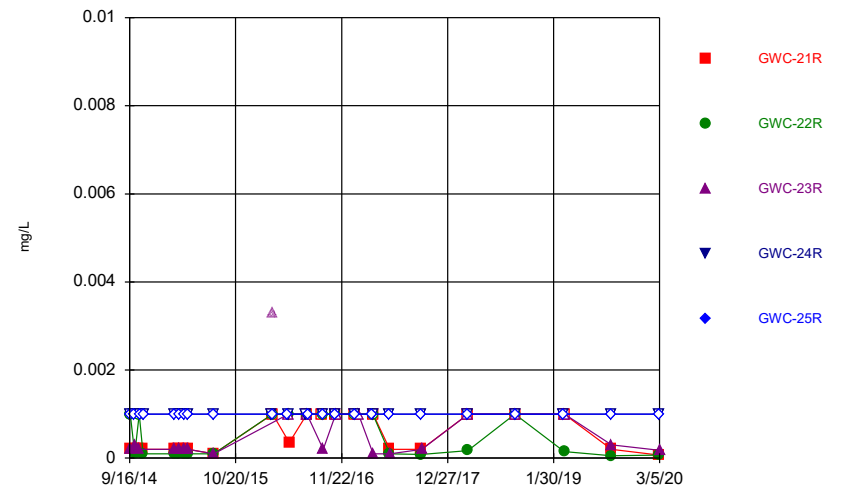
Constituent: Thallium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Thallium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Thallium Analysis Run 4/16/2020 1:13 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.001					
9/16/2014			<0.001	<0.001		
10/3/2014	<0.001	<0.001	<0.001			
10/6/2014				<0.001		
10/20/2014	<0.001	<0.001	<0.001	<0.001		
11/10/2014	<0.001	<0.001	<0.001	<0.001		
3/2/2015	<0.001	<0.001	<0.001	<0.001		
3/17/2015	<0.001	0.0001 (J)	<0.001	<0.001		
4/5/2015	<0.001	7E-05 (J)	<0.001			
4/6/2015				<0.001		
4/21/2015	<0.001	<0.001				
4/22/2015			<0.001	<0.001		
5/13/2015					0.0003 (J)	<0.001
5/20/2015					9E-05 (J)	6E-05 (J)
5/27/2015					<0.001	<0.001
6/8/2015					<0.001	<0.001
6/18/2015					<0.001	<0.001
6/24/2015					<0.001	<0.001
6/30/2015					6E-05 (J)	<0.001
7/6/2015					<0.001	<0.001
7/28/2015	<0.001	<0.001	<0.001	<0.001		
8/12/2015					<0.001	<0.001
2/29/2016						<0.001
3/1/2016	<0.001	<0.001	<0.001			
3/2/2016				<0.001		
5/2/2016	<0.001	<0.001				
5/3/2016			<0.001	<0.001		
5/4/2016					<0.001 (D)	<0.001
7/6/2016		<0.001				
7/7/2016	9E-05 (J)			<0.001	<0.001 (D)	
7/8/2016			<0.001			0.0002 (J)
9/7/2016	<0.001	<0.001	<0.001			
9/8/2016				<0.001	<0.001 (D)	<0.001
10/25/2016	<0.001	<0.001	<0.001	<0.001		
10/26/2016					<0.001 (D)	<0.001
1/5/2017	<0.001	<0.001				
1/6/2017			<0.001		<0.001 (D)	<0.001
2/9/2017				<0.001		
3/14/2017		<0.001	<0.001			
3/15/2017	4E-05 (J)				4E-05 (JD)	4E-05 (J)
3/23/2017				<0.001		
5/16/2017		<0.001	<0.001			
5/17/2017	<0.001			<0.001		<0.001
5/18/2017					6E-05 (JD)	
7/19/2017					<0.001 (D)	
9/15/2017	<0.001	<0.001	<0.001			<0.001
9/19/2017				<0.001	6E-05 (JD)	
3/12/2018	<0.001	<0.001	<0.001			
3/13/2018				<0.001	<0.001	<0.001
9/6/2018	<0.001	<0.001	<0.001	<0.001		<0.001
9/7/2018					<0.001	
3/6/2019	<0.001		<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/7/2019		<0.001		<0.001		<0.001
3/8/2019					<0.001	
9/4/2019	<0.001	<0.001	<0.001	<0.001 (D)	0.00014 (J)	<0.001
3/2/2020	<0.001	<0.001	<0.001	<0.001		<0.001
3/3/2020					0.00012 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/13/2015	0.0002 (J)	<0.001	0.0002 (J)	<0.001	<0.001	<0.001
5/20/2015	0.0002 (J)	<0.001	0.0002 (J)	<0.001	<0.001	<0.001
5/27/2015	0.0002 (J)	<0.001	0.0002 (J)	<0.001	<0.001	<0.001
6/8/2015	9E-05 (J)	<0.001 (D)				
6/9/2015			0.0001 (J)	<0.001	<0.001	<0.001
6/17/2015	7E-05 (J)		0.0001 (J)	8E-05 (J)	<0.001	<0.001
6/24/2015	<0.001	<0.001			<0.001	
6/25/2015			0.0001 (J)	7E-05 (J)		<0.001
6/30/2015	9E-05 (J)	<0.001				
7/1/2015			0.0001 (J)	<0.001	<0.001	<0.001
7/6/2015	<0.001	<0.001				
7/7/2015			9E-05 (J)	0.0001 (J)	<0.001	<0.001
8/12/2015	7E-05 (J)	<0.001	7E-05 (J)			
8/13/2015				8E-05 (J)	<0.001	<0.001
3/2/2016	<0.001	<0.001	<0.001	<0.001		
3/3/2016					<0.001	<0.001
5/3/2016	<0.001	<0.001		<0.001	<0.001	
5/4/2016			<0.001			
5/9/2016						<0.001
7/8/2016	6E-05 (J)		<0.001			
7/11/2016		<0.001		<0.001	<0.001	<0.001
9/7/2016		<0.001				
9/8/2016	<0.001		<0.001			
9/9/2016				<0.001	<0.001	<0.001
10/26/2016	<0.001		<0.001	<0.001		<0.001
10/27/2016		<0.001			<0.001	
1/6/2017		<0.001				
1/9/2017	<0.001		<0.001	<0.001	<0.001	<0.001
3/15/2017			4E-05 (J)			<0.001
3/16/2017	4E-05 (J)	<0.001		0.0001 (J)	5E-05 (J)	
5/18/2017			<0.001	0.0001 (J)	<0.001	<0.001
5/19/2017	<0.001	<0.001				
9/15/2017			<0.001	0.0001 (J)		<0.001
9/18/2017					<0.001	
9/19/2017	<0.001	<0.001				
3/12/2018				<0.001	<0.001	
3/13/2018	<0.001	<0.001	<0.001			<0.001
9/6/2018			<0.001			
9/7/2018				<0.001	<0.001	<0.001
9/11/2018	<0.001	<0.001				
3/7/2019			<0.001		<0.001	<0.001
3/8/2019	<0.001			<0.001		
3/12/2019		<0.001				
9/4/2019						<0.001
9/5/2019	<0.001	<0.001	<0.001	0.00011 (J)	<0.001	
3/3/2020			7.9E-05 (J)	6.5E-05 (J)		
3/4/2020	<0.001	<0.001			<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0004 (J)					
9/17/2014		<0.001	0.0002 (J)	<0.001	<0.001	
9/18/2014						0.0001 (J)
10/4/2014	0.0004 (J)	<0.001	0.0002 (J)	<0.001	<0.001	
10/5/2014						0.0001 (J)
10/21/2014	0.0004 (J)	<0.001	0.0002 (J)	<0.001	<0.001	
10/22/2014						0.0001 (J)
11/5/2014			0.0003 (J)		<0.001	0.0002 (J)
11/11/2014	0.0005 (J)	<0.001		<0.001		
3/3/2015	0.0004 (J)	<0.001	0.0002 (J)	<0.001	<0.001	
3/4/2015						0.0001 (J)
3/18/2015	0.0005 (J)	<0.001	0.0002 (J)	<0.001		
3/19/2015					<0.001	0.0001 (J)
4/6/2015	0.0004 (J)	<0.001				
4/7/2015			0.0002 (J)	<0.001	<0.001	0.0001 (J)
4/23/2015	0.0004 (J)	<0.001	0.0002 (J)	<0.001		
4/24/2015					<0.001	0.0001 (J)
7/29/2015	0.0003 (J)	<0.001	0.0002 (J)	<0.001	<0.001	
7/30/2015						<0.001
3/3/2016	0.002222 (D)					
3/4/2016		<0.001				
3/7/2016			<0.001	<0.001	<0.001	
3/8/2016						<0.001
5/5/2016			<0.001	<0.001		
5/9/2016					<0.001	<0.001
5/10/2016	<0.001	<0.001				
7/13/2016	<0.001		<0.001	<0.001		
7/14/2016		<0.001			<0.001	<0.001
9/12/2016				<0.001	<0.001	<0.001
9/13/2016			<0.001			
9/14/2016		<0.001				
9/15/2016	<0.001					
10/31/2016			<0.001		<0.001	<0.001
11/1/2016		<0.001		<0.001		
11/2/2016	<0.001					
1/11/2017	0.0003 (J)	<0.001		<0.001	<0.001	
1/12/2017			<0.001			<0.001
3/20/2017	0.0003 (J)			<0.001		
3/21/2017		<0.001			<0.001	
3/22/2017						4E-05 (J)
3/23/2017			0.0001 (J)			
5/22/2017				<0.001	<0.001	5E-05 (J)
5/23/2017	0.0003 (J)	<0.001	0.0001 (J)			
9/19/2017						6E-05 (J)
9/20/2017					<0.001	
9/21/2017	0.0002 (J)			<0.001		
9/22/2017		<0.001				
9/25/2017			0.0001 (J)			
3/14/2018	0.00018 (J)	<0.001	<0.001	<0.001	<0.001	<0.001
9/7/2018	0.00016 (J)			<0.001		
9/10/2018					<0.001	<0.001
9/11/2018		<0.001	<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	0.00026 (J)					
3/12/2019		<0.001	<0.001	<0.001	<0.001	<0.001
9/6/2019				<0.001		<0.001 (D)
9/9/2019	6E-05 (J)		<0.001		<0.001	
9/10/2019		<0.001				
3/4/2020	0.00014 (J)				<0.001	
3/5/2020		<0.001		<0.001		<0.001
3/6/2020			7.6E-05 (J)			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

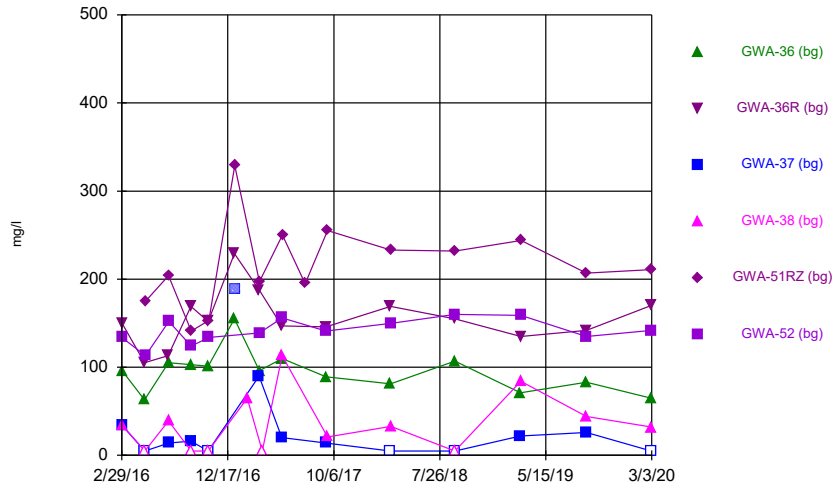
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.001	<0.001
9/18/2014	0.0002 (J)	<0.001	0.0002 (J)		
10/4/2014				<0.001	<0.001
10/5/2014	0.0002 (J)	0.0001 (J)	0.0003 (J)		
10/22/2014	0.0002 (J)	<0.001	0.0002 (J)		
10/23/2014				<0.001	<0.001
11/5/2014	0.0002 (J)	0.0001 (J)			
11/10/2014				<0.001	<0.001
3/4/2015	0.0002 (J)	0.0001 (J)	0.0002 (J)	<0.001	<0.001
3/19/2015	0.0002 (J)	0.0001 (J)			
3/20/2015			0.0002 (J)	<0.001	<0.001
4/8/2015	0.0002 (J)	0.0001 (J)	0.0002 (J)	<0.001	
4/9/2015					<0.001
4/23/2015			0.0002 (J)	<0.001	<0.001
4/24/2015	0.0002 (J)	0.0001 (J)			
7/30/2015	0.0001 (J)	0.0001 (J)	0.0001 (J)	<0.001	<0.001
3/4/2016				<0.001	
3/7/2016		<0.001			
3/8/2016	<0.001				<0.001
3/9/2016			0.0033 (Jo)		
5/4/2016					<0.001
5/5/2016		<0.001		<0.001	
5/6/2016			<0.001		
5/9/2016	0.000353 (J)				
7/12/2016				<0.001	
7/14/2016		<0.001			
7/15/2016	<0.001		<0.001		
7/18/2016					<0.001
9/9/2016	<0.001				
9/12/2016		<0.001			
9/13/2016				<0.001	<0.001
9/14/2016			0.0002 (J)		
10/27/2016	<0.001	<0.001		<0.001	<0.001
11/1/2016			<0.001		
1/12/2017	<0.001				
1/13/2017		<0.001		<0.001	<0.001
1/25/2017			<0.001		
3/16/2017					<0.001
3/20/2017		<0.001		<0.001	
3/21/2017	<0.001				
3/22/2017			0.0001 (J)		
5/19/2017				<0.001	<0.001
5/23/2017	0.0002 (J)	0.0001 (J)			
5/24/2017			0.0001 (J)		
9/19/2017	0.0002 (J)	8E-05 (J)		<0.001	<0.001
9/21/2017			0.0002 (J)		
3/13/2018		0.00017 (J)		<0.001	<0.001
3/14/2018	<0.001		<0.001		
9/7/2018		<0.001			
9/10/2018	<0.001				
9/11/2018			<0.001	<0.001	<0.001
3/8/2019				<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

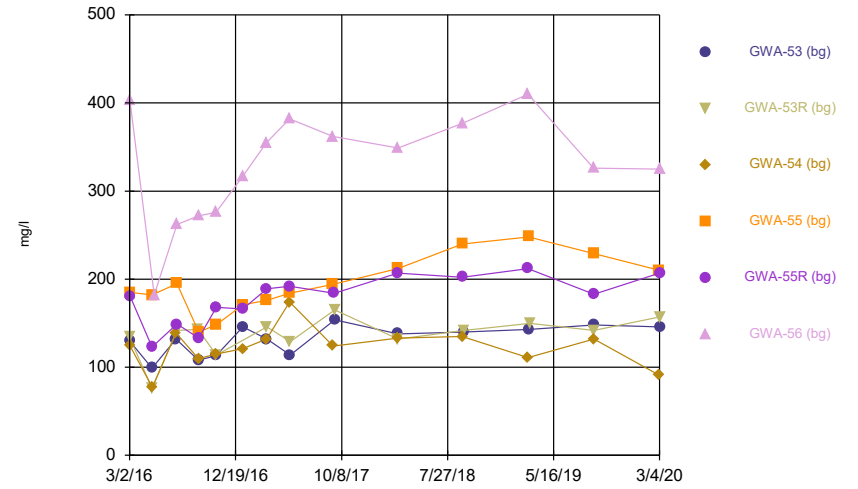
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.001	0.00015 (J)			
3/12/2019			<0.001		
9/5/2019		5.5E-05 (J)		<0.001 (D)	<0.001
9/6/2019	0.0002 (J)		0.0003 (J)		
3/3/2020	7.1E-05 (J)	7.2E-05 (J)		<0.001	<0.001
3/5/2020			0.00018 (J)		

Time Series



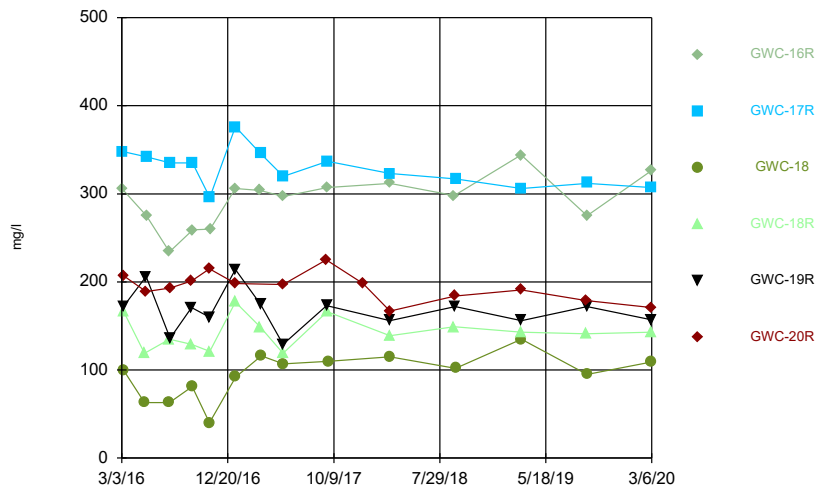
Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



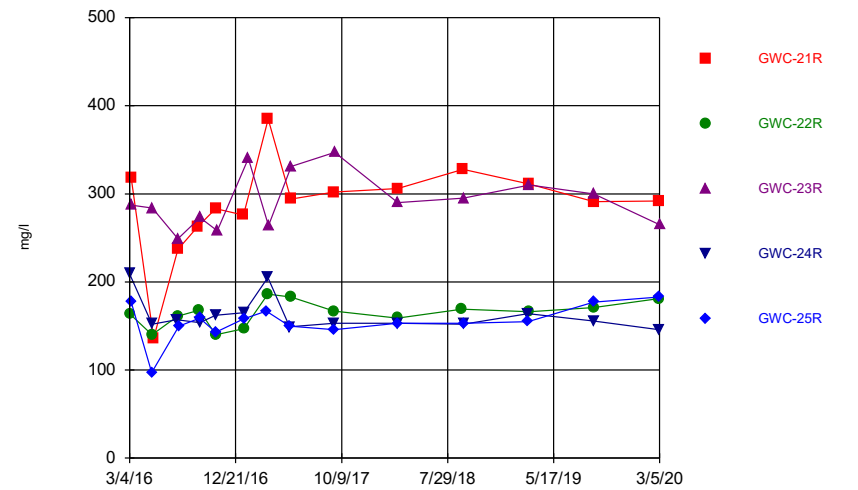
Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:14 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
2/29/2016						134 (D)
3/1/2016	96 (D)	150 (D)	34 (D)			
3/2/2016				34 (D)		
5/2/2016	63 (D)	105 (D)				
5/3/2016			<10 (D)	<10 (D)		
5/4/2016					175 (D)	113 (D)
7/6/2016		113 (D)				
7/7/2016	105 (D)			39 (D)	204 (D)	
7/8/2016			14 (JD)			152 (D)
9/7/2016	103 (D)	169 (D)	16 (JD)			
9/8/2016				<10 (D)	141 (D)	124 (D)
10/25/2016	101 (D)	152 (D)	<10 (D)	<10 (D)		
10/26/2016					153 (D)	134 (D)
1/5/2017	155	229				
1/6/2017			189 (O)		329 (D)	
2/9/2017				65		
3/14/2017		188	90			
3/15/2017	96				197 (D)	139
3/23/2017				<10		
5/16/2017		147	20 (J)			
5/17/2017	110			113		156
5/18/2017					250 (D)	
7/19/2017					195 (D)	
9/15/2017	89	146	14 (J)			141
9/19/2017				21 (J)	255 (D)	
3/12/2018	81	169	<10			
3/13/2018				33	233	150
9/6/2018	107	155	<10	<10		160
9/7/2018					232	
3/6/2019	71 (J)		22 (J)			
3/7/2019		135		84		159
3/8/2019					244	
9/4/2019	83	142	26	44	207	135
3/2/2020	65	170	<10	32		142
3/3/2020					211	

Time Series

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:14 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
3/2/2016	130 (D)	134 (D)	125 (D)	185 (D)		
3/3/2016					181 (D)	403 (D)
5/3/2016	99 (D)	76 (D)		182 (D)	123 (D)	
5/4/2016			77 (D)			
5/9/2016						182 (D)
7/8/2016	132 (D)		139 (D)			
7/11/2016		142 (D)		195 (D)	149 (D)	262 (D)
9/7/2016		143 (D)				
9/8/2016	108 (D)		110 (D)			
9/9/2016				140 (D)	133 (D)	272 (D)
10/26/2016	113 (D)		115 (D)	148 (D)		276 (D)
10/27/2016		114 (D)			168 (D)	
1/9/2017	146		121	171	166	317
3/15/2017			132			355
3/16/2017	132	146		176	189	
5/18/2017			174	184	192	382
5/19/2017	114	129				
9/15/2017			124	194		362
9/18/2017					184	
9/19/2017	154	165				
3/12/2018				212	207	
3/13/2018	138	132	133			349
9/6/2018			135			
9/7/2018				240	202	377
9/11/2018	140	142				
3/7/2019			111		212	410
3/8/2019	143			248		
3/12/2019		150 (J)				
9/4/2019						326
9/5/2019	148	142	132	229	183	
3/3/2020			91	210		
3/4/2020	146	157			207	325

Time Series

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:14 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/3/2016	306 (D)					
3/4/2016		348 (D)				
3/7/2016			100 (D)	167 (D)	172 (D)	
3/8/2016						207 (D)
5/5/2016			63 (D)	119 (D)		
5/9/2016					206 (D)	189 (D)
5/10/2016	275 (D)	342 (D)				
7/13/2016	234 (D)		63 (D)	135 (D)		
7/14/2016		335 (D)			136 (D)	193 (D)
9/12/2016				129 (D)	171 (D)	201 (D)
9/13/2016			81 (D)			
9/14/2016		335 (D)				
9/15/2016	259 (D)					
10/31/2016			40 (D)		160 (D)	215 (D)
11/1/2016		296 (D)		121 (D)		
11/2/2016	260 (D)					
1/11/2017	306	376		177	214	
1/12/2017			92			198
3/20/2017	304			149		
3/21/2017		346			175 (J)	
3/23/2017			116			
5/22/2017				119	129	197
5/23/2017	297	320	107			
9/19/2017						225
9/20/2017					173	
9/21/2017	307			166		
9/22/2017		337				
9/25/2017			110			
12/29/2017						198 (Y)
3/14/2018	312	323	115	139	156	167
9/7/2018	298			149		
9/10/2018					172	184
9/11/2018		317	102			
3/11/2019	344					
3/12/2019		306	135 (J)	143 (J)	156 (J)	191 (J)
9/6/2019				141		179
9/9/2019	275		95		172	
9/10/2019		312				
3/4/2020	326				157	
3/5/2020		307		143		171
3/6/2020			109			

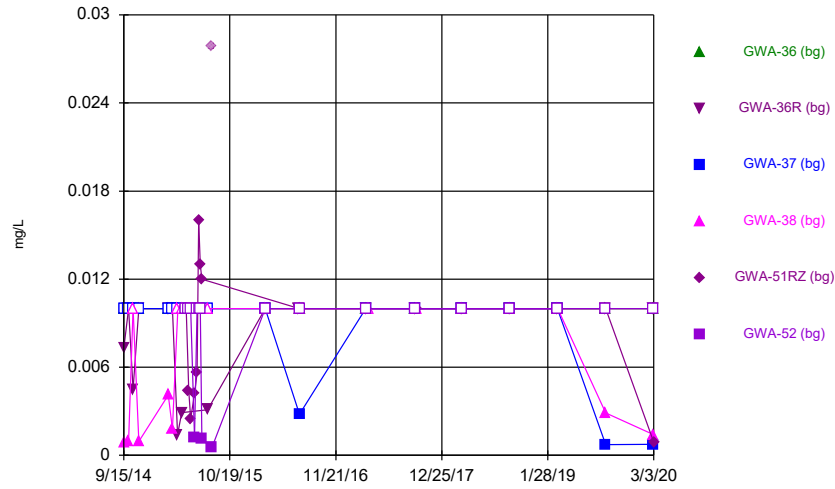
Time Series

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:14 PM

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

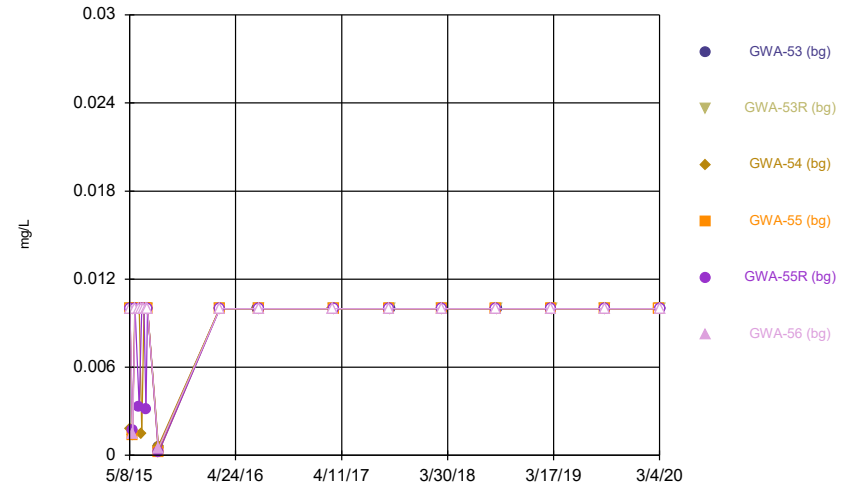
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				209 (D)	
3/7/2016		163 (D)			
3/8/2016	318 (D)				177 (D)
3/9/2016			287 (D)		
5/4/2016					97 (D)
5/5/2016		140 (D)		152 (D)	
5/6/2016			284 (D)		
5/9/2016	136 (D)				
7/12/2016				157 (D)	
7/14/2016		161 (D)			
7/15/2016	237 (D)		249 (D)		
7/18/2016					150 (D)
9/9/2016	263 (D)				
9/12/2016		168 (D)			
9/13/2016				154 (D)	159 (D)
9/14/2016			273 (D)		
10/27/2016	283 (D)	140 (D)		162 (D)	143 (D)
11/1/2016			258 (D)		
1/12/2017	276				
1/13/2017		147 (J)		165	158
1/25/2017			340		
3/16/2017					167
3/20/2017		186		205 (J)	
3/21/2017	385				
3/22/2017			264		
5/19/2017				149	150
5/23/2017	294	183			
5/24/2017			331		
9/19/2017	302	167		153	146
9/21/2017			347		
3/13/2018		159		153	153
3/14/2018	306		290		
9/7/2018		169			
9/10/2018	328				
9/11/2018			295	152	153
3/8/2019				164	155
3/11/2019	311	166			
3/12/2019			310 (J)		
9/5/2019		171		155.5 (D)	177
9/6/2019	291		300		
3/3/2020	292	181		146	183
3/5/2020			265		

Time Series



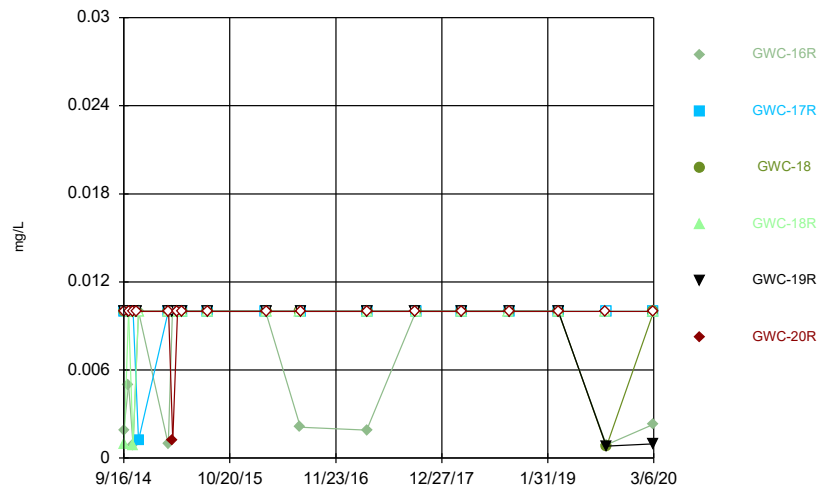
Constituent: Vanadium Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



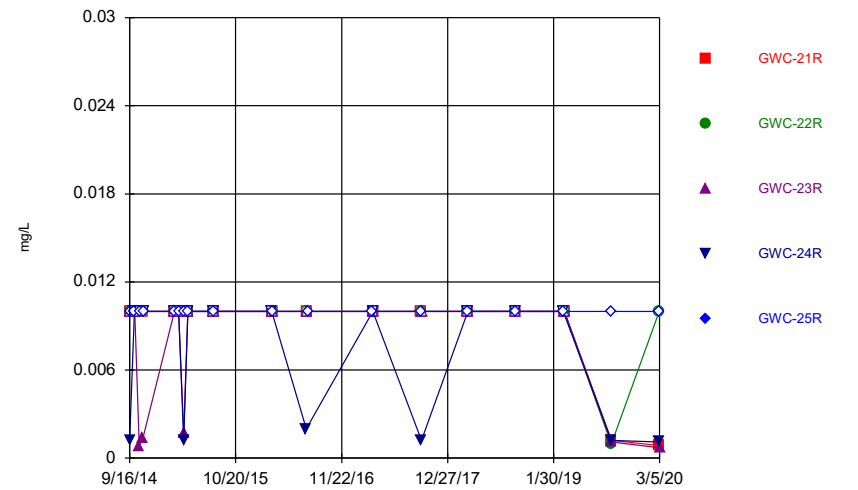
Constituent: Vanadium Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Vanadium Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Vanadium Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.01	0.0073				
9/16/2014			<0.01	0.00085 (J)		
10/3/2014	<0.01	<0.01	<0.01	0.00096 (J)		
10/20/2014	<0.01	0.0045 (J)	<0.01	<0.01		
11/10/2014	<0.01	<0.01	<0.01	0.00095 (J)		
3/2/2015	<0.01	<0.01	<0.01	0.0041 (J)		
3/17/2015	<0.01	<0.01	<0.01	0.0018 (J)		
4/5/2015	<0.01	0.0014 (J)	<0.01			
4/6/2015				<0.01		
4/21/2015	<0.01	0.0029 (J)				
4/22/2015			<0.01	<0.01		
5/8/2015					<0.01	<0.01
5/17/2015					0.0044 (J)	<0.01
5/25/2015					0.0025 (J)	<0.01
6/8/2015					0.0042 (J)	0.0012 (J)
6/18/2015					0.0056	<0.01
6/24/2015					0.016	<0.01
6/30/2015					0.013	<0.01
7/6/2015					0.012	0.0011 (J)
7/28/2015	<0.01	0.0031 (J)	<0.01	<0.01		
8/12/2015					0.0279 (o)	0.000519 (J)
2/29/2016						<0.01
3/1/2016	<0.01	<0.01	<0.01			
3/2/2016				<0.01		
7/6/2016		<0.01				
7/7/2016	<0.01			<0.01	<0.01 (D)	
7/8/2016			0.0028 (J)			<0.01
3/14/2017		<0.01	<0.01			
3/15/2017	<0.01				<0.01 (D)	<0.01
3/23/2017				<0.01		
9/15/2017	<0.01	<0.01	<0.01			<0.01
9/19/2017				<0.01	<0.01 (D)	
3/12/2018	<0.01	<0.01	<0.01			
3/13/2018				<0.01	<0.01	<0.01
9/6/2018	<0.01	<0.01	<0.01	<0.01		<0.01
9/7/2018					<0.01	
3/6/2019	<0.01		<0.01			
3/7/2019		<0.01		<0.01		<0.01
3/8/2019					<0.01	
9/4/2019	<0.01	<0.01	0.00073 (J)	0.00288 (D)	<0.01	<0.01
3/2/2020	<0.01	<0.01	0.00074 (J)	0.0014 (J)		<0.01
3/3/2020					0.00091 (J)	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.01				
5/9/2015	<0.01		0.0018 (J)	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	<0.01		0.0014 (J)	0.0014 (J)	0.0017 (J)	
5/19/2015						0.0015 (J)
5/25/2015	<0.01	<0.01	<0.01			
5/26/2015				<0.01	<0.01	<0.01
6/8/2015	<0.01	<0.01				
6/9/2015			<0.01	<0.01	0.0033 (J)	<0.01
6/17/2015	<0.01		0.0015 (J)	<0.01	<0.01	<0.01
6/18/2015		<0.01				
6/24/2015	<0.01	<0.01				
6/25/2015			<0.01	<0.01	<0.01	<0.01
6/30/2015	<0.01	<0.01				
7/1/2015			<0.01	<0.01	0.0031 (J)	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			<0.01	<0.01	<0.01	<0.01
8/12/2015	0.000525 (J)	0.000172 (J)	0.000656 (J)	0.000246 (J)	0.000187 (J)	0.000497 (J)
3/2/2016	<0.01	<0.01	<0.01	<0.01		
3/3/2016					<0.01	<0.01
7/8/2016	<0.01		<0.01			
7/11/2016		<0.01		<0.01	<0.01	<0.01
3/15/2017			<0.01			<0.01
3/16/2017	<0.01	<0.01		<0.01	<0.01	
9/15/2017			<0.01	<0.01		<0.01
9/18/2017					<0.01	
9/19/2017	<0.01	<0.01				
3/12/2018				<0.01	<0.01	
3/13/2018	<0.01	<0.01	<0.01			<0.01
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		<0.01	<0.01
3/8/2019	<0.01			<0.01		
3/12/2019		<0.01				
9/4/2019						<0.01
9/5/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
3/3/2020			<0.01	<0.01		
3/4/2020	<0.01	<0.01			<0.01	<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

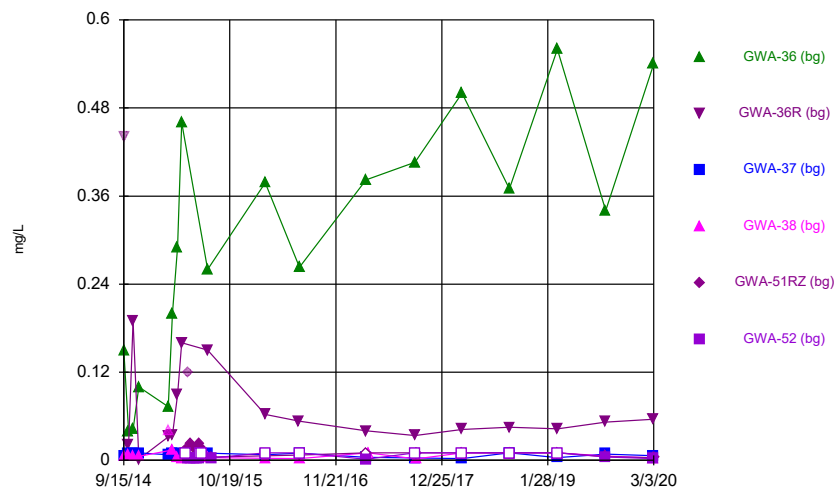
	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0019 (J)					
9/17/2014		<0.01	<0.01	0.001 (J)	<0.01	
9/18/2014						<0.01
10/4/2014	0.005	<0.01	<0.01	<0.01	<0.01	
10/5/2014						<0.01
10/21/2014	0.00089 (J)	<0.01	<0.01	0.00084 (J)	<0.01	
10/22/2014						<0.01
11/5/2014			<0.01		<0.01	<0.01
11/11/2014	<0.01	0.0012 (J)		<0.01		
3/3/2015	0.00093 (J)	<0.01	<0.01	<0.01	<0.01	
3/4/2015						<0.01
3/18/2015	<0.01	<0.01	<0.01	<0.01		
3/19/2015					<0.01	0.0012 (J)
4/6/2015	<0.01	<0.01				
4/7/2015			<0.01	<0.01	<0.01	<0.01
4/23/2015	<0.01	<0.01	<0.01	<0.01		
4/24/2015					<0.01	<0.01
7/29/2015	<0.01	<0.01	<0.01	<0.01	<0.01	
7/30/2015						<0.01
3/3/2016	<0.01 (D)					
3/4/2016		<0.01				
3/7/2016			<0.01	<0.01	<0.01	
3/8/2016						<0.01
7/13/2016	0.0021 (J)		<0.01	<0.01		
7/14/2016		<0.01			<0.01	<0.01
3/20/2017	0.0019 (J)			<0.01		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01			
9/19/2017						<0.01
9/20/2017					<0.01	
9/21/2017	<0.01			<0.01		
9/22/2017		<0.01				
9/25/2017			<0.01			
3/14/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/7/2018	<0.01			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	<0.01			
3/11/2019	<0.01					
3/12/2019		<0.01	<0.01	<0.01	<0.01	<0.01
9/6/2019				<0.01		<0.01 (D)
9/9/2019	0.00091 (J)		0.00078 (J)		0.00081 (J)	
9/10/2019		<0.01				
3/4/2020	0.0023 (J)				0.00096 (J)	
3/5/2020		<0.01		<0.01		<0.01
3/6/2020			<0.01			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

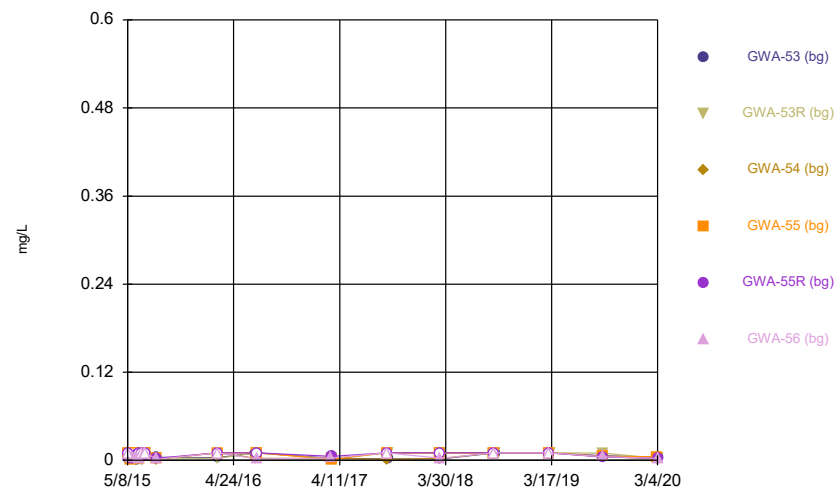
	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				0.0012 (J)	<0.01
9/18/2014	<0.01	<0.01	<0.01		
10/4/2014				<0.01	<0.01
10/5/2014	<0.01	<0.01	<0.01		
10/22/2014	<0.01	<0.01	0.00083 (J)		
10/23/2014				<0.01	<0.01
11/5/2014	<0.01	<0.01	0.0014 (J)		
11/10/2014				<0.01	<0.01
3/4/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2015	<0.01	<0.01			
3/20/2015			<0.01	<0.01	<0.01
4/8/2015	<0.01	<0.01	0.0017 (J)	0.0012 (J)	
4/9/2015					<0.01
4/23/2015			<0.01	<0.01	<0.01
4/24/2015	<0.01	<0.01			
7/30/2015	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2016				<0.01	
3/7/2016		<0.01			
3/8/2016	<0.01				<0.01
3/9/2016			<0.01		
7/12/2016				0.002 (J)	
7/14/2016		<0.01			
7/15/2016	<0.01		<0.01		
7/18/2016					<0.01
3/16/2017					<0.01
3/20/2017		<0.01		<0.01	
3/21/2017	<0.01				
3/22/2017			<0.01		
9/19/2017	<0.01	<0.01		0.0012 (J)	<0.01
9/21/2017			<0.01		
3/13/2018		<0.01		<0.01	<0.01
3/14/2018	<0.01		<0.01		
9/7/2018		<0.01			
9/10/2018	<0.01				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01
3/11/2019	<0.01	<0.01			
3/12/2019			<0.01		
9/5/2019		0.00094 (J)		0.0012 (JD)	<0.01
9/6/2019	0.0012 (J)		0.0011 (J)		
3/3/2020	0.00085 (J)	<0.01		0.0011 (J)	<0.01
3/5/2020			0.00071 (J)		

Time Series



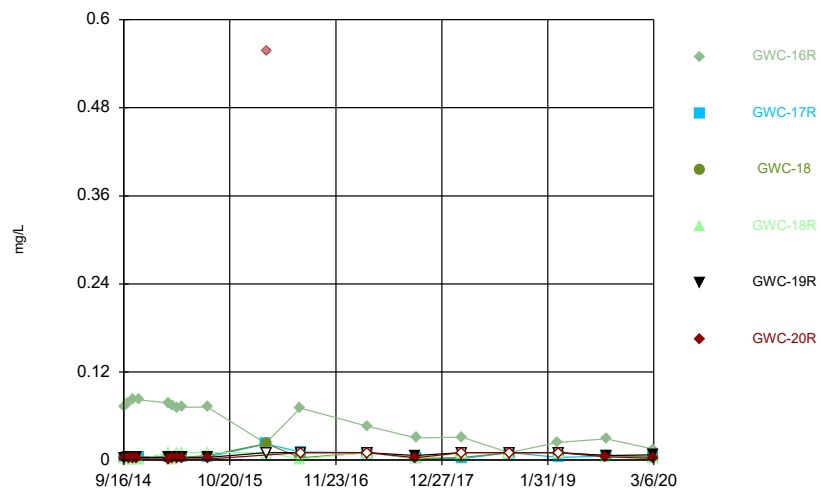
Constituent: Zinc Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



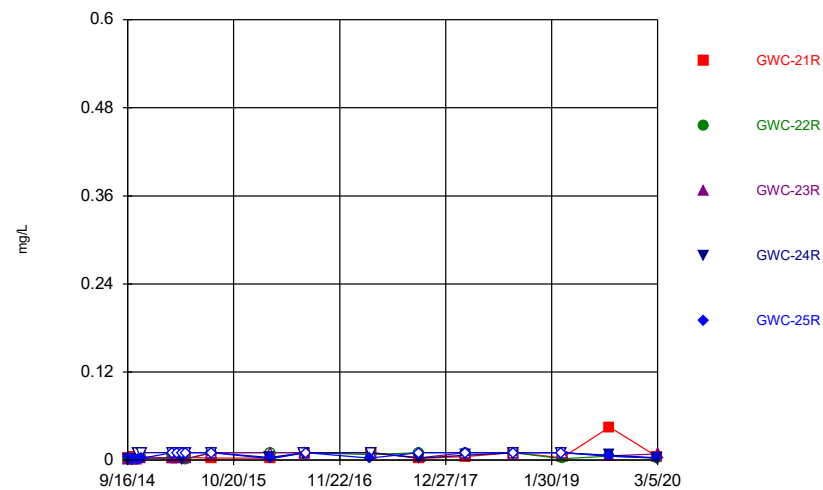
Constituent: Zinc Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Zinc Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series



Constituent: Zinc Analysis Run 4/16/2020 1:14 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	0.15	0.44 (o)				
9/16/2014			0.0062	0.0054		
10/3/2014	0.04	0.021	0.0085	0.007		
10/20/2014	0.042	0.19	0.0087	0.0052		
11/10/2014	0.1	0.0014 (J)	0.01	0.0054		
3/2/2015	0.073	0.032	0.0077	0.041 (o)		
3/17/2015	0.2	0.034	0.0086	0.014		
4/5/2015	0.29	0.089	0.0098			
4/6/2015				0.0044		
4/21/2015	0.46	0.16				
4/22/2015			0.0049	0.0023 (J)		
5/8/2015					0.015	<0.01
5/17/2015					0.12 (o)	0.0017 (J)
5/25/2015					0.023	0.003
6/8/2015					0.016	0.0025
6/18/2015					0.016	0.0019 (J)
6/24/2015					0.022	0.0028
6/30/2015					0.017	<0.01
7/6/2015					0.01	<0.01
7/28/2015	0.26	0.15	0.0099	0.0035		
8/12/2015					0.0047 (BJ)	0.0033 (BJ)
2/29/2016						<0.01
3/1/2016	0.378	0.0627	0.00756 (J)			
3/2/2016				0.0029 (J)		
7/6/2016		0.0532				
7/7/2016	0.263			0.0023 (J)	0.0073 (JD)	
7/8/2016			0.0098 (J)			<0.01
3/14/2017		0.0401	0.0042 (J)			
3/15/2017	0.382				<0.01 (D)	0.0013 (J)
3/23/2017				<0.01		
9/15/2017	0.406	0.0338	0.0032 (J)			<0.01
9/19/2017				0.002 (J)	<0.01 (D)	
3/12/2018	0.5	0.042	0.0025 (J)			
3/13/2018				<0.01	<0.01	<0.01
9/6/2018	0.37	0.045	<0.01	<0.01		<0.01
9/7/2018				<0.01		
3/6/2019	0.56		0.0035 (J)			
3/7/2019		0.043		<0.01		<0.01
3/8/2019					<0.01	
9/4/2019	0.34	0.052	0.0086 (J)	0.00565 (JD)	0.0051 (J)	0.0045 (J)
3/2/2020	0.54	0.056	0.0063 (J)	0.0032 (J)		0.0024 (J)
3/3/2020					0.0035 (J)	

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		0.0022 (J)				
5/9/2015	0.0023 (J)		<0.01	<0.01	<0.01	<0.01
5/17/2015		<0.01				
5/18/2015	0.0034		0.0019 (J)	0.0016 (J)	0.0033	
5/19/2015						0.0045
5/25/2015	<0.01	0.0022 (J)	0.0022 (J)			
5/26/2015				<0.01	0.0022 (J)	0.0038
6/8/2015	0.0015 (J)	0.0015 (J)				
6/9/2015			0.0015 (J)	0.0026	0.0082	0.0037
6/17/2015	<0.01		0.0035	0.0017 (J)	<0.01	0.0018 (J)
6/18/2015		0.0026				
6/24/2015	<0.01	0.0015 (J)				
6/25/2015			<0.01	<0.01	<0.01	<0.01
6/30/2015	<0.01	0.0015 (J)				
7/1/2015			<0.01	<0.01	0.0064	<0.01
7/6/2015	<0.01	<0.01				
7/7/2015			<0.01	<0.01	<0.01	<0.01
8/12/2015	0.004 (BJ)	0.0031 (BJ)	0.0015 (BJ)			
8/13/2015				0.002 (BJ)	0.0028 (BJ)	0.0017 (BJ)
3/2/2016	0.0035 (J)	0.0028 (J)	<0.01	<0.01		
3/3/2016					<0.01	<0.01
7/8/2016	<0.01		0.0029 (J)			
7/11/2016		<0.01		<0.01	<0.01	0.0018 (J)
3/15/2017			0.0024 (J)			0.0034 (J)
3/16/2017	0.0029 (J)	0.0018 (J)		0.0015 (J)	0.0054 (J)	
9/15/2017			0.0016 (J)	<0.01		<0.01
9/18/2017					<0.01	
9/19/2017	0.0018 (J)	<0.01				
3/12/2018				<0.01	<0.01	
3/13/2018	0.0021 (J)	<0.01	0.0023 (J)			0.0029 (J)
9/6/2018			<0.01			
9/7/2018				<0.01	<0.01	<0.01
9/11/2018	<0.01	<0.01				
3/7/2019			<0.01		<0.01	<0.01
3/8/2019	<0.01			<0.01		
3/12/2019		<0.01				
9/4/2019						0.0052 (J)
9/5/2019	0.0064 (J)	0.0098 (J)	0.0048 (J)	0.0056 (J)	0.0045 (J)	
3/3/2020			0.0024 (J)	0.005 (J)		
3/4/2020	0.004 (J)	0.0027 (J)			0.0028 (J)	0.0029 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.072					
9/17/2014		0.0028	0.0035	0.002 (J)	0.0026	
9/18/2014						0.0023 (J)
10/4/2014	0.078	0.0038	0.0032	0.001 (J)	0.0034	
10/5/2014						0.0025
10/21/2014	0.083	0.0043	0.0028	0.00082 (J)	0.0037	
10/22/2014						0.0018 (J)
11/5/2014			0.004		0.0035	0.0019 (J)
11/11/2014	0.082	0.0041		0.00076 (J)		
3/3/2015	0.078	0.0042	0.004	<0.01	0.0036	
3/4/2015						0.0016 (J)
3/18/2015	0.075	0.0046	0.0024 (J)	0.0016 (J)		
3/19/2015					0.0035	0.0025
4/6/2015	0.071	0.0043				
4/7/2015			0.0055	<0.01	0.0039	0.0026
4/23/2015	0.072	0.0047	0.0035	<0.01		
4/24/2015					0.0034	0.0017 (J)
7/29/2015	0.072	0.0039	0.0062	<0.01	0.0038	
7/30/2015						0.0017 (J)
3/3/2016	0.0227 (D)					
3/4/2016		0.0219 (J)				
3/7/2016			0.0225 (J)	<0.01	<0.01	
3/8/2016						0.557 (o)
7/13/2016	0.0709		0.0031 (J)	0.0013 (J)		
7/14/2016		0.0111			<0.01	<0.01
3/20/2017	0.0465			<0.01		
3/21/2017		<0.01			<0.01	
3/22/2017						<0.01
3/23/2017			<0.01			
9/19/2017						0.0031 (J)
9/20/2017					0.0062 (J)	
9/21/2017	0.0302			0.0018 (J)		
9/22/2017		0.0023 (J)				
9/25/2017			0.002 (J)			
3/14/2018	0.031	0.0021 (J)	0.0036 (J)	<0.01	<0.01	<0.01
9/7/2018	<0.01			<0.01		
9/10/2018					<0.01	<0.01
9/11/2018		<0.01	<0.01			
3/11/2019	0.024					
3/12/2019		0.0038 (J)	<0.01	<0.01	<0.01	<0.01
9/6/2019				0.0046 (J)		0.00455 (JD)
9/9/2019	0.029		0.0063 (J)		0.0062 (J)	
9/10/2019		0.0055 (J)				
3/4/2020	0.015				0.0072 (J)	
3/5/2020		0.0035 (J)		0.0024 (J)		0.0023 (J)
3/6/2020			0.0045 (J)			

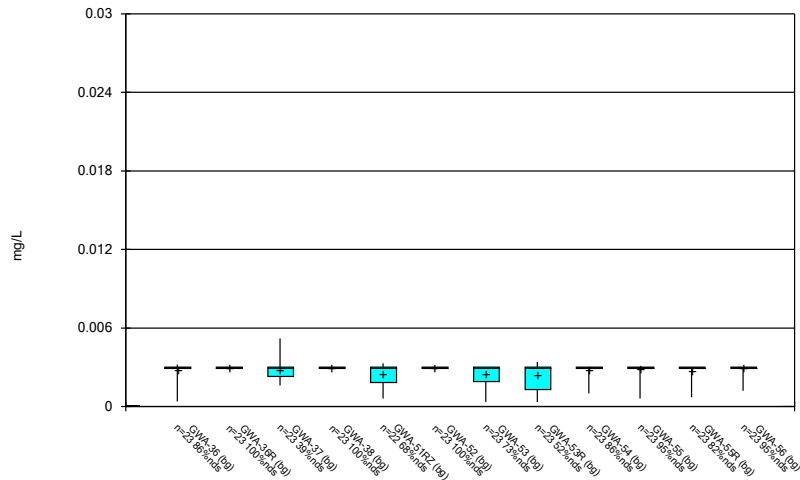
Time Series

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 1:14 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				0.00054 (J)	0.004
9/18/2014	0.0033	0.00089 (J)	0.0013 (J)		
10/4/2014				0.0008 (J)	0.0011 (J)
10/5/2014	0.0036	0.0016 (J)	0.00085 (J)		
10/22/2014	0.0038	0.0017 (J)	0.0014 (J)		
10/23/2014				<0.01	0.0011 (J)
11/5/2014	0.0046	0.0038	0.0022 (J)		
11/10/2014				<0.01	0.0028
3/4/2015	0.0029	0.002 (J)	0.0033	<0.01	<0.01
3/19/2015	0.0027	0.0025			
3/20/2015			0.002 (J)	<0.01	<0.01
4/8/2015	0.0039	0.0018 (J)	0.004	0.0016 (J)	
4/9/2015					<0.01
4/23/2015			0.002 (J)	<0.01	<0.01
4/24/2015	0.0035	0.0016 (J)			
7/30/2015	0.0027	<0.01	<0.01	<0.01	<0.01
3/4/2016				0.00374 (J)	
3/7/2016		<0.01			
3/8/2016	0.00273 (J)				0.00198 (J)
3/9/2016			<0.01		
7/12/2016				<0.01	
7/14/2016		<0.01			
7/15/2016	<0.01		<0.01		
7/18/2016					<0.01
3/16/2017					0.0026 (J)
3/20/2017		0.0075 (J)		<0.01	
3/21/2017	<0.01				
3/22/2017			<0.01		
9/19/2017	0.0022 (J)	<0.01		0.0028 (J)	<0.01
9/21/2017			0.0034 (J)		
3/13/2018		<0.01		0.0068 (J)	<0.01
3/14/2018	0.0049 (J)		<0.01		
9/7/2018		<0.01			
9/10/2018	<0.01				
9/11/2018			<0.01	<0.01	<0.01
3/8/2019				<0.01	<0.01
3/11/2019	0.0034 (J)	0.0021 (J)			
3/12/2019			<0.01		
9/5/2019		0.0053 (J)		0.00675 (JD)	0.0053 (J)
9/6/2019	0.045		0.0059 (J)		
3/3/2020	0.0044 (J)	0.0029 (J)		0.0033 (J)	0.0027 (J)
3/5/2020			0.0084 (J)		

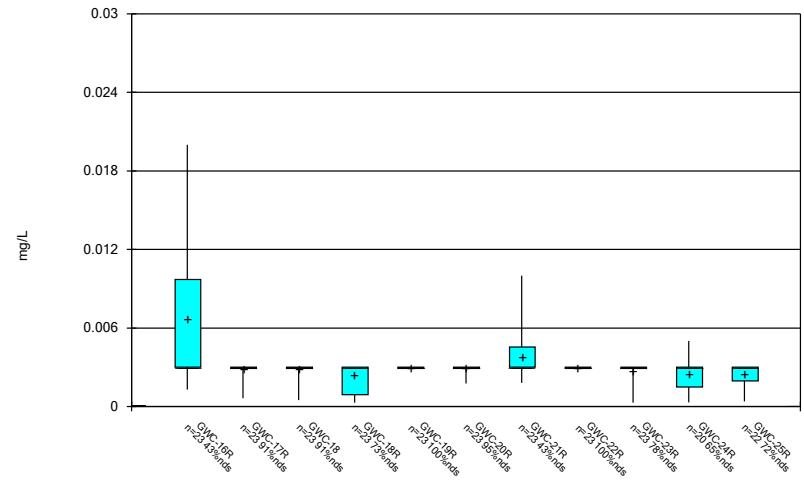
FIGURE B.

Box & Whiskers Plot



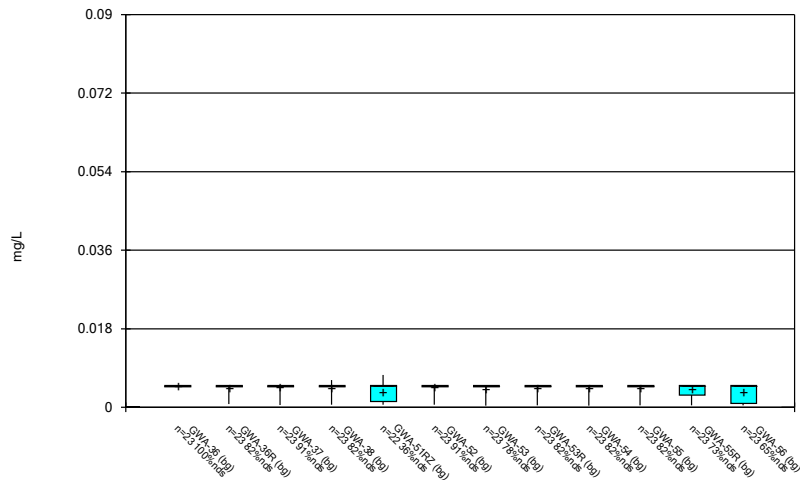
Constituent: Antimony Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



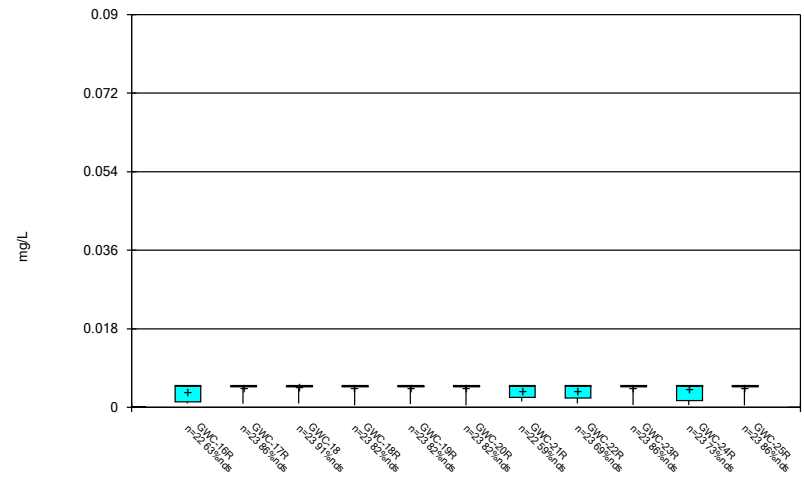
Constituent: Antimony Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



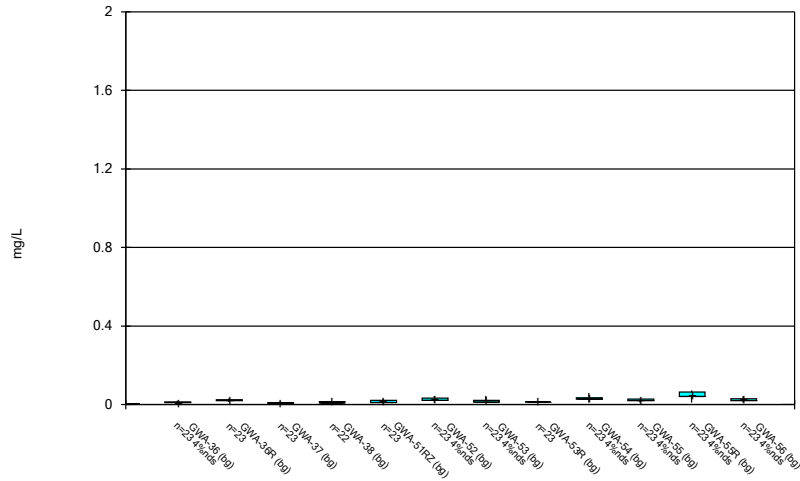
Constituent: Arsenic Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



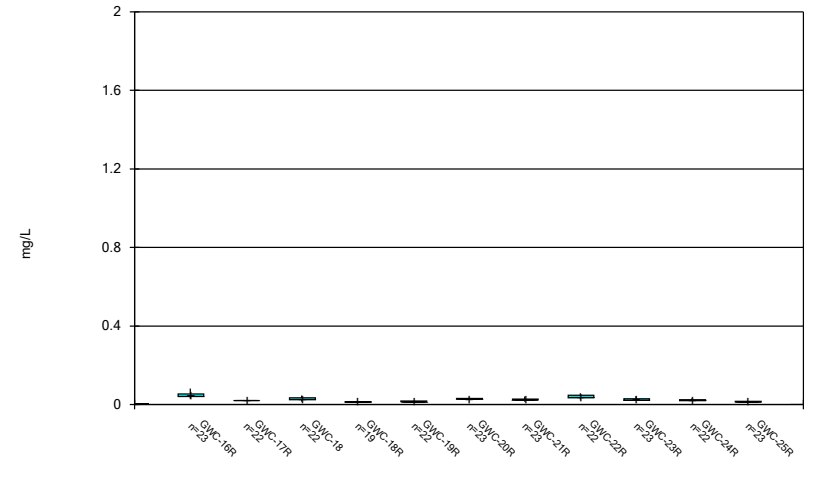
Constituent: Arsenic Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



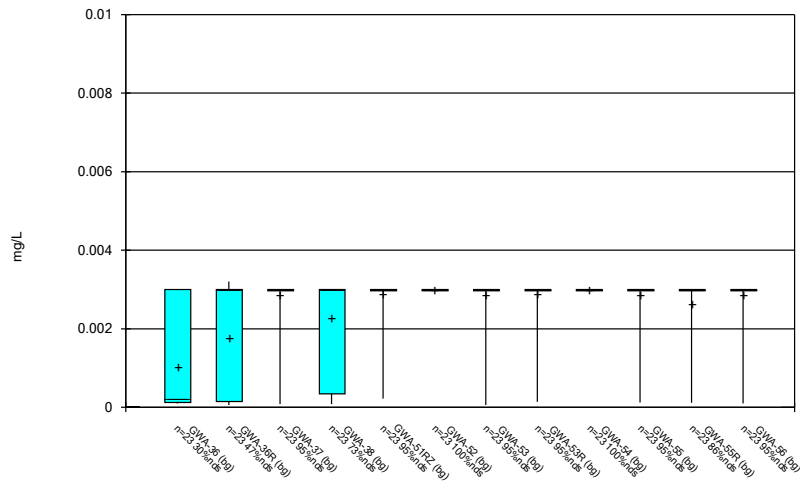
Constituent: Barium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



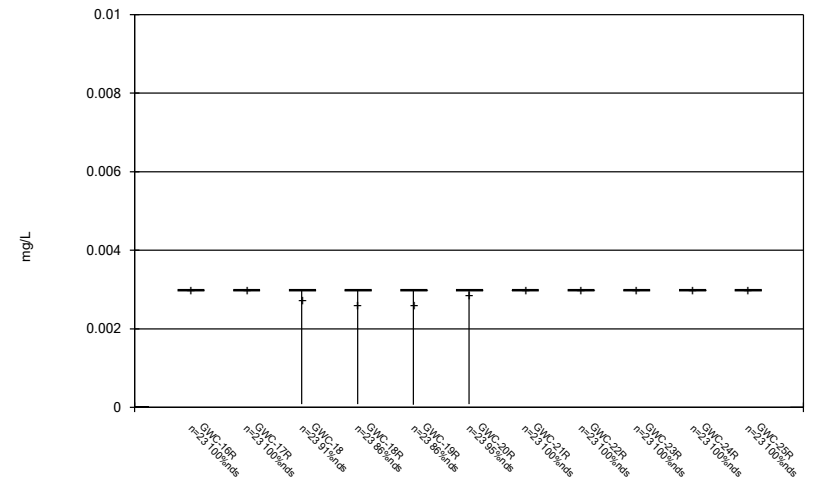
Constituent: Barium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



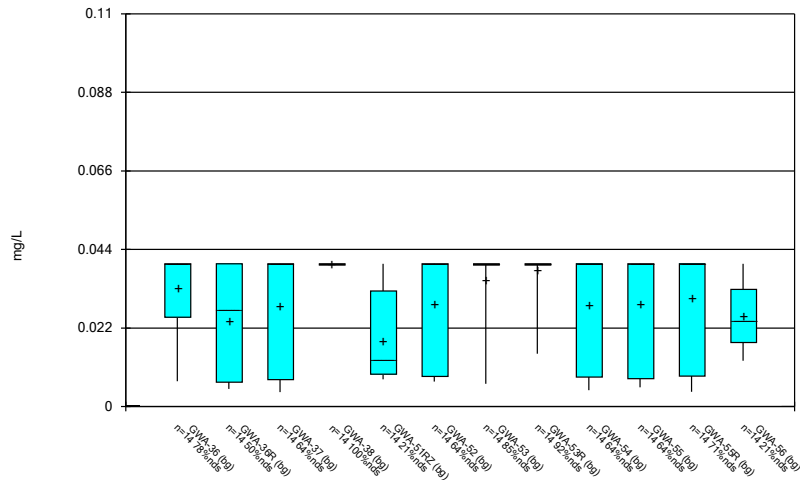
Constituent: Beryllium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



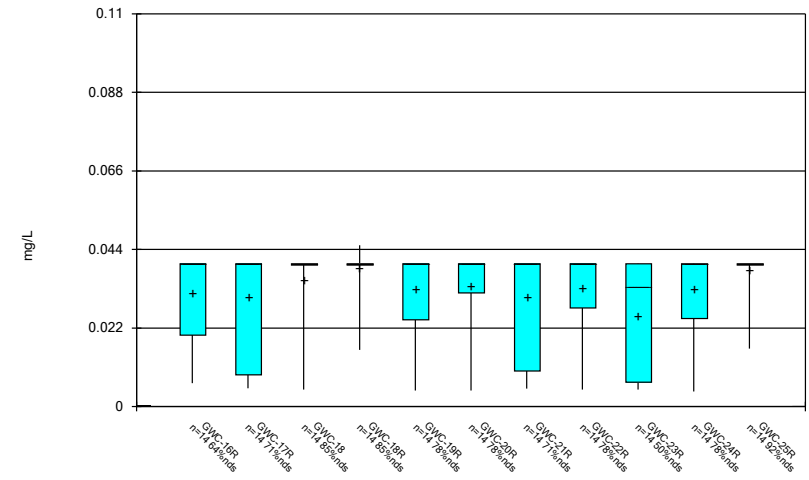
Constituent: Beryllium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



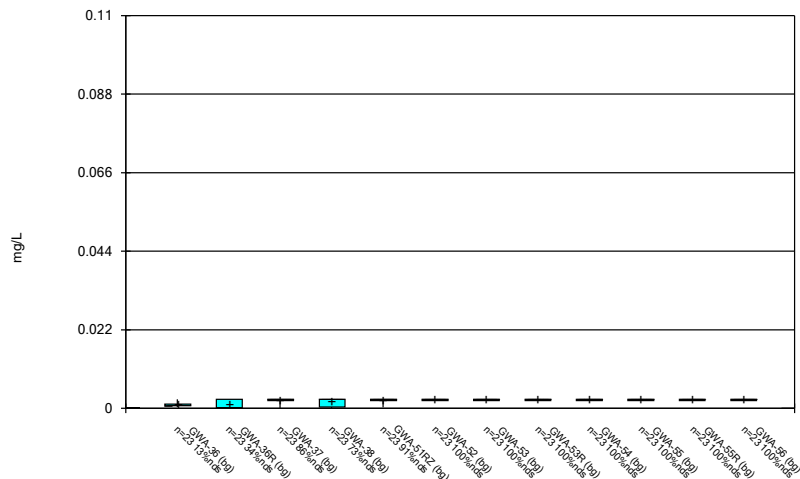
Constituent: Boron Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



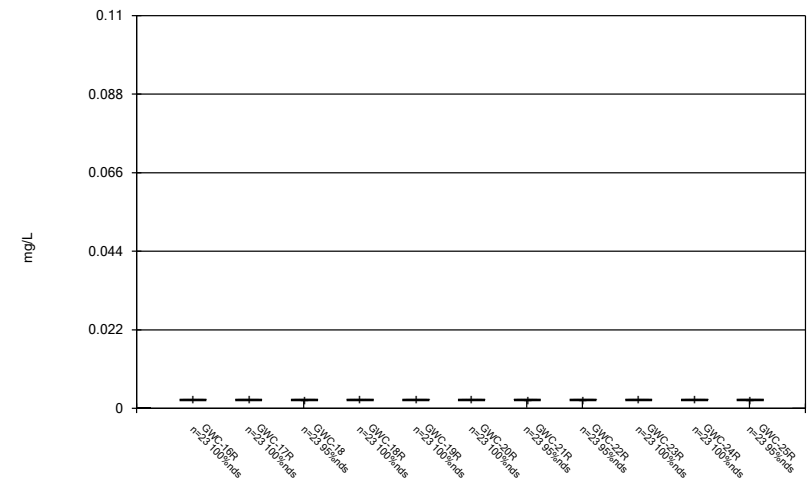
Constituent: Boron Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



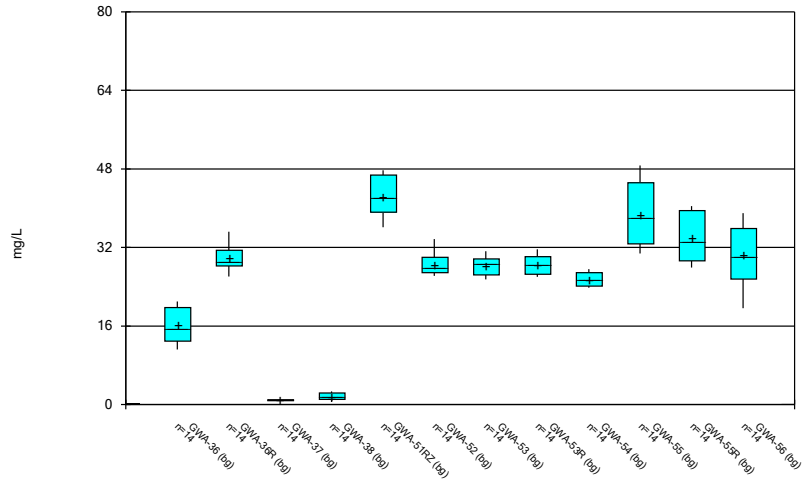
Constituent: Cadmium Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



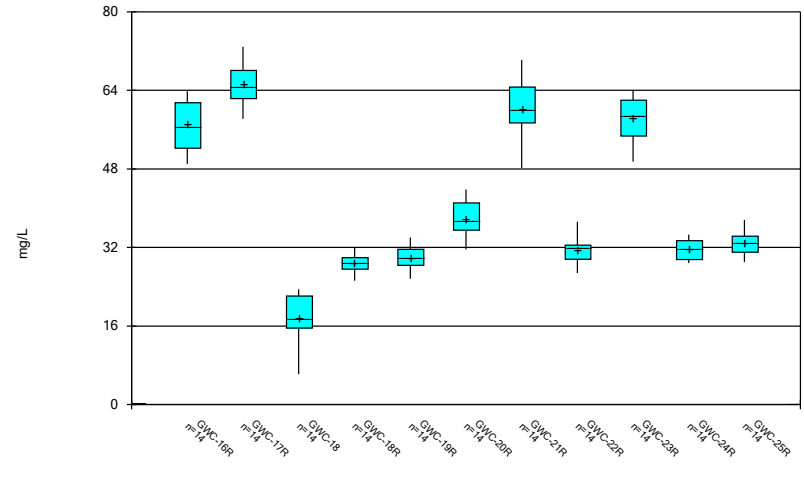
Constituent: Cadmium Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



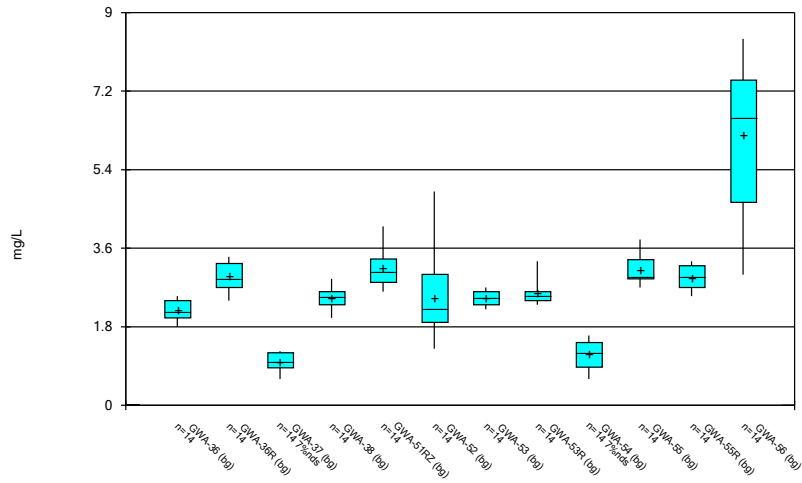
Constituent: Calcium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



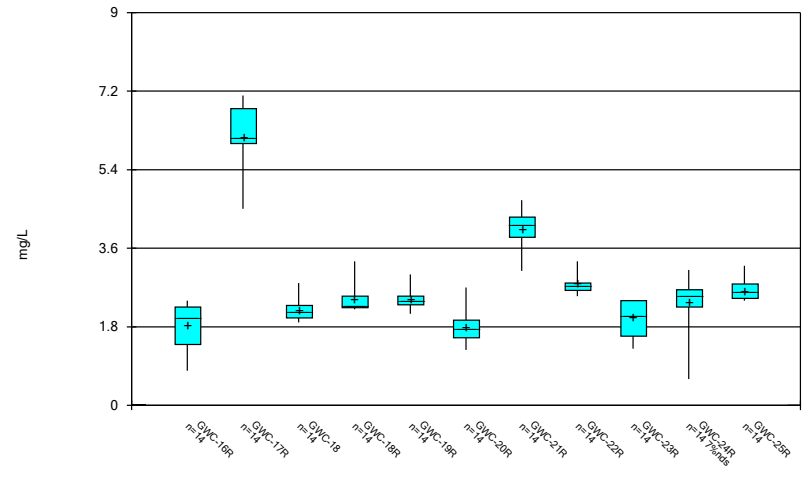
Constituent: Calcium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



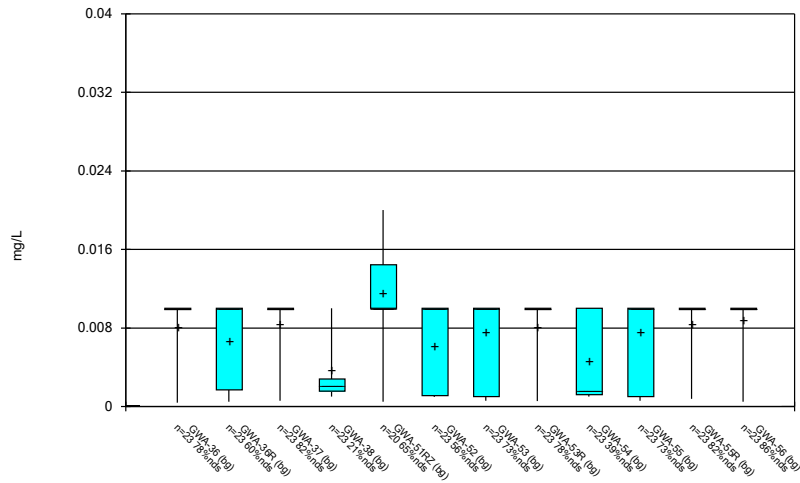
Constituent: Chloride Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



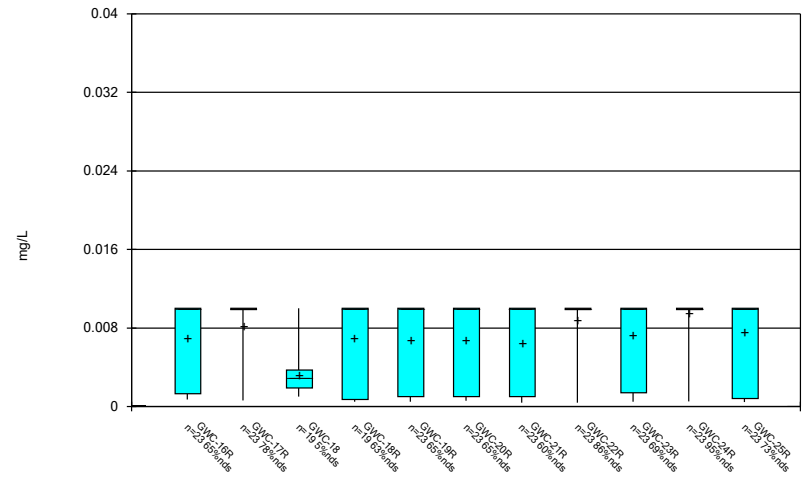
Constituent: Chloride Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



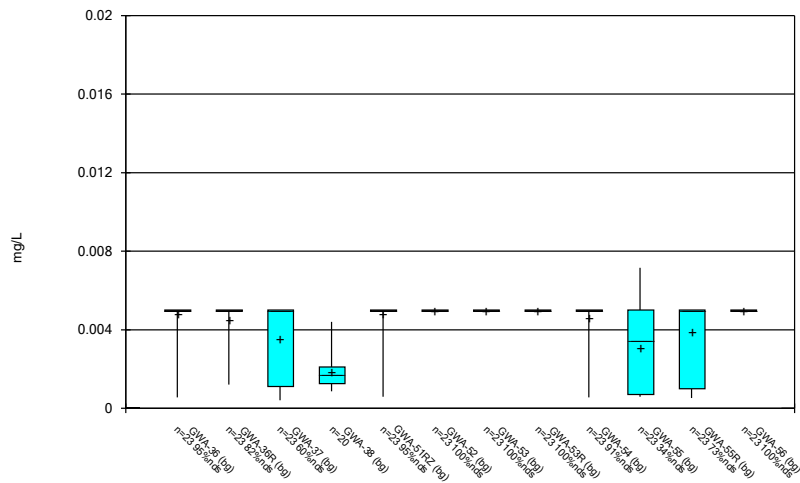
Constituent: Chromium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



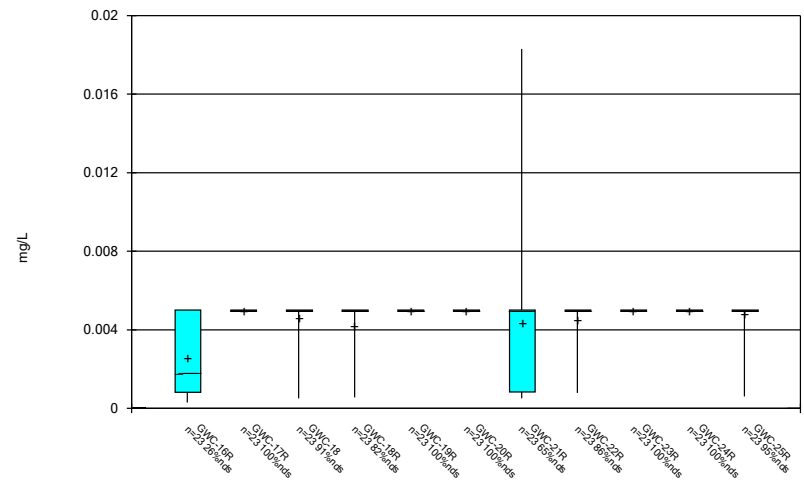
Constituent: Chromium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



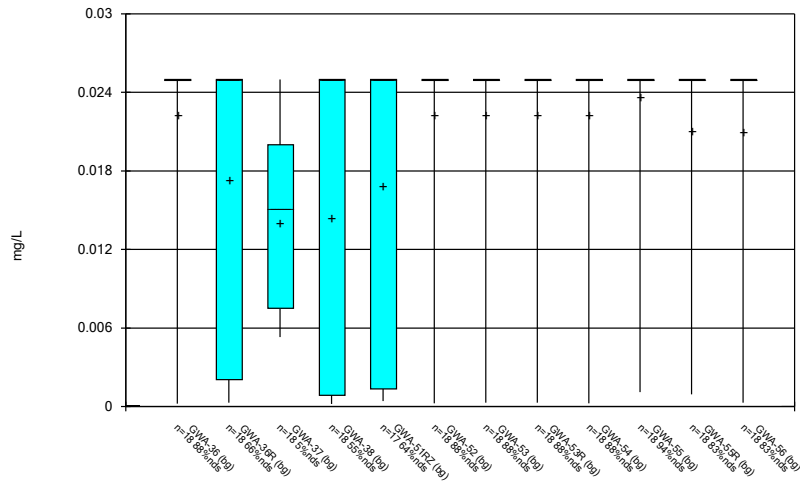
Constituent: Cobalt Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



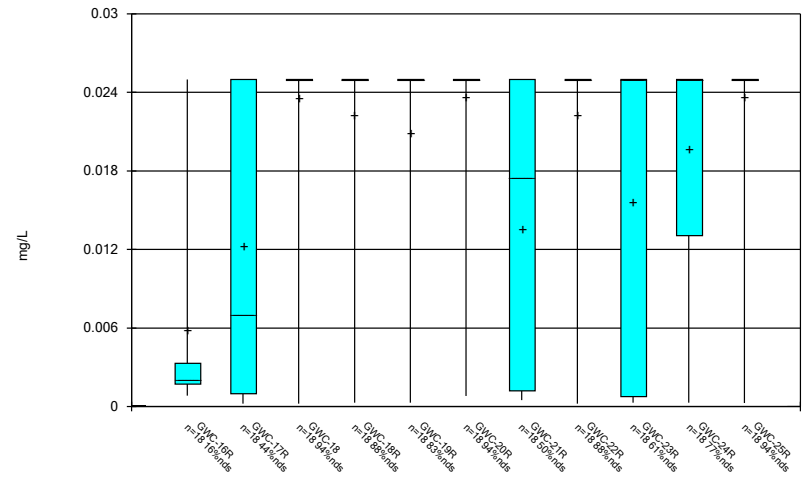
Constituent: Cobalt Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



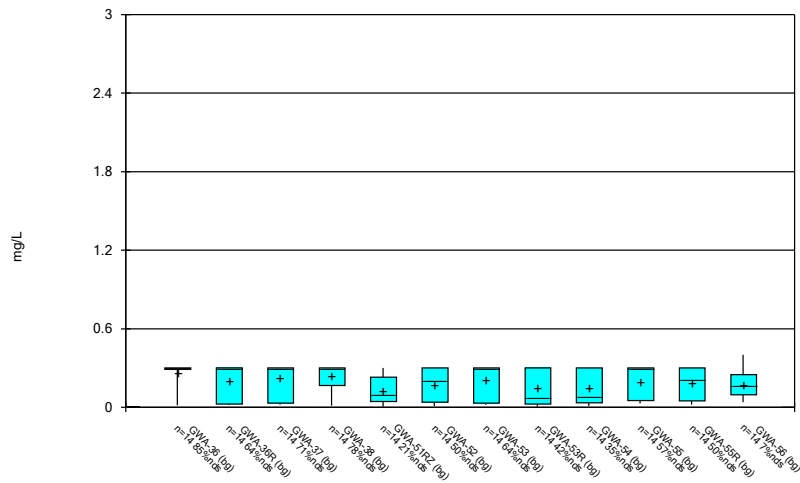
Constituent: Copper Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



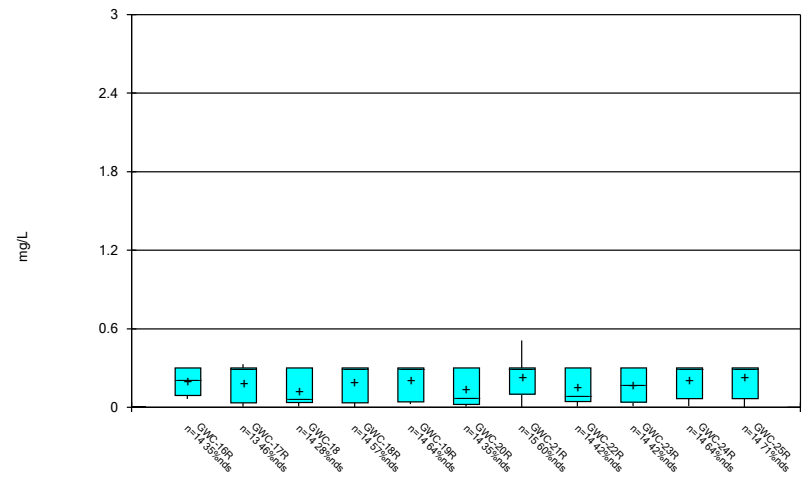
Constituent: Copper Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



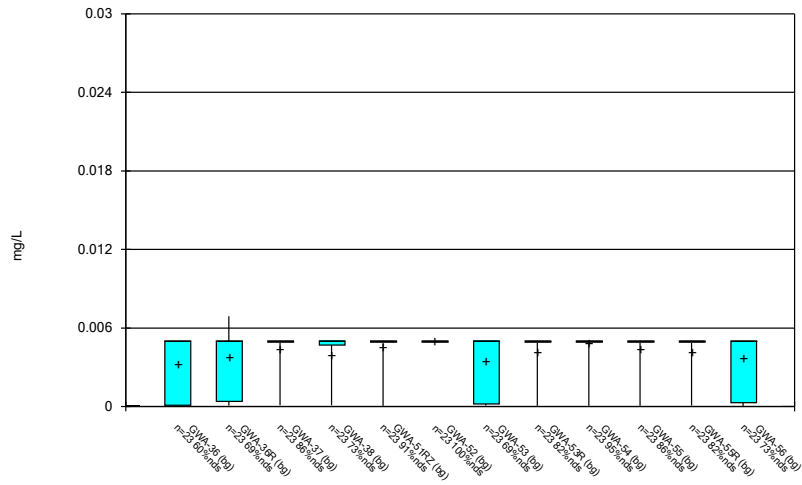
Constituent: Fluoride Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



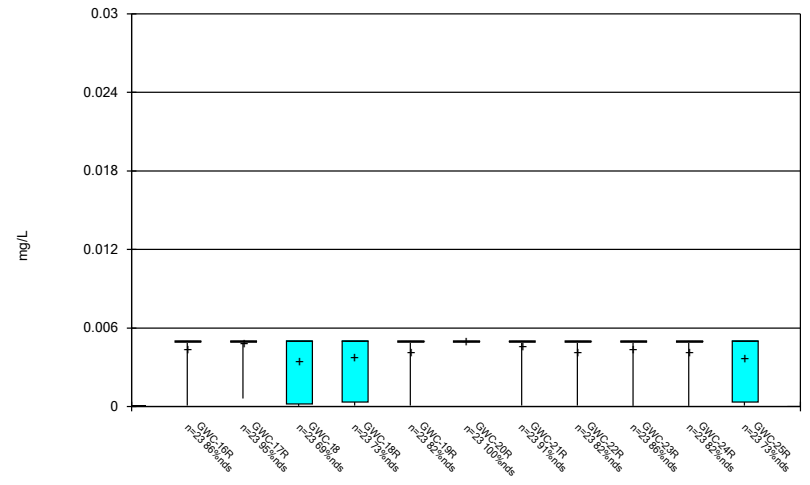
Constituent: Fluoride Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



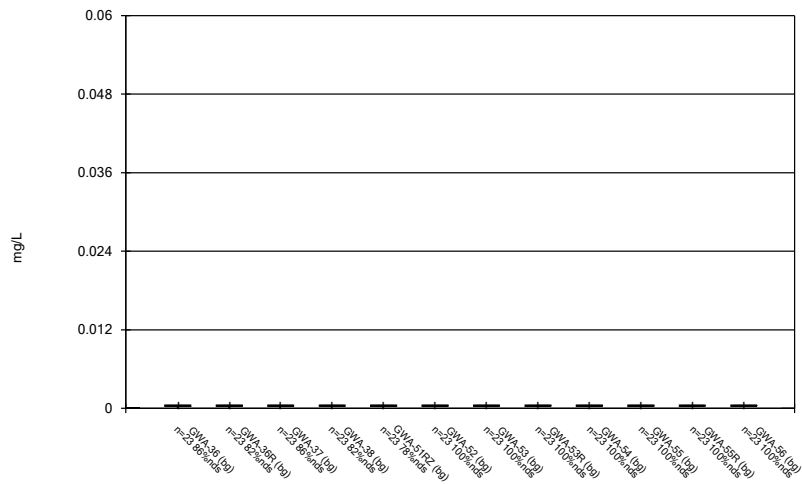
Constituent: Lead Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



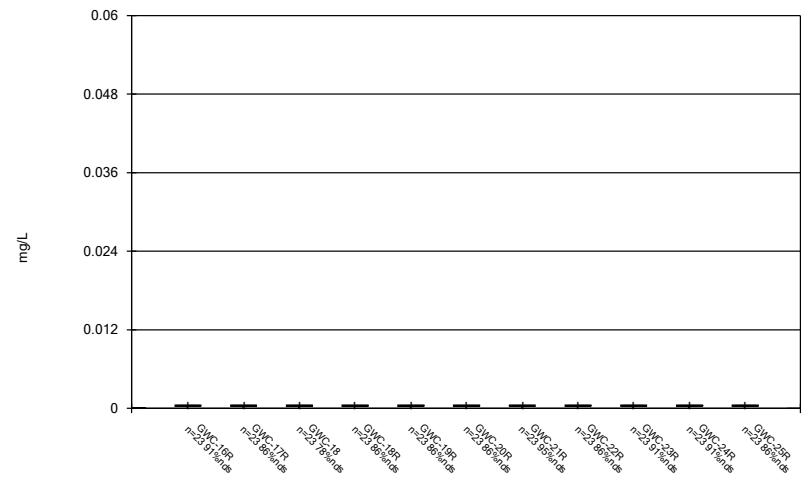
Constituent: Lead Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



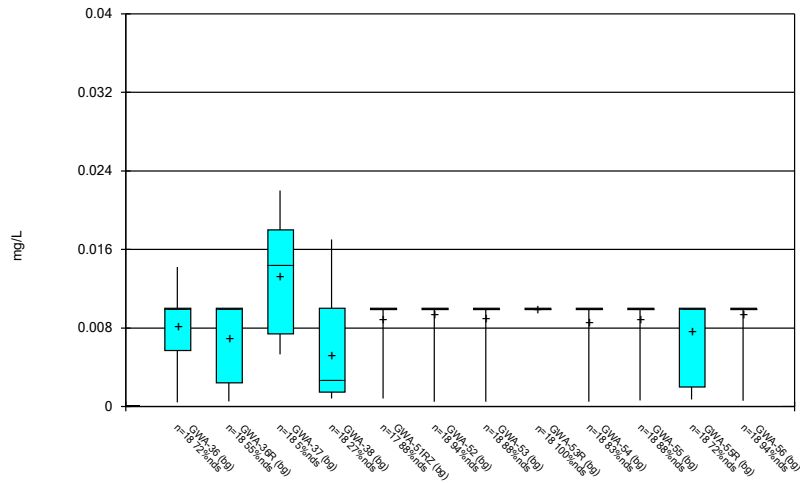
Constituent: Mercury Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



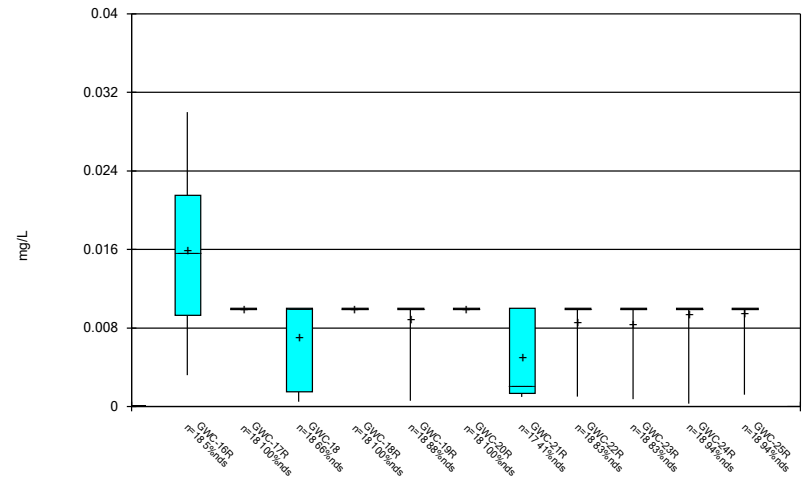
Constituent: Mercury Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



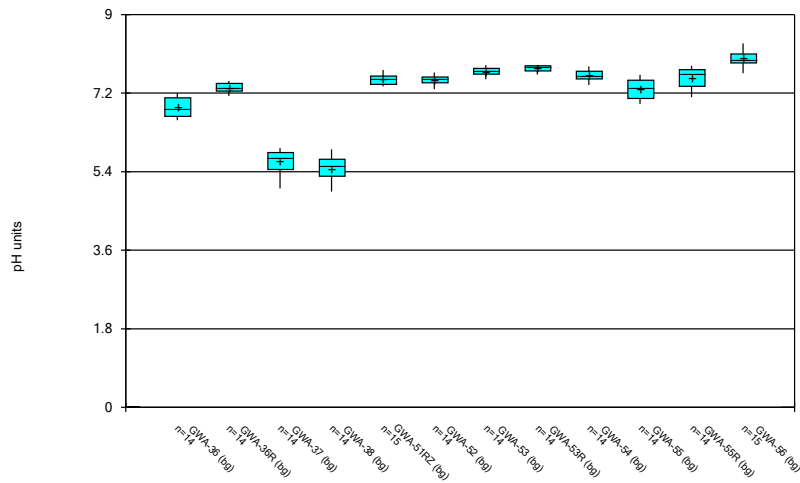
Constituent: Nickel Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



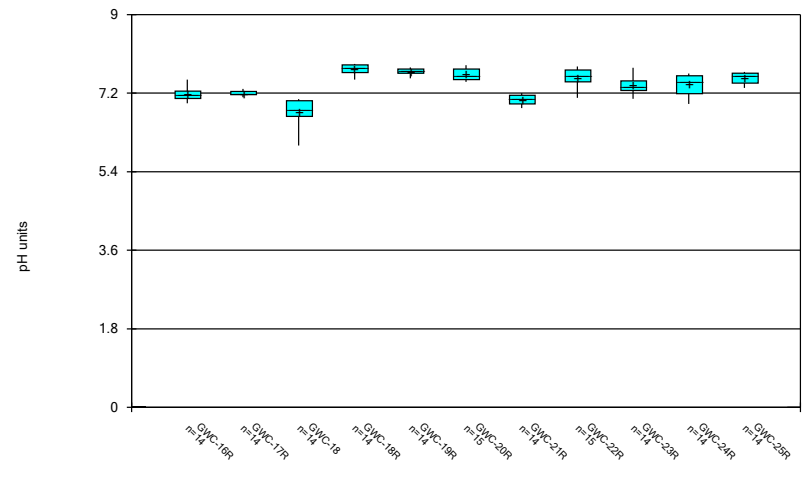
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



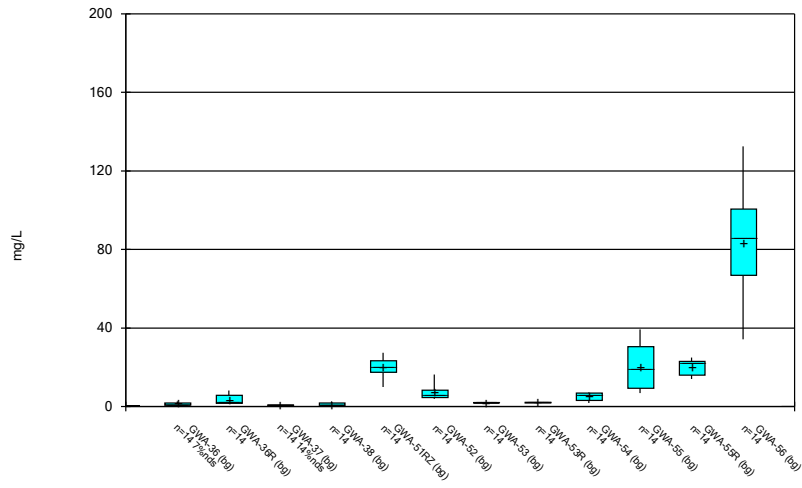
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



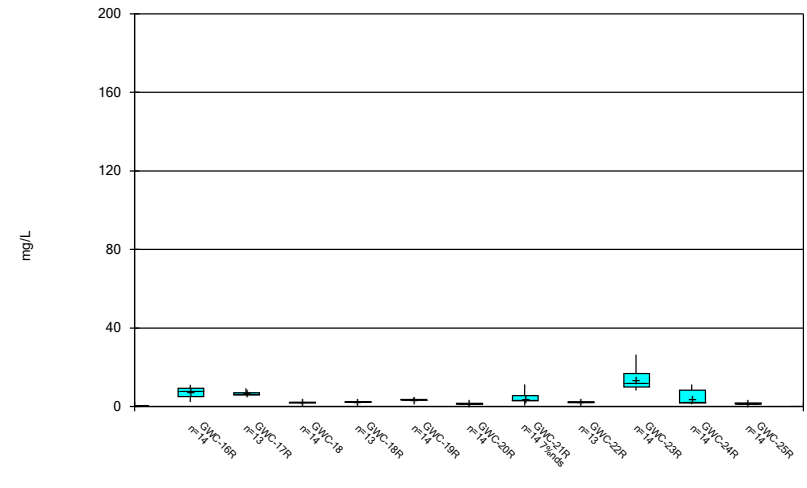
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



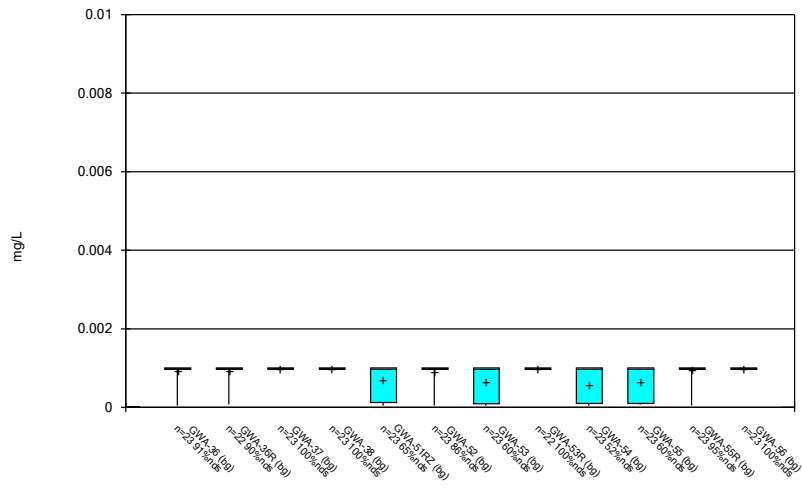
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



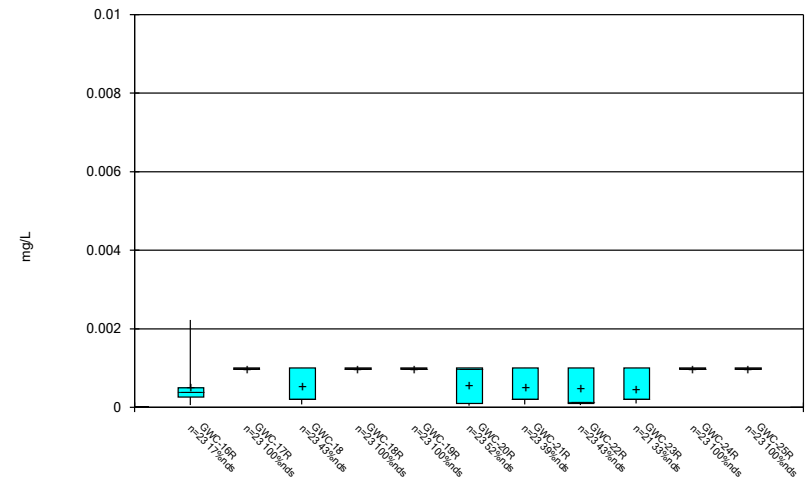
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



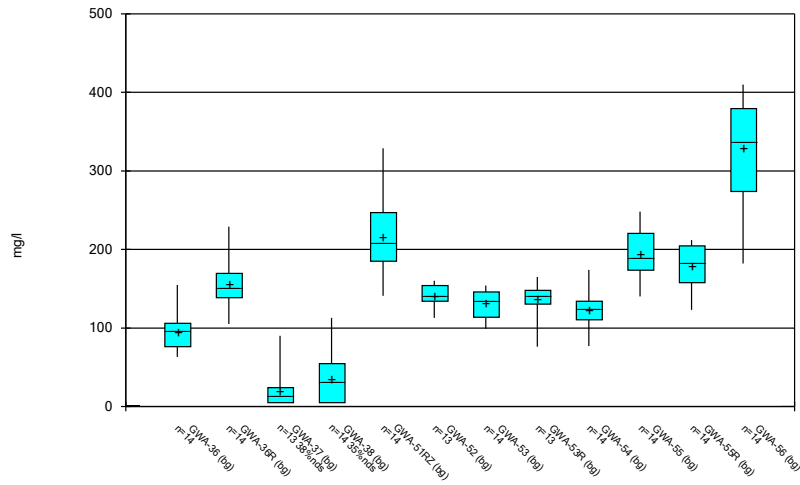
Constituent: Thallium Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



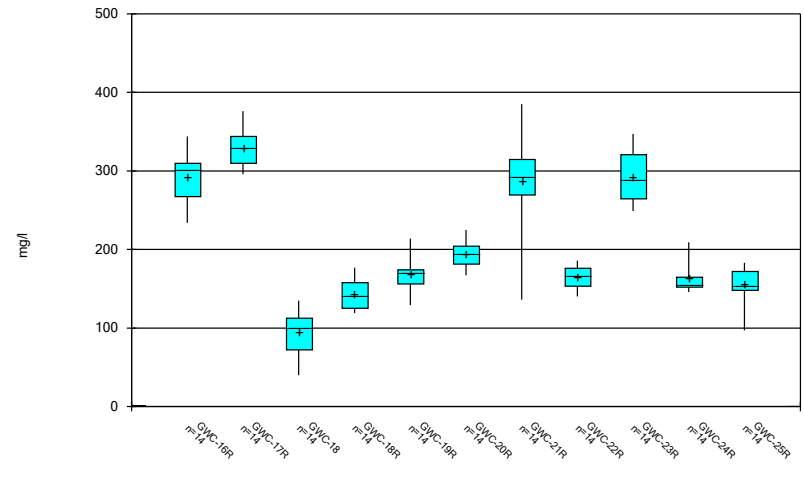
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 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



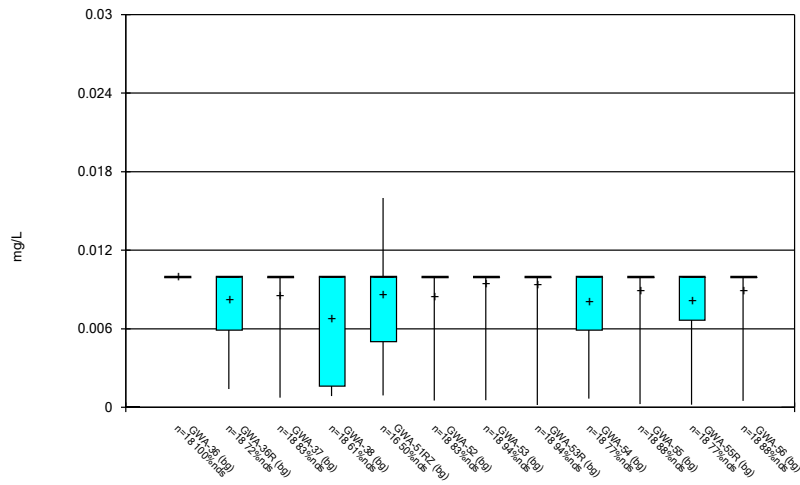
Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



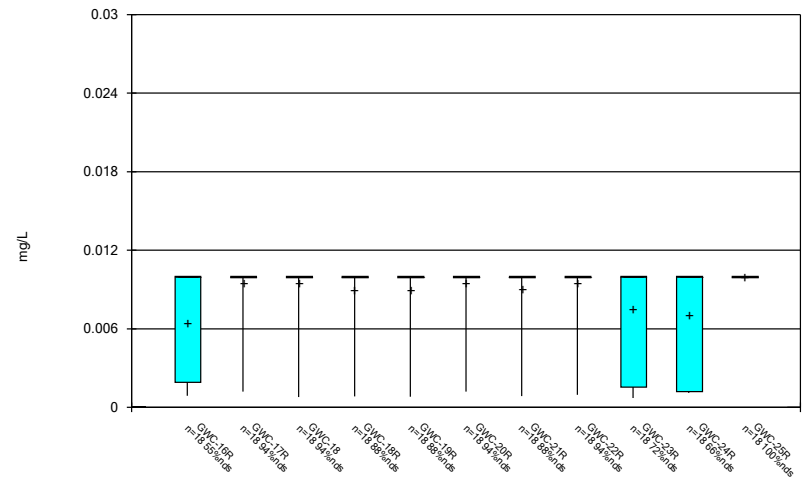
Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



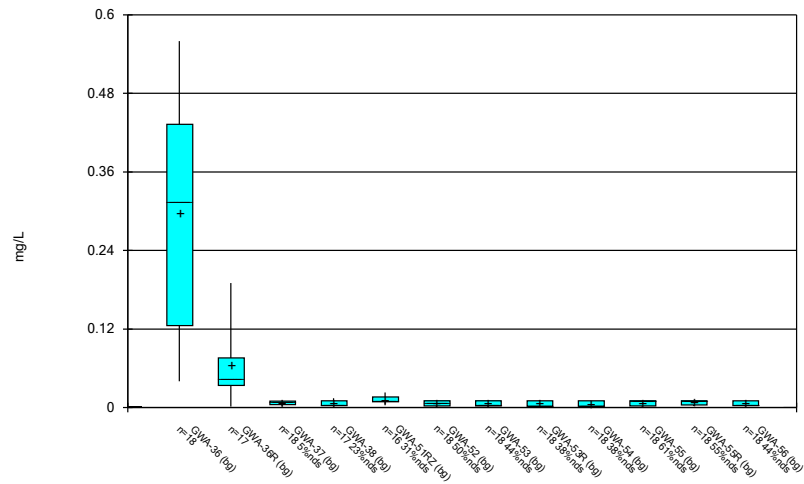
Constituent: Vanadium Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



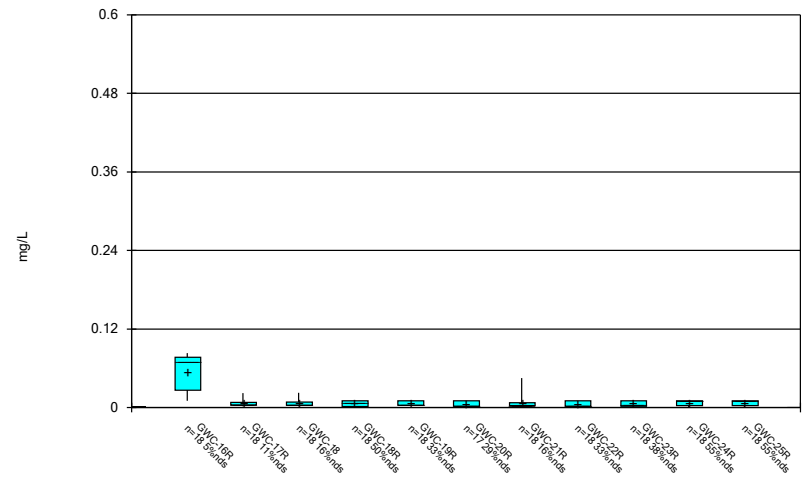
Constituent: Vanadium Analysis Run 4/16/2020 1:15 PM
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/16/2020 1:15 PM
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

FIGURE C.

Excluded Data

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 9:41 AM

	GWC-23R Thallium (mg/L)	GWA-37 Total Dissolved Solids (mg/l)	GWA-51RZ Vanadium (mg/L)	GWA-36R Zinc (mg/L)	GWA-38 Zinc (mg/L)	GWA-51RZ Zinc (mg/L)	GWC-20R Zinc (mg/L)
9/15/2014				0.44 (o)			
9/17/2014							
10/4/2014							
10/21/2014							
11/5/2014							
11/11/2014							
3/2/2015				0.041 (o)			
3/3/2015							
5/8/2015							
5/17/2015					0.12 (o)		
5/25/2015							
8/12/2015		0.0279 (o)					
3/2/2016							
3/3/2016							
3/4/2016							
3/7/2016							
3/8/2016						0.557 (o)	
3/9/2016	0.0033 (Jo)						
5/3/2016							
7/12/2016							
9/8/2016							
9/13/2016							
1/6/2017		189 (O)					
3/23/2017							
3/12/2019							

FIGURE D.

State Parameters Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/4/2020	0.019	Yes	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Barium (mg/L)	GWA-56	0.03746	n/a	3/4/2020	0.039	Yes	20	0.02309	0.005602	5	None	0.0002993	Param 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Antimony (mg/L)	GWA-36	0.0032	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-37	0.0052	n/a	3/2/2020	0.0018	No	20	n/a	n/a	45	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWA-51RZ	0.0033	n/a	3/3/2020	0.003ND	No	19	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-53	0.003	n/a	3/4/2020	0.0019	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-53R	0.0034	n/a	3/4/2020	0.00053	No	20	n/a	n/a	60	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-54	0.003	n/a	3/3/2020	0.0011	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-55	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-55R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWA-56	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/4/2020	0.019	Yes	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWC-17R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.003	n/a	3/6/2020	0.00049	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-18R	0.003	n/a	3/5/2020	0.00068	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-21R	0.0064	n/a	3/3/2020	0.0019	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Antimony (mg/L)	GWC-23R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.003ND	No	17	n/a	n/a	64.71	n/a	0.005914	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-25R	0.003	n/a	3/3/2020	0.003ND	No	19	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-36R	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.00053	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-38	0.0062	n/a	3/2/2020	0.00059	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-51RZ	0.008095	n/a	3/3/2020	0.00073	No	19	0.002535	0.002138	36.84	Kaplan-Meier	0.0002993	Param 1 of 2
Arsenic (mg/L)	GWA-52	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-53	0.005	n/a	3/4/2020	0.00044	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-53R	0.005	n/a	3/4/2020	0.00043	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-54	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-55	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-56	0.005	n/a	3/4/2020	0.0004	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-16R	0.005	n/a	3/4/2020	0.00088	No	19	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-17R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.00042	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-19R	0.005	n/a	3/4/2020	0.00072	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-20R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-21R	0.005	n/a	3/3/2020	0.0015	No	19	n/a	n/a	68.42	n/a	0.004832	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-22R	0.005	n/a	3/3/2020	0.0014	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-23R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Barium (mg/L)	GWA-36	0.01907	n/a	3/2/2020	0.019	No	15	0.01257	0.002339	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-36R	0.03424	n/a	3/2/2020	0.024	No	20	0.02211	0.004732	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-37	0.014	n/a	3/2/2020	0.005	No	20	0.008485	0.002151	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-38	0.01787	n/a	3/2/2020	0.012	No	19	0.01284	0.001936	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-51RZ	0.0345	n/a	3/3/2020	0.017	No	20	0.01511	0.007558	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-52	0.04903	n/a	3/2/2020	0.023	No	20	0.02779	0.008281	5	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-53	0.02258	n/a	3/4/2020	0.013	No	15	0.01479	0.002803	6.667	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-53R	0.01632	n/a	3/4/2020	0.015	No	20	0.0144	0.0007501	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-54	0.058	n/a	3/3/2020	0.031	No	20	n/a	n/a	5	n/a	0.004291	NP (normality) 1 of 2
Barium (mg/L)	GWA-55	0.03737	n/a	3/3/2020	0.023	No	20	0.02333	0.005472	5	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-55R	0.08801	n/a	3/4/2020	0.029	No	20	0.05106	0.0144	5	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWA-56	0.03746	n/a	3/4/2020	0.039	Yes	20	0.02309	0.005602	5	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-16R	0.079	n/a	3/4/2020	0.045	No	20	0.2188	0.02428	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-17R	0.02153	n/a	3/5/2020	0.018	No	19	0.01975	0.0006818	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-18	0.04779	n/a	3/6/2020	0.015	No	19	0.0302	0.006763	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-18R	0.0173	n/a	3/5/2020	0.015	No	16	0.01425	0.001127	0	None	0.0002993	Param 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Barium (mg/L)	GWC-19R	0.01846	n/a	3/4/2020	0.017	No	19	0.01597	0.0009569	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-20R	0.03595	n/a	3/5/2020	0.028	No	20	0.02989	0.002362	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-21R	0.0377	n/a	3/3/2020	0.022	No	20	n/a	n/a	0	n/a	0.004291	NP (normality) 1 of 2
Barium (mg/L)	GWC-22R	0.06518	n/a	3/3/2020	0.044	No	19	0.0402	0.009605	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-23R	0.0421	n/a	3/5/2020	0.022	No	20	0.02645	0.006104	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-24R	0.03363	n/a	3/3/2020	0.02	No	19	0.02339	0.003934	0	None	0.0002993	Param 1 of 2
Barium (mg/L)	GWC-25R	0.0167	n/a	3/3/2020	0.015	No	20	n/a	n/a	0	n/a	0.004291	NP (normality) 1 of 2
Beryllium (mg/L)	GWA-36	0.003	n/a	3/2/2020	0.00024	No	20	n/a	n/a	35	n/a	0.004291	NP (normality) 1 of 2
Beryllium (mg/L)	GWA-36R	0.0032	n/a	3/2/2020	0.00015	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Beryllium (mg/L)	GWA-37	0.003	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-38	0.003	n/a	3/2/2020	0.003ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-51RZ	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-53R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-55	0.003	n/a	3/3/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-55R	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWA-56	0.003	n/a	3/4/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-18	0.003	n/a	3/6/2020	0.003ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-18R	0.003	n/a	3/5/2020	0.00013	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-19R	0.003	n/a	3/4/2020	0.00013	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-20R	0.003	n/a	3/5/2020	0.003ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWA-36	0.001664	n/a	3/2/2020	0.0012	No	20	0.0008898	0.000302	15	None	0.0002993	Param 1 of 2
Cadmium (mg/L)	GWA-36R	0.001	n/a	3/2/2020	0.00018	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Cadmium (mg/L)	GWA-37	0.0025	n/a	3/2/2020	0.0025ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWA-38	0.0025	n/a	3/2/2020	0.0025ND	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWA-51RZ	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.0025	n/a	3/6/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-21R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-22R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-25R	0.0025	n/a	3/3/2020	0.0025ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-36	0.01	n/a	3/2/2020	0.01ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.00047	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-37	0.01	n/a	3/2/2020	0.01ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.0014	No	20	n/a	n/a	20	n/a	0.004291	NP (normality) 1 of 2
Chromium (mg/L)	GWA-51RZ	0.02	n/a	3/3/2020	0.01ND	No	17	n/a	n/a	58.82	n/a	0.005914	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.0011	No	20	n/a	n/a	60	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.00076	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.0012	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.0017	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Chromium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.00085	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.00079	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.0014	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.00063	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.005104	n/a	3/6/2020	0.0019	No	16	0.002947	0.0007961	0	None	0.0002993	Param 1 of 2
Chromium (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.0007	No	16	n/a	n/a	68.75	n/a	0.006456	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.001	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.00075	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-21R	0.01	n/a	3/3/2020	0.00058	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.00057	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00086	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.00078	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-36	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-36R	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	55	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-38	0.004336	n/a	3/2/2020	0.0011	No	17	0.04368	0.008291	0	None	0.0002993	Param 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Cobalt (mg/L)	GWA-51RZ	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-54	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-55	0.00715	n/a	3/3/2020	0.0048	No	20	n/a	n/a	n/a	35	n/a	0.004291	NP (normality) 1 of 2
Cobalt (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-16R	0.00818	n/a	3/4/2020	0.005ND	No	20	0.0431	0.01846	15	None	0.0002993	Param 1 of 2	
Cobalt (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.005ND	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-21R	0.0183	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.00078	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Copper (mg/L)	GWA-36	0.025	n/a	3/2/2020	0.025ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-36R	0.025	n/a	3/2/2020	0.00043	No	15	n/a	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-37	0.02858	n/a	3/2/2020	0.0068	No	10	0.01155	0.005241	0	None	0.0002993	Param 1 of 2	
Copper (mg/L)	GWA-38	0.025	n/a	3/2/2020	0.00019	No	15	n/a	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-51RZ	0.025	n/a	3/3/2020	0.00041	No	14	n/a	n/a	n/a	64.29	n/a	0.008612	NP (NDs) 1 of 2
Copper (mg/L)	GWA-52	0.025	n/a	3/2/2020	0.00024	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-53	0.025	n/a	3/4/2020	0.00053	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-53R	0.025	n/a	3/4/2020	0.025ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-54	0.025	n/a	3/3/2020	0.00025	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-55	0.025	n/a	3/3/2020	0.025ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-55R	0.025	n/a	3/4/2020	0.025ND	No	15	n/a	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWA-56	0.025	n/a	3/4/2020	0.0003	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-16R	0.025	n/a	3/4/2020	0.0024	No	15	n/a	n/a	n/a	13.33	n/a	0.007533	NP (normality) 1 of 2
Copper (mg/L)	GWC-17R	0.025	n/a	3/5/2020	0.00023	No	15	n/a	n/a	n/a	40	n/a	0.007533	NP (normality) 1 of 2
Copper (mg/L)	GWC-18R	0.025	n/a	3/5/2020	0.025ND	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-19R	0.025	n/a	3/4/2020	0.00036	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-20R	0.025	n/a	3/5/2020	0.025ND	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-21R	0.025	n/a	3/3/2020	0.00049	No	15	n/a	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-22R	0.025	n/a	3/3/2020	0.00022	No	15	n/a	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-23R	0.025	n/a	3/5/2020	0.0003	No	15	n/a	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Copper (mg/L)	GWC-24R	0.025	n/a	3/3/2020	0.00097	No	15	n/a	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Lead (mg/L)	GWA-36	0.005	n/a	3/2/2020	0.000052	No	20	n/a	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-36R	0.0069	n/a	3/2/2020	0.00031	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-37	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-38	0.005	n/a	3/2/2020	0.005ND	No	20	n/a	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-51RZ	0.005	n/a	3/3/2020	0.000051	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-53	0.005	n/a	3/4/2020	0.00016	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-53R	0.005	n/a	3/4/2020	0.000066	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-55	0.005	n/a	3/3/2020	0.000048	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-55R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWA-56	0.005	n/a	3/4/2020	0.00005	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-16R	0.005	n/a	3/4/2020	0.005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-17R	0.005	n/a	3/5/2020	0.005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.005	n/a	3/6/2020	0.00013	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-18R	0.005	n/a	3/5/2020	0.00032	No	20	n/a	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-19R	0.005	n/a	3/4/2020	0.0003	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-21R	0.005	n/a	3/3/2020	0.005ND	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-22R	0.005	n/a	3/3/2020	0.000059	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-23R	0.005	n/a	3/5/2020	0.000052	No	20	n/a	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-24R	0.005	n/a	3/3/2020	0.000057	No	20	n/a	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Lead (mg/L)	GWC-25R	0.005	n/a	3/3/2020	0.000059	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-36	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-36R	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-37	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-38	0.0005	n/a	3/2/2020	0.0005ND	No	20	n/a	n/a	n/a	80	n/a	0.004291	NP (NDs) 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Mercury (mg/L)	GWA-51RZ	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-16R	0.0005	n/a	3/4/2020	0.0005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-17R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.0005	n/a	3/6/2020	0.0005ND	No	20	n/a	n/a	75	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-18R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-19R	0.0005	n/a	3/4/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-20R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-21R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-22R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-23R	0.0005	n/a	3/5/2020	0.0005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-24R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-25R	0.0005	n/a	3/3/2020	0.0005ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-36	0.0142	n/a	3/2/2020	0.00071	No	15	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.00051	No	15	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-37	0.02948	n/a	3/2/2020	0.0079	No	15	0.01434	0.005448	0	None	0.0002993	Param 1 of 2
Nickel (mg/L)	GWA-38	0.01429	n/a	3/2/2020	0.001	No	15	0.05358	0.02374	26.67	Kaplan-Meier	0.0002993	Param 1 of 2
Nickel (mg/L)	GWA-51RZ	0.01	n/a	3/3/2020	0.01ND	No	14	n/a	n/a	85.71	n/a	0.008612	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.00061	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-16R	0.02928	n/a	3/4/2020	0.0032	No	11	0.01443	0.004761	0	None	0.0002993	Param 1 of 2
Nickel (mg/L)	GWC-18	0.01	n/a	3/6/2020	0.0005	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.00071	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-21R	0.01	n/a	3/3/2020	0.00099	No	14	n/a	n/a	42.86	n/a	0.008612	NP (normality) 1 of 2
Nickel (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.001	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00075	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-51RZ	0.01	n/a	3/3/2020	0.0053	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Selenium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.0025	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.0018	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Silver (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Silver (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-36	0.001	n/a	3/2/2020	0.001ND	No	20	n/a	n/a	90	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-36R	0.001	n/a	3/2/2020	0.001ND	No	19	n/a	n/a	89.47	n/a	0.004832	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-51RZ	0.001	n/a	3/3/2020	0.00012	No	20	n/a	n/a	70	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-52	0.001	n/a	3/2/2020	0.001ND	No	20	n/a	n/a	85	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-53	0.001	n/a	3/4/2020	0.001ND	No	20	n/a	n/a	55	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-54	0.001	n/a	3/3/2020	0.000079	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWA-55	0.001	n/a	3/3/2020	0.000065	No	20	n/a	n/a	65	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-55R	0.001	n/a	3/4/2020	0.001ND	No	20	n/a	n/a	95	n/a	0.004291	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-16R	0.00116	n/a	3/4/2020	0.00014	No	20	-8.321	0.6089	20	Kaplan-Meier	0.0002993	Param 1 of 2
Thallium (mg/L)	GWC-18	0.001	n/a	3/6/2020	0.000076	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-20R	0.001	n/a	3/5/2020	0.001ND	No	20	n/a	n/a	45	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-21R	0.001	n/a	3/3/2020	0.000071	No	20	n/a	n/a	40	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-22R	0.001	n/a	3/3/2020	0.000072	No	20	n/a	n/a	50	n/a	0.004291	NP (normality) 1 of 2
Thallium (mg/L)	GWC-23R	0.001	n/a	3/5/2020	0.00018	No	18	n/a	n/a	33.33	n/a	0.005373	NP (normality) 1 of 2
Vanadium (mg/L)	GWA-36R	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-37	0.01	n/a	3/2/2020	0.00074	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2

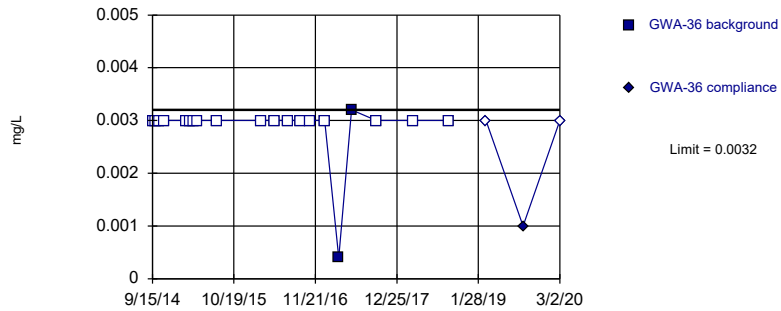
State Parameters Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Vanadium (mg/L)	GWA-38	0.01	n/a	3/2/2020	0.0014	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-51RZ	0.01862	n/a	3/3/2020	0.00091	No	13	0.006365	0.004195	46.15	Kaplan-Meier	0.0002993	Param 1 of 2
Vanadium (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.01ND	No	15	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	73.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	73.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-16R	0.01	n/a	3/4/2020	0.0023	No	15	n/a	n/a	60	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-17R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	86.67	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.01ND	No	15	n/a	n/a	93.33	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-23R	0.01	n/a	3/5/2020	0.00071	No	15	n/a	n/a	80	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.0011	No	15	n/a	n/a	73.33	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-36	0.6895	n/a	3/2/2020	0.54	No	15	0.2609	0.1542	0	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-36R	0.2673	n/a	3/2/2020	0.056	No	10	0.2552	0.08056	0	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-37	0.01469	n/a	3/2/2020	0.0063	No	15	0.007437	0.002609	6.667	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-38	0.01324	n/a	3/2/2020	0.0032	No	14	0.004518	0.003061	21.43	Kaplan-Meier	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-51RZ	0.02982	n/a	3/3/2020	0.0035	No	13	0.01128	0.00635	30.77	Kaplan-Meier	0.0002993	Param 1 of 2
Zinc (mg/L)	GWA-52	0.01	n/a	3/2/2020	0.0024	No	15	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-53	0.01	n/a	3/4/2020	0.004	No	15	n/a	n/a	46.67	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-53R	0.01	n/a	3/4/2020	0.0027	No	15	n/a	n/a	40	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-54	0.01	n/a	3/3/2020	0.0024	No	15	n/a	n/a	40	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWA-55	0.01	n/a	3/3/2020	0.005	No	15	n/a	n/a	66.67	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-55R	0.01	n/a	3/4/2020	0.0028	No	15	n/a	n/a	60	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-56	0.01	n/a	3/4/2020	0.0029	No	15	n/a	n/a	46.67	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-16R	0.09557	n/a	3/4/2020	0.015	No	15	0.0002999	0.0002062	6.667	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-17R	0.02404	n/a	3/5/2020	0.0035	No	15	0.1752	0.04079	13.33	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-18	0.02694	n/a	3/6/2020	0.0045	No	15	-5.394	0.6405	13.33	None	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-18R	0.01	n/a	3/5/2020	0.0024	No	15	n/a	n/a	53.33	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-19R	0.01	n/a	3/4/2020	0.0072	No	15	n/a	n/a	33.33	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-20R	0.01	n/a	3/5/2020	0.0023	No	14	n/a	n/a	28.57	n/a	0.008612	NP (normality) 1 of 2
Zinc (mg/L)	GWC-21R	0.006515	n/a	3/3/2020	0.0044	No	15	-5.726	0.2492	20	Kaplan-Meier	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-22R	0.01	n/a	3/3/2020	0.0029	No	15	n/a	n/a	40	n/a	0.007533	NP (normality) 1 of 2
Zinc (mg/L)	GWC-23R	0.008062	n/a	3/5/2020	0.0084	No	15	-6.256	0.5164	40	Kaplan-Meier	0.0002993	Param 1 of 2
Zinc (mg/L)	GWC-24R	0.01	n/a	3/3/2020	0.0033	No	15	n/a	n/a	60	n/a	0.007533	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-25R	0.01	n/a	3/3/2020	0.0027	No	15	n/a	n/a	60	n/a	0.007533	NP (NDs) 1 of 2

Within Limit

Prediction Limit Intrawell Non-parametric

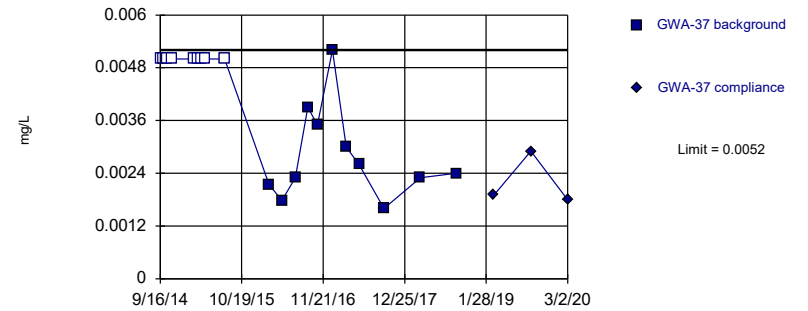


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

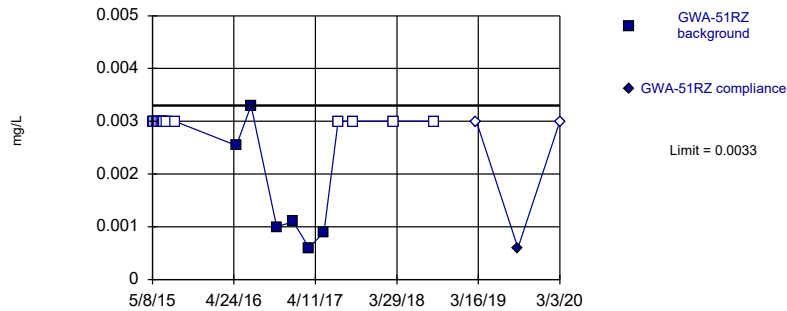


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

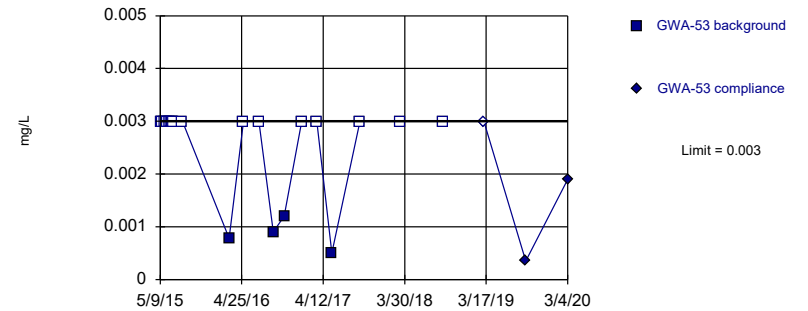


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.003	
10/3/2014	<0.003	
10/20/2014	<0.003	
11/10/2014	<0.003	
3/2/2015	<0.003	
3/17/2015	<0.003	
4/5/2015	<0.003	
4/21/2015	<0.003	
7/28/2015	<0.003	
3/1/2016	<0.003	
5/2/2016	<0.003	
7/7/2016	<0.003	
9/7/2016	<0.003	
10/25/2016	<0.003	
1/5/2017	<0.003	
3/15/2017	0.0004 (J)	
5/17/2017	0.0032	
9/15/2017	<0.003	
3/12/2018	<0.003	
9/6/2018	<0.003	
3/6/2019		<0.003
9/4/2019		0.001 (J)
3/2/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	0.00214 (J)	
5/3/2016	0.00178 (J)	
7/8/2016	0.0023 (J)	
9/7/2016	0.0039	
10/25/2016	0.0035	
1/6/2017	0.0052	
3/14/2017	0.003	
5/16/2017	0.0026 (J)	
9/15/2017	0.0016 (J)	
3/12/2018	0.0023 (J)	
9/6/2018	0.0024 (J)	
3/6/2019		0.0019 (J)
9/4/2019		0.0029 (J)
3/2/2020		0.0018 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.003	
5/17/2015	<0.003	
5/25/2015	<0.003	
6/8/2015	<0.003	
6/18/2015	<0.003	
6/24/2015	<0.003	
6/30/2015	<0.003	
7/6/2015	<0.003	
8/12/2015	<0.003	
5/4/2016	0.00254 (JD)	
7/7/2016	0.0033 (D)	
9/8/2016	0.0046 (o)	
10/26/2016	0.001 (D)	
1/6/2017	0.0011 (D)	
3/15/2017	0.0006 (D)	
5/18/2017	0.0009 (D)	
7/19/2017	<0.003 (D)	
9/19/2017	<0.003 (D)	
3/13/2018	<0.003	
9/7/2018	<0.003	
3/8/2019		<0.003
9/4/2019		0.0006 (J)
3/3/2020		<0.003

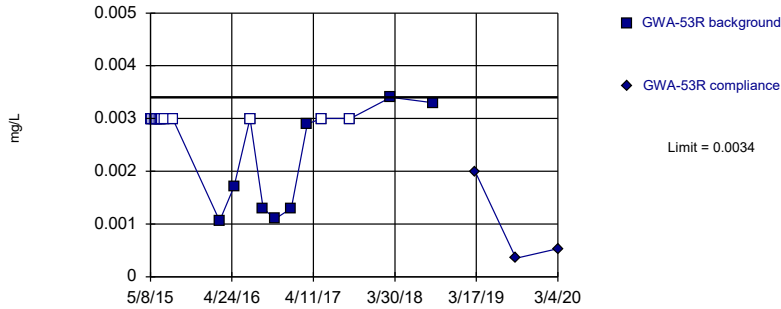
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.003	
5/18/2015	<0.003	
5/25/2015	<0.003	
6/8/2015	<0.003	
6/17/2015	<0.003	
6/24/2015	<0.003	
6/30/2015	<0.003	
7/6/2015	<0.003	
8/12/2015	<0.003	
3/2/2016	0.000782 (J)	
5/3/2016	<0.003	
7/8/2016	<0.003	
9/8/2016	0.0009 (J)	
10/26/2016	0.0012 (J)	
1/9/2017	<0.003	
3/16/2017	<0.003	
5/19/2017	0.0005 (J)	
9/19/2017	<0.003	
3/13/2018	<0.003	
9/11/2018	<0.003	
3/8/2019		<0.003
9/5/2019		0.00035 (J)
3/4/2020		0.0019 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

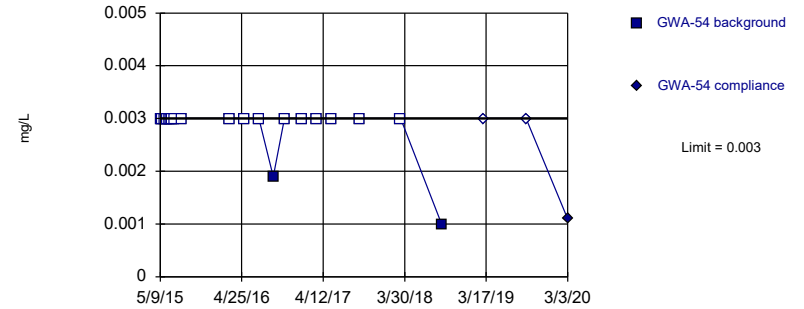


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 60% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

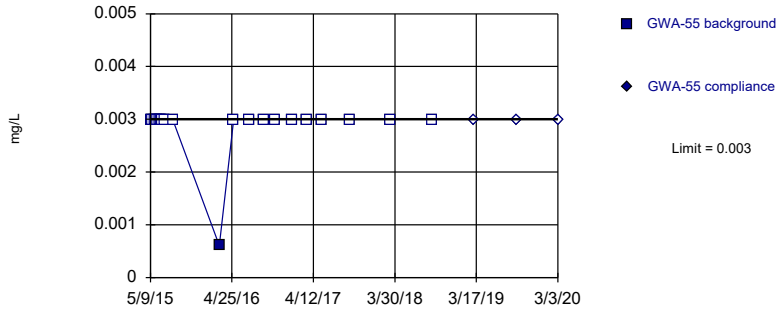


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

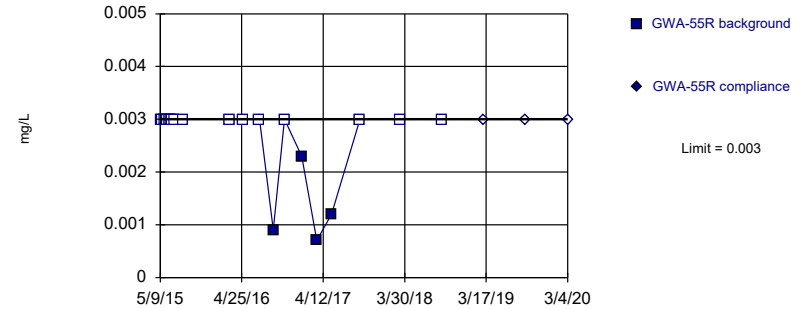


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.003	
5/17/2015	<0.003	
5/25/2015	<0.003	
6/8/2015	<0.003	
6/18/2015	<0.003	
6/24/2015	<0.003	
6/30/2015	<0.003	
7/6/2015	<0.003	
8/12/2015	<0.003	
3/2/2016	0.00106 (J)	
5/3/2016	0.00171 (J)	
7/11/2016	<0.003	
9/7/2016	0.0013 (J)	
10/27/2016	0.0011 (J)	
1/6/2017	0.0013 (J)	
3/16/2017	0.0029 (J)	
5/19/2017	<0.003	
9/19/2017	<0.003	
3/13/2018	0.0034	
9/11/2018	0.0033	
3/12/2019		0.002 (J)
9/5/2019		0.00035 (J)
3/4/2020		0.00053 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.003	
5/18/2015	<0.003	
5/25/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	<0.003	
8/12/2015	<0.003	
3/2/2016	<0.003	
5/4/2016	<0.003	
7/8/2016	<0.003	
9/8/2016	0.0019 (J)	
10/26/2016	<0.003	
1/9/2017	<0.003	
3/15/2017	<0.003	
5/18/2017	<0.003	
9/15/2017	<0.003	
3/13/2018	<0.003	
9/6/2018	0.001 (J)	
3/7/2019		<0.003
9/5/2019		<0.003
3/3/2020		0.0011 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.003	
5/18/2015	<0.003	
5/26/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	<0.003	
8/13/2015	<0.003	
3/2/2016	0.000608 (J)	
5/3/2016	<0.003	
7/11/2016	<0.003	
9/9/2016	<0.003	
10/26/2016	<0.003	
1/9/2017	<0.003	
3/16/2017	<0.003	
5/18/2017	<0.003	
9/15/2017	<0.003	
3/12/2018	<0.003	
9/7/2018	<0.003	
3/8/2019		<0.003
9/5/2019		<0.003
3/3/2020		<0.003

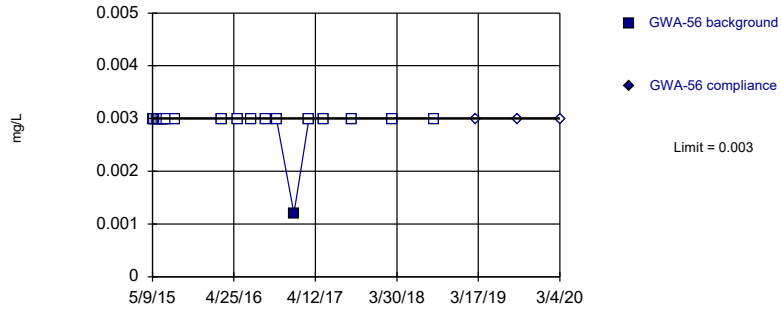
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.003	
5/18/2015	<0.003	
5/26/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	<0.003	
8/13/2015	<0.003	
3/3/2016	<0.003	
5/3/2016	<0.003	
7/11/2016	<0.003	
9/9/2016	0.0009 (J)	
10/27/2016	<0.003	
1/9/2017	0.0023 (J)	
3/16/2017	0.0007 (J)	
5/18/2017	0.0012 (J)	
9/18/2017	<0.003	
3/12/2018	<0.003	
9/7/2018	<0.003	
3/7/2019		<0.003
9/5/2019		<0.003
3/4/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

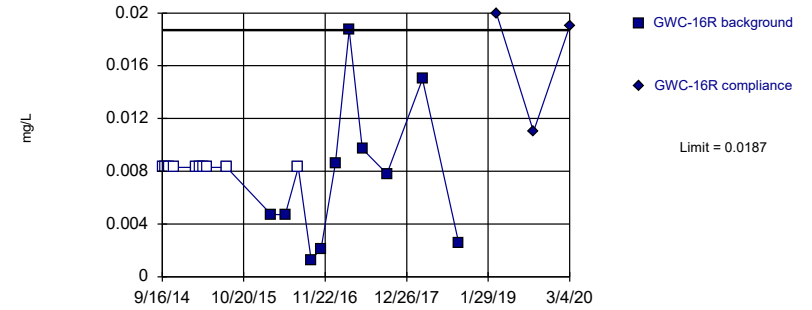


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

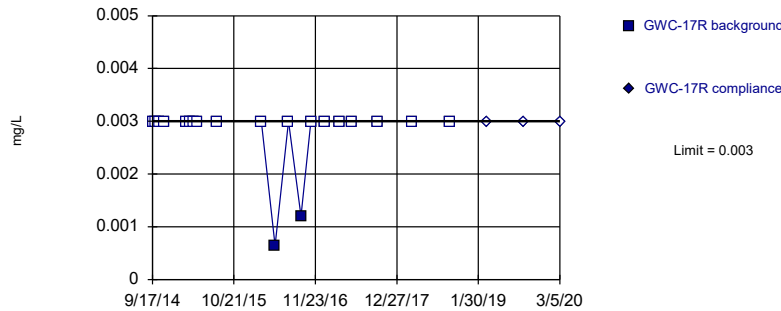


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

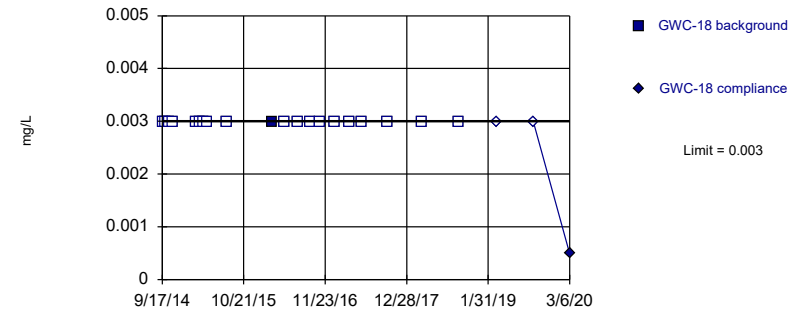


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.003	
5/19/2015	<0.003	
5/26/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	<0.003	
8/13/2015	<0.003	
3/3/2016	<0.003	
5/9/2016	<0.003	
7/11/2016	<0.003	
9/9/2016	<0.003	
10/26/2016	<0.003	
1/9/2017	0.0012 (J)	
3/15/2017	<0.003	
5/18/2017	<0.003	
9/15/2017	<0.003	
3/13/2018	<0.003	
9/7/2018	<0.003	
3/7/2019		<0.003
9/4/2019		<0.003
3/4/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	<0.0083	
10/4/2014	<0.0083	
10/21/2014	<0.0083	
11/11/2014	<0.0083	
3/3/2015	<0.0083	
3/18/2015	<0.0083	
4/6/2015	<0.0083	
4/23/2015	<0.0083	
7/29/2015	<0.0083	
3/3/2016	0.00472 (D)	
5/10/2016	0.0047	
7/13/2016	<0.0083	
9/15/2016	0.0013 (J)	
11/2/2016	0.0021 (J)	
1/11/2017	0.0086	
3/20/2017	0.0187	
5/23/2017	0.0097	
9/21/2017	0.0078	
3/14/2018	0.015	
9/7/2018	0.0026 (J)	
3/11/2019		0.02
9/9/2019		0.011
3/4/2020		0.019

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.003	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/11/2014	<0.003	
3/3/2015	<0.003	
3/18/2015	<0.003	
4/6/2015	<0.003	
4/23/2015	<0.003	
7/29/2015	<0.003	
3/4/2016	<0.003	
5/10/2016	0.000641 (J)	
7/14/2016	<0.003	
9/14/2016	0.0012 (J)	
11/1/2016	<0.003	
1/11/2017	<0.003	
3/21/2017	<0.003	
5/23/2017	<0.003	
9/22/2017	<0.003	
3/14/2018	<0.003	
9/11/2018	<0.003	
3/12/2019		<0.003
9/10/2019		<0.003
3/5/2020		<0.003

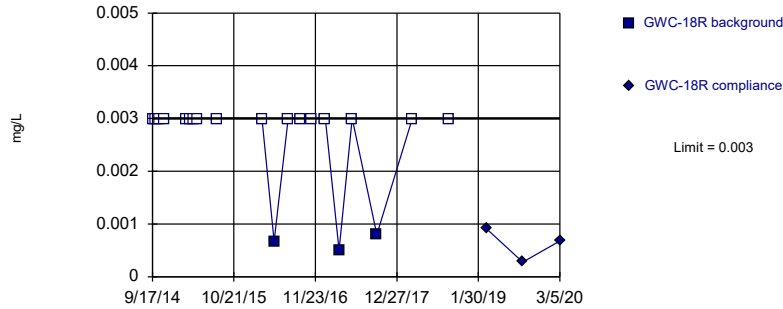
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.003	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/5/2014	<0.003	
3/3/2015	<0.003	
3/18/2015	<0.003	
4/7/2015	<0.003	
4/23/2015	<0.003	
7/29/2015	<0.003	
3/7/2016	0.003	
5/5/2016	<0.003	
7/13/2016	<0.003	
9/13/2016	<0.003	
10/31/2016	<0.003	
1/12/2017	<0.003	
3/23/2017	<0.003	
5/23/2017	<0.003	
9/25/2017	<0.003	
3/14/2018	<0.003	
9/11/2018	<0.003	
3/12/2019		<0.003
9/9/2019		<0.003
3/6/2020		0.00049 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

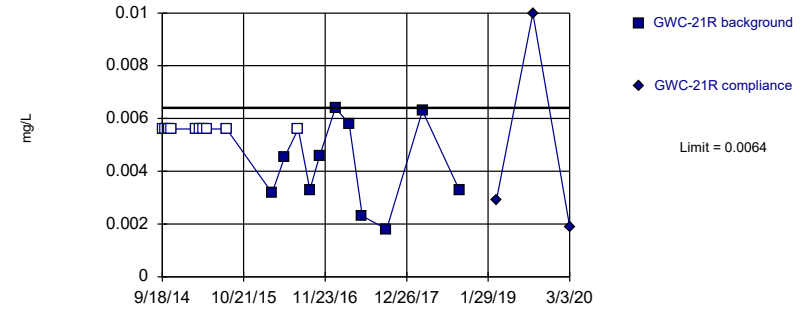


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

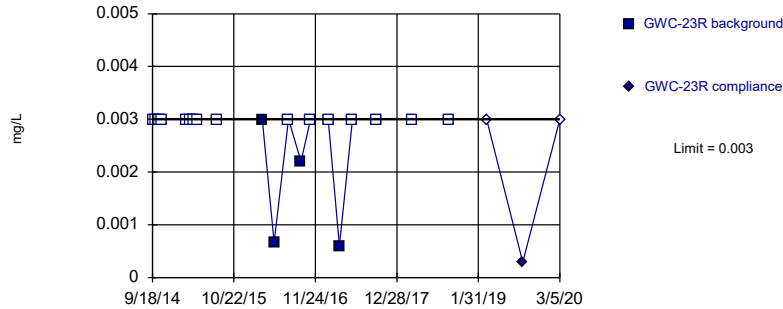


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

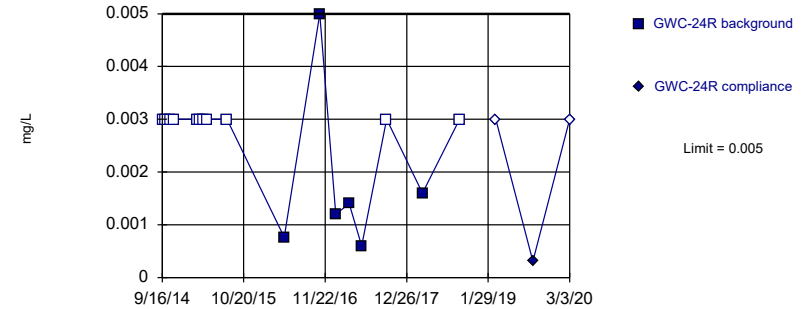


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.003	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/11/2014	<0.003	
3/3/2015	<0.003	
3/18/2015	<0.003	
4/7/2015	<0.003	
4/23/2015	<0.003	
7/29/2015	<0.003	
3/7/2016	<0.003	
5/5/2016	0.000672 (J)	
7/13/2016	<0.003	
9/12/2016	<0.003	
11/1/2016	<0.003	
1/11/2017	<0.003	
3/20/2017	0.0005 (J)	
5/22/2017	<0.003	
9/21/2017	0.0008 (J)	
3/14/2018	<0.003	
9/7/2018	<0.003	
3/12/2019		0.00091 (J)
9/6/2019		0.00028 (J)
3/5/2020		0.00068 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.0056	
10/5/2014	<0.0056	
10/22/2014	<0.0056	
11/5/2014	<0.0056	
3/4/2015	<0.0056	
3/19/2015	<0.0056	
4/8/2015	<0.0056	
4/24/2015	<0.0056	
7/30/2015	<0.0056	
3/8/2016	0.00318	
5/9/2016	0.00454	
7/15/2016	<0.0056	
9/9/2016	0.0033	
10/27/2016	0.0046	
1/12/2017	0.0064	
3/21/2017	0.0058	
5/23/2017	0.0023 (J)	
9/19/2017	0.0018 (J)	
3/14/2018	0.0063	
9/10/2018	0.0033	
3/11/2019		0.0029 (J)
9/6/2019		0.01
3/3/2020		0.0019 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.003	
10/5/2014	<0.003	
10/22/2014	<0.003	
11/5/2014	<0.003	
3/4/2015	<0.003	
3/20/2015	<0.003	
4/8/2015	<0.003	
4/23/2015	<0.003	
7/30/2015	<0.003	
3/9/2016	0.003	
5/6/2016	0.000666 (J)	
7/15/2016	<0.003	
9/14/2016	0.0022 (J)	
11/1/2016	<0.003	
1/25/2017	<0.003	
3/22/2017	0.0006 (J)	
5/24/2017	<0.003	
9/21/2017	<0.003	
3/14/2018	<0.003	
9/11/2018	<0.003	
3/12/2019		<0.003
9/6/2019		0.00029 (J)
3/5/2020		<0.003

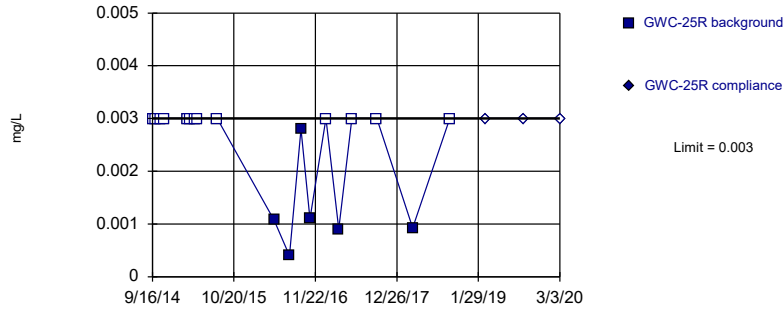
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	<0.003	
10/4/2014	<0.003	
10/23/2014	<0.003	
11/10/2014	<0.003	
3/4/2015	<0.003	
3/20/2015	<0.003	
4/8/2015	<0.003	
4/23/2015	<0.003	
7/30/2015	<0.003	
3/4/2016	0.0271 (Jo)	
5/5/2016	0.000761 (J)	
7/12/2016	0.0094 (o)	
9/13/2016	0.0072 (o)	
10/27/2016	0.005	
1/13/2017	0.0012 (J)	
3/20/2017	0.0014 (J)	
5/19/2017	0.0006 (J)	
9/19/2017	<0.003	
3/13/2018	0.0016 (J)	
9/11/2018	<0.003	
3/8/2019		<0.003
9/5/2019		0.00031 (JD)
3/3/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

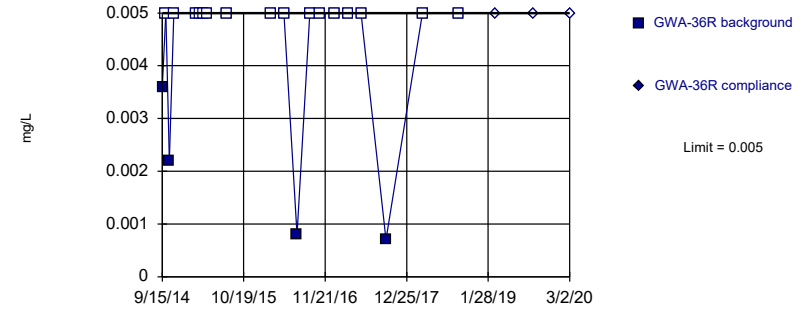


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Antimony Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

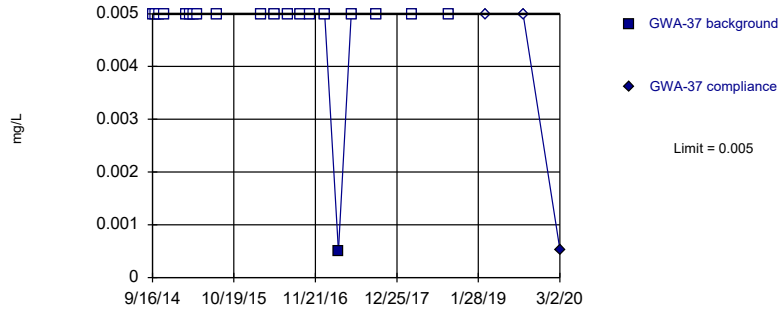


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

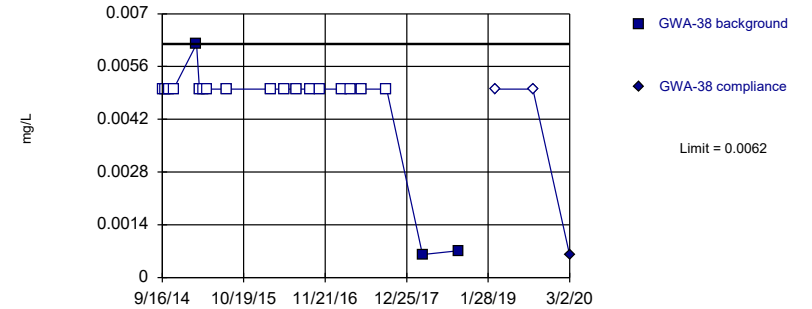


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.003	
10/4/2014	<0.003	
10/23/2014	<0.003	
11/10/2014	<0.003	
3/4/2015	<0.003	
3/20/2015	<0.003	
4/9/2015	<0.003	
4/23/2015	<0.003	
7/30/2015	<0.003	
3/8/2016	0.0226 (o)	
5/4/2016	0.00107 (J)	
7/18/2016	0.0004 (J)	
9/13/2016	0.0028 (J)	
10/27/2016	0.0011 (J)	
1/13/2017	<0.003	
3/16/2017	0.0009 (J)	
5/19/2017	<0.003	
9/19/2017	<0.003	
3/13/2018	0.00093 (J)	
9/11/2018	<0.003	
3/8/2019		<0.003
9/5/2019		<0.003
3/3/2020		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0036 (J)	
10/3/2014	<0.005	
10/20/2014	0.0022 (J)	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/2/2016	<0.005	
7/6/2016	0.0008 (J)	
9/7/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
3/14/2017	<0.005	
5/16/2017	<0.005	
9/15/2017	0.0007 (J)	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/3/2016	<0.005	
7/8/2016	<0.005	
9/7/2016	<0.005	
10/25/2016	<0.005	
1/6/2017	<0.005	
3/14/2017	0.0005 (J)	
5/16/2017	<0.005	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		<0.005
3/2/2020		0.00053 (J)

Prediction Limit

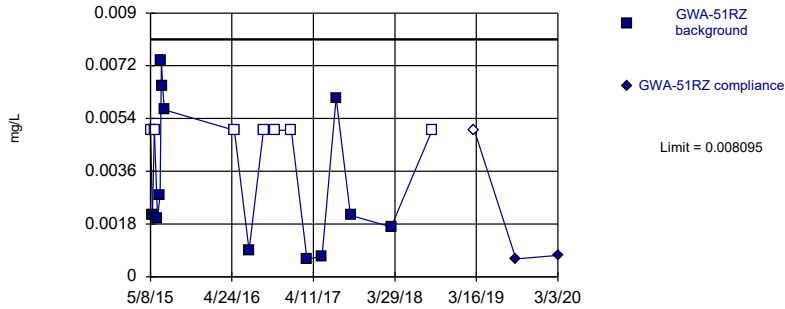
Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	0.0062	
3/17/2015	<0.005	
4/6/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/25/2016	<0.005	
2/9/2017	<0.005	
3/23/2017	<0.005	
5/17/2017	<0.005	
9/19/2017	<0.005	
3/13/2018	0.00061 (J)	
9/6/2018	0.00071 (J)	
3/7/2019		<0.005
9/4/2019		<0.005 (D)
3/2/2020		0.00059 (J)

Within Limit

Prediction Limit
 Intrawell Parametric

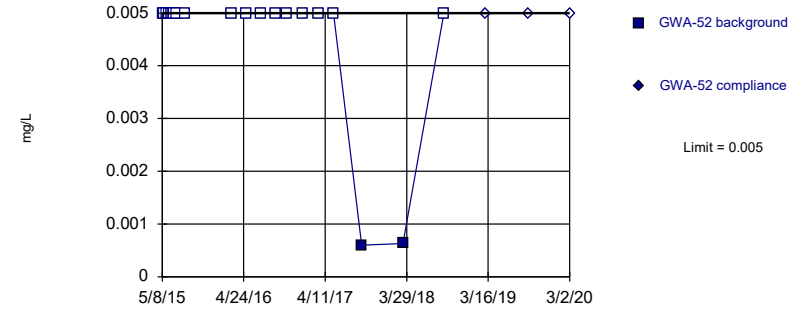


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002535, Std. Dev.=0.002138, n=19, 36.84% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8967, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

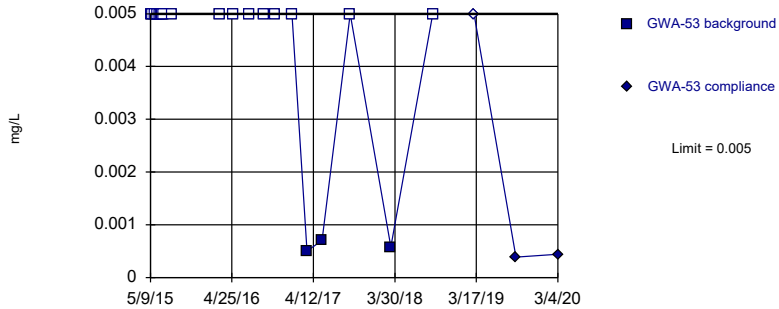


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

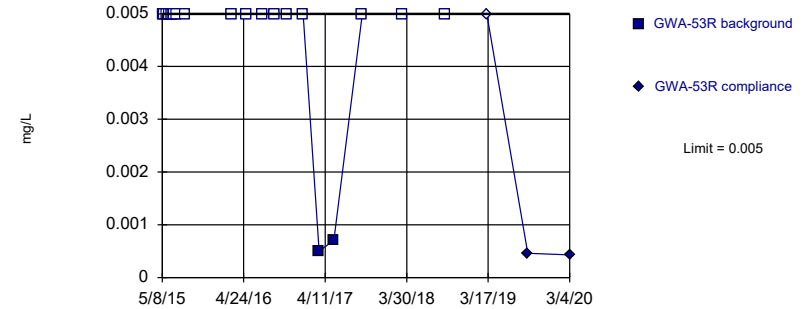


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.005	
5/17/2015	0.0021 (J)	
5/25/2015	<0.005	
6/8/2015	0.002 (J)	
6/18/2015	0.0028 (J)	
6/24/2015	0.0074	
6/30/2015	0.0065	
7/6/2015	0.0057	
5/4/2016	<0.005 (D)	
7/7/2016	0.0009 (JD)	
9/8/2016	<0.005 (D)	
10/26/2016	<0.005 (D)	
1/6/2017	<0.005 (D)	
3/15/2017	0.0006 (JD)	
5/18/2017	0.0007 (JD)	
7/19/2017	0.0061 (D)	
9/19/2017	0.0021 (JD)	
3/13/2018	0.0017 (J)	
9/7/2018	<0.005	
3/8/2019		<0.005
9/4/2019		0.00061 (J)
3/3/2020		0.00073 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.005	
5/17/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
2/29/2016	<0.005	
5/4/2016	<0.005	
7/8/2016	<0.005	
9/8/2016	<0.005	
10/26/2016	<0.005	
1/6/2017	<0.005	
3/15/2017	<0.005	
5/17/2017	<0.005	
9/15/2017	0.0006 (J)	
3/13/2018	0.00063 (J)	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.005	
5/18/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/17/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/8/2016	<0.005	
9/8/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	0.0005 (J)	
5/19/2017	0.0007 (J)	
9/19/2017	<0.005	
3/13/2018	0.00058 (J)	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		0.00039 (J)
3/4/2020		0.00044 (J)

Prediction Limit

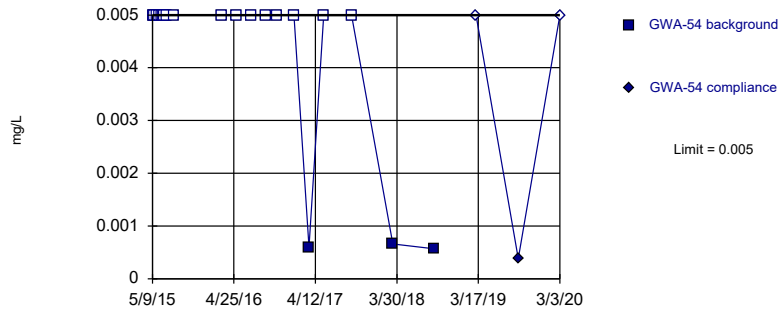
Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.005	
5/17/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	<0.005	
9/7/2016	<0.005	
10/27/2016	<0.005	
1/6/2017	<0.005	
3/16/2017	0.0005 (J)	
5/19/2017	0.0007 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/5/2019		0.00046 (J)
3/4/2020		0.00043 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

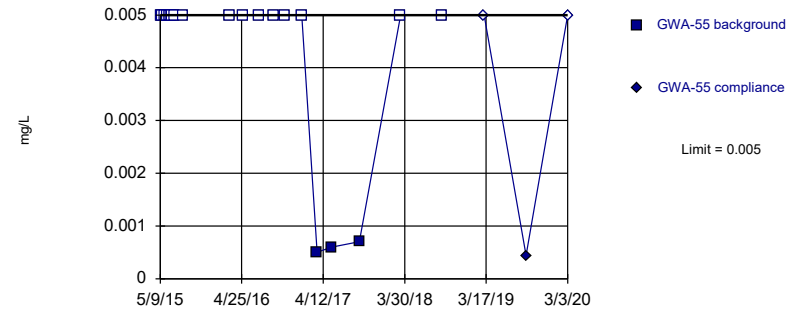


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

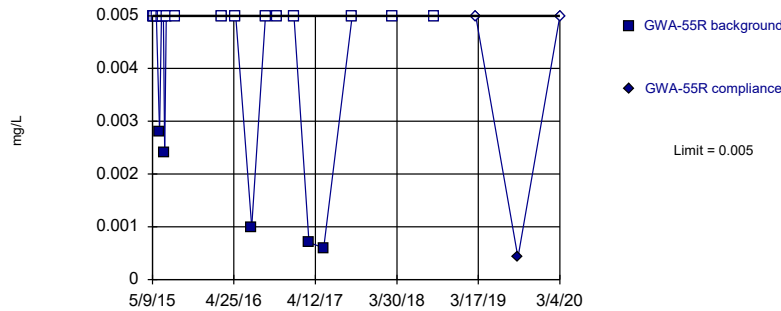


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

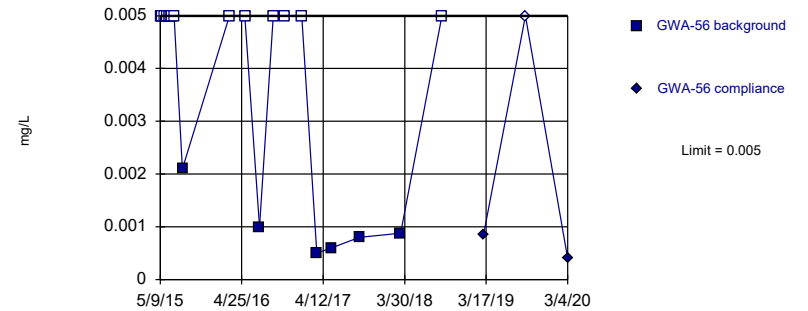


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.005	
5/18/2015	<0.005	
5/25/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/4/2016	<0.005	
7/8/2016	<0.005	
9/8/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/15/2017	0.0006 (J)	
5/18/2017	<0.005	
9/15/2017	<0.005	
3/13/2018	0.00066 (J)	
9/6/2018	0.00057 (J)	
3/7/2019		<0.005
9/5/2019		0.00038 (J)
3/3/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.005	
5/18/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	<0.005	
9/9/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	0.0005 (J)	
5/18/2017	0.0006 (J)	
9/15/2017	0.0007 (J)	
3/12/2018	<0.005	
9/7/2018	<0.005	
3/8/2019		<0.005
9/5/2019		0.00044 (J)
3/3/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.005	
5/18/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	0.0028 (J)	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	0.0024 (J)	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	0.001 (J)	
9/9/2016	<0.005	
10/27/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	0.0007 (J)	
5/18/2017	0.0006 (J)	
9/18/2017	<0.005	
3/12/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/5/2019		0.00042 (J)
3/4/2020		<0.005

Prediction Limit

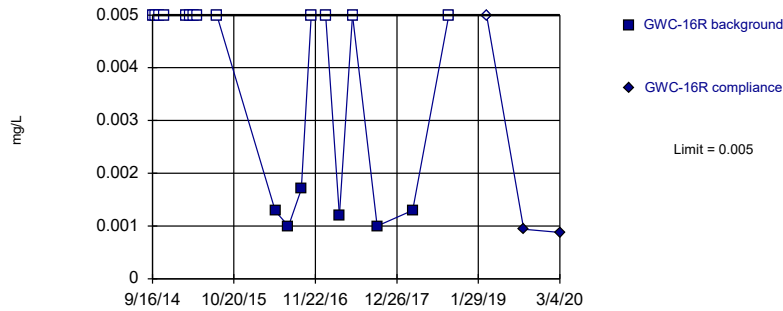
Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.005	
5/19/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/13/2015	0.0021 (J)	
3/3/2016	<0.005	
5/9/2016	<0.005	
7/11/2016	0.001 (J)	
9/9/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/15/2017	0.0005 (J)	
5/18/2017	0.0006 (J)	
9/15/2017	0.0008 (J)	
3/13/2018	0.00088 (J)	
9/7/2018	<0.005	
3/7/2019		0.00085 (J)
9/4/2019		<0.005
3/4/2020		0.0004 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

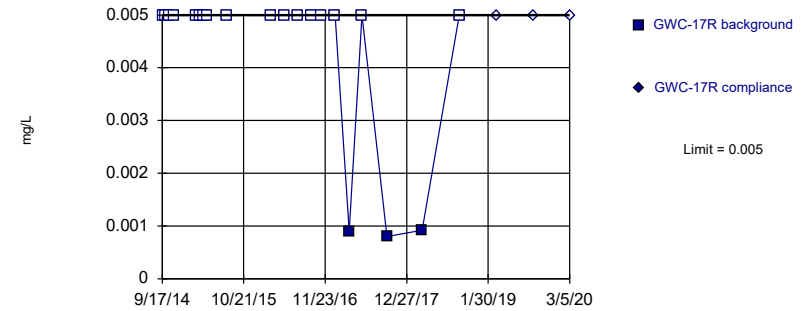


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

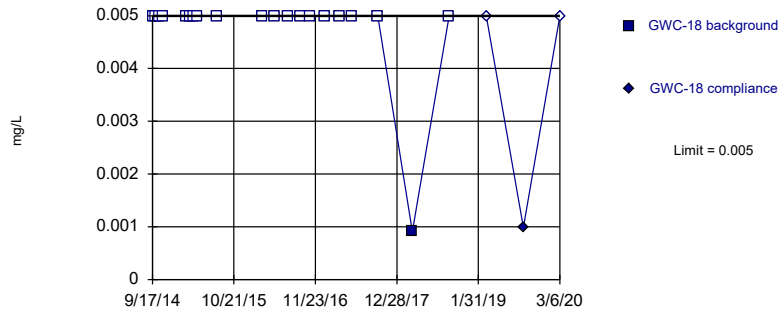


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

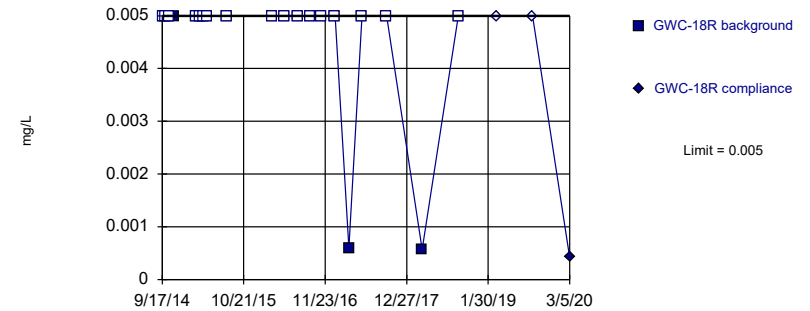


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/6/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/3/2016	0.08869 (oD)	
5/10/2016	0.00128 (J)	
7/13/2016	0.001 (J)	
9/15/2016	0.0017 (J)	
11/2/2016	<0.005	
1/11/2017	<0.005	
3/20/2017	0.0012 (J)	
5/23/2017	<0.005	
9/21/2017	0.001 (J)	
3/14/2018	0.0013 (J)	
9/7/2018	<0.005	
3/11/2019		<0.005
9/9/2019		0.00094 (J)
3/4/2020		0.00088 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/6/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/4/2016	<0.005	
5/10/2016	<0.005	
7/14/2016	<0.005	
9/14/2016	<0.005	
11/1/2016	<0.005	
1/11/2017	<0.005	
3/21/2017	0.0009 (J)	
5/23/2017	<0.005	
9/22/2017	0.0008 (J)	
3/14/2018	0.00092 (J)	
9/11/2018	<0.005	
3/12/2019		<0.005
9/10/2019		<0.005
3/5/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	<0.005	
9/13/2016	<0.005	
10/31/2016	<0.005	
1/12/2017	<0.005	
3/23/2017	<0.005	
5/23/2017	<0.005	
9/25/2017	<0.005	
3/14/2018	0.00091 (J)	
9/11/2018	<0.005	
3/12/2019		<0.005
9/9/2019		0.00099 (J)
3/6/2020		<0.005

Prediction Limit

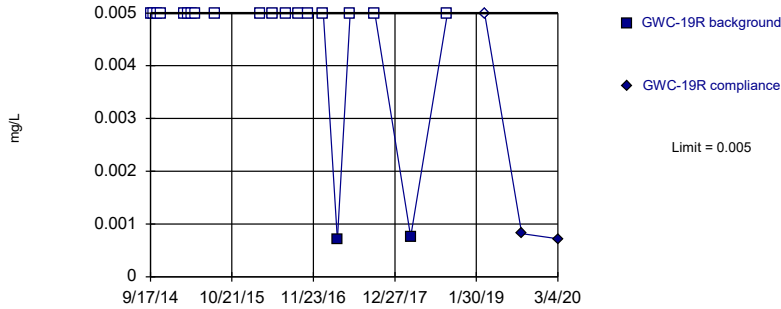
Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	<0.005	
9/12/2016	<0.005	
11/1/2016	<0.005	
1/11/2017	<0.005	
3/20/2017	0.0006 (J)	
5/22/2017	<0.005	
9/21/2017	<0.005	
3/14/2018	0.00057 (J)	
9/7/2018	<0.005	
3/12/2019		<0.005
9/6/2019		<0.005
3/5/2020		0.00042 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

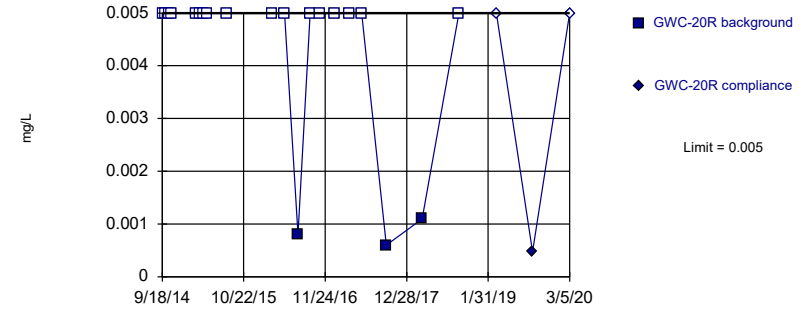


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

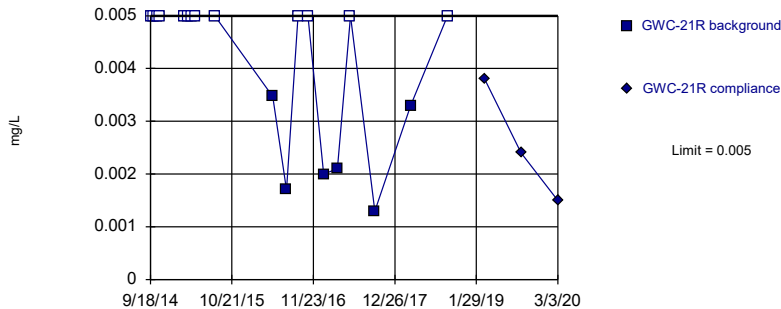


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

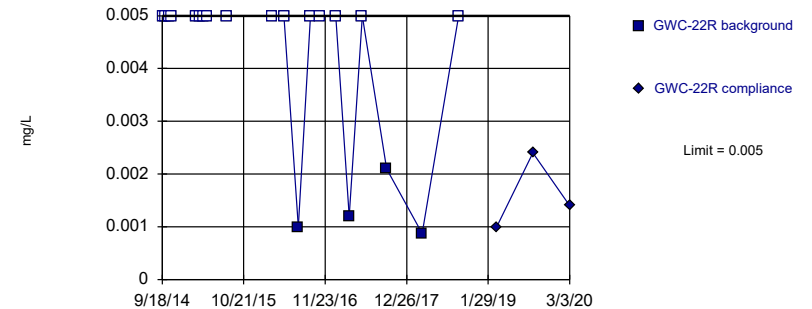


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	<0.005	
3/3/2015	<0.005	
3/19/2015	<0.005	
4/7/2015	<0.005	
4/24/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/9/2016	<0.005	
7/14/2016	<0.005	
9/12/2016	<0.005	
10/31/2016	<0.005	
1/11/2017	<0.005	
3/21/2017	0.0007 (J)	
5/22/2017	<0.005	
9/20/2017	<0.005	
3/14/2018	0.00076 (J)	
9/10/2018	<0.005	
3/12/2019		<0.005
9/9/2019		0.00082 (J)
3/4/2020		0.00072 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/7/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	<0.005	
5/9/2016	<0.005	
7/14/2016	0.0008 (J)	
9/12/2016	<0.005	
10/31/2016	<0.005	
1/12/2017	<0.005	
3/22/2017	<0.005	
5/22/2017	<0.005	
9/19/2017	0.0006 (J)	
3/14/2018	0.0011 (J)	
9/10/2018	<0.005	
3/12/2019		<0.005
9/6/2019		0.00047 (JD)
3/5/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	0.0148 (o)	
5/9/2016	0.00347 (J)	
7/15/2016	0.0017 (J)	
9/9/2016	<0.005	
10/27/2016	<0.005	
1/12/2017	0.002 (J)	
3/21/2017	0.0021 (J)	
5/23/2017	<0.005	
9/19/2017	0.0013 (J)	
3/14/2018	0.0033 (J)	
9/10/2018	<0.005	
3/11/2019		0.0038 (J)
9/6/2019		0.0024 (J)
3/3/2020		0.0015 (J)

Prediction Limit

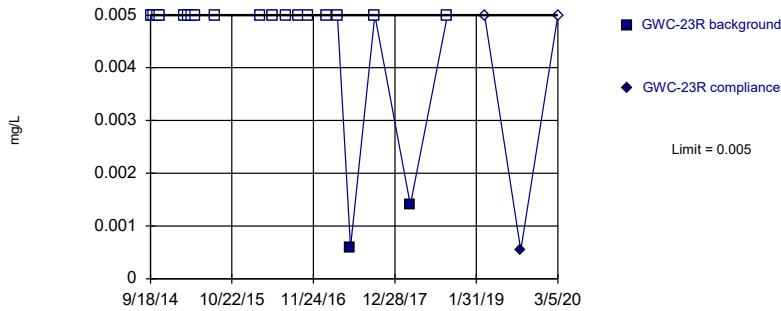
Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:19 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/14/2016	0.001 (J)	
9/12/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/20/2017	0.0012 (J)	
5/23/2017	<0.005	
9/19/2017	0.0021 (J)	
3/13/2018	0.00087 (J)	
9/7/2018	<0.005	
3/11/2019		0.00099 (J)
9/5/2019		0.0024 (J)
3/3/2020		0.0014 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

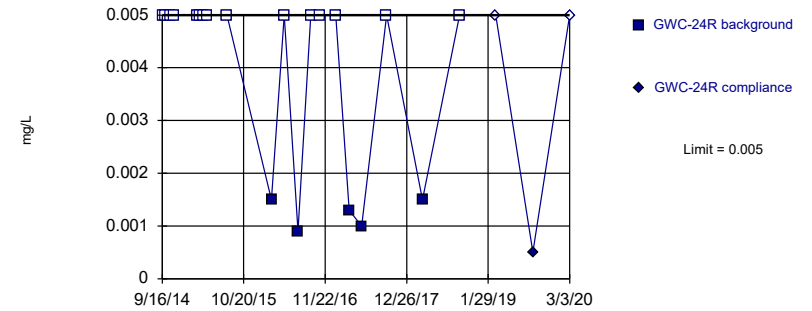


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

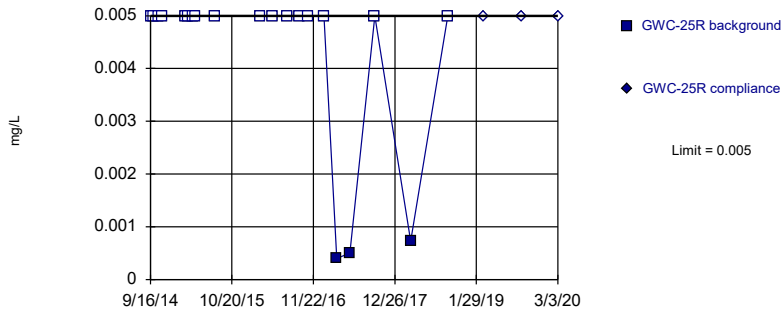


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:12 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

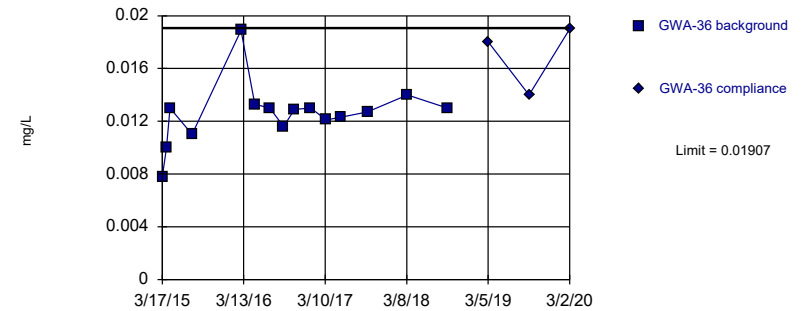


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01257, Std. Dev.=0.002339, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.851, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/8/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/9/2016	<0.005	
5/6/2016	<0.005	
7/15/2016	<0.005	
9/14/2016	<0.005	
11/1/2016	<0.005	
1/25/2017	<0.005	
3/22/2017	<0.005	
5/24/2017	0.0006 (J)	
9/21/2017	<0.005	
3/14/2018	0.0014 (J)	
9/11/2018	<0.005	
3/12/2019		<0.005
9/6/2019		0.00054 (J)
3/5/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/23/2014	<0.005	
11/10/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/8/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/4/2016	0.0015 (J)	
5/5/2016	<0.005	
7/12/2016	0.0009 (J)	
9/13/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/20/2017	0.0013 (J)	
5/19/2017	0.001 (J)	
9/19/2017	<0.005	
3/13/2018	0.0015 (J)	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		0.0005 (JD)
3/3/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/23/2014	<0.005	
11/10/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/9/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	<0.005	
5/4/2016	<0.005	
7/18/2016	<0.005	
9/13/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/16/2017	0.0004 (J)	
5/19/2017	0.0005 (J)	
9/19/2017	<0.005	
3/13/2018	0.00073 (J)	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		<0.005
3/3/2020		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	0.0069	
10/3/2014	0.0045	
10/20/2014	0.0044	
11/10/2014	<0.0013	
3/2/2015	0.0045	
3/17/2015	0.0078	
4/5/2015	0.01	
4/21/2015	0.013	
7/28/2015	0.011	
3/1/2016	0.0189	
5/2/2016	0.0133	
7/7/2016	0.013	
9/7/2016	0.0116	
10/25/2016	0.0129	
1/5/2017	0.013	
3/15/2017	0.0121	
5/17/2017	0.0123	
9/15/2017	0.0127	
3/12/2018	0.014	
9/6/2018	0.013	
3/6/2019		0.018
9/4/2019		0.014
3/2/2020		0.019

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.031	
10/3/2014	0.024	
10/20/2014	0.024	
11/10/2014	0.014	
3/2/2015	0.013	
3/17/2015	0.013	
4/5/2015	0.022	
4/21/2015	0.018	
7/28/2015	0.022	
3/1/2016	0.021	
5/2/2016	0.0225	
7/6/2016	0.0249	
9/7/2016	0.0251	
10/25/2016	0.0274	
1/5/2017	0.028	
3/14/2017	0.02	
5/16/2017	0.0221	
9/15/2017	0.0231	
3/12/2018	0.023	
9/6/2018	0.024	
3/7/2019		0.018
9/4/2019		0.026
3/2/2020		0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.0071	
10/3/2014	0.0087	
10/20/2014	0.0085	
11/10/2014	0.008	
3/2/2015	0.0063	
3/17/2015	0.0066	
4/5/2015	0.0068	
4/22/2015	0.0094	
7/28/2015	0.0057	
3/1/2016	0.0101	
5/3/2016	0.0104	
7/8/2016	0.0095 (J)	
9/7/2016	0.0095 (J)	
10/25/2016	0.0121	
1/6/2017	0.014	
3/14/2017	0.009 (J)	
5/16/2017	0.0084 (J)	
9/15/2017	0.0078 (J)	
3/12/2018	0.006 (J)	
9/6/2018	0.0058 (J)	
3/6/2019		0.0052 (J)
9/4/2019		0.005 (J)
3/2/2020		0.005 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.014	
10/3/2014	0.016	
10/20/2014	0.014	
11/10/2014	0.015	
3/2/2015	0.03 (o)	
3/17/2015	0.018	
4/6/2015	0.014	
4/22/2015	0.012	
7/28/2015	0.012	
3/2/2016	0.0123	
5/3/2016	0.0114	
7/7/2016	0.012	
9/8/2016	0.0131	
10/25/2016	0.0122	
2/9/2017	0.0104	
3/23/2017	0.0128	
5/17/2017	0.0113	
9/19/2017	0.0114	
3/13/2018	0.011	
9/6/2018	0.011	
3/7/2019		0.011
9/4/2019		0.0115 (D)
3/2/2020		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	0.0094	
5/17/2015	0.014	
5/25/2015	0.012	
6/8/2015	0.0094	
6/18/2015	0.0075	
6/24/2015	0.0056	
6/30/2015	0.0047	
7/6/2015	0.0047	
8/12/2015	0.00383 (J)	
5/4/2016	0.0207 (D)	
7/7/2016	0.0207 (D)	
9/8/2016	0.0278 (D)	
10/26/2016	0.0204 (D)	
1/6/2017	0.0221 (D)	
3/15/2017	0.0172 (D)	
5/18/2017	0.0181 (D)	
7/19/2017	0.018 (D)	
9/19/2017	0.0271 (D)	
3/13/2018	0.017	
9/7/2018	0.022	
3/8/2019		0.015
9/4/2019		0.018
3/3/2020		0.017

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	0.033	
5/17/2015	0.04	
5/25/2015	0.039	
6/8/2015	0.031	
6/18/2015	0.039	
6/24/2015	0.042	
6/30/2015	0.033	
7/6/2015	0.031	
8/12/2015	<0.02	
2/29/2016	0.028	
5/4/2016	0.0273	
7/8/2016	0.0284	
9/8/2016	0.0242	
10/26/2016	0.021	
1/6/2017	0.0219	
3/15/2017	0.0202	
5/17/2017	0.0219	
9/15/2017	0.0209	
3/13/2018	0.02	
9/6/2018	0.024	
3/7/2019		0.025
9/4/2019		0.02
3/2/2020		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	0.044	
5/18/2015	0.04	
5/25/2015	0.036	
6/8/2015	0.028	
6/17/2015	0.026	
6/24/2015	0.021	
6/30/2015	0.018	
7/6/2015	0.018	
8/12/2015	<0.02	
3/2/2016	0.017	
5/3/2016	0.016	
7/8/2016	0.0156	
9/8/2016	0.0144	
10/26/2016	0.0128	
1/9/2017	0.0134	
3/16/2017	0.0129	
5/19/2017	0.0141	
9/19/2017	0.0127	
3/13/2018	0.013	
9/11/2018	0.013	
3/8/2019		0.012
9/5/2019		0.013
3/4/2020		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	0.014	
5/17/2015	0.015	
5/25/2015	0.014	
6/8/2015	0.014	
6/18/2015	0.013	
6/24/2015	0.014	
6/30/2015	0.014	
7/6/2015	0.013	
8/12/2015	0.015 (J)	
3/2/2016	0.015	
5/3/2016	0.0144	
7/11/2016	0.0145	
9/7/2016	0.014	
10/27/2016	0.0142	
1/6/2017	0.0139	
3/16/2017	0.0145	
5/19/2017	0.0161	
9/19/2017	0.0153	
3/13/2018	0.015	
9/11/2018	0.015	
3/12/2019		0.016
9/5/2019		0.014
3/4/2020		0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	0.054	
5/18/2015	0.058	
5/25/2015	0.051	
6/9/2015	0.034	
6/17/2015	0.032	
6/25/2015	0.032	
7/1/2015	0.029	
7/7/2015	0.029	
8/12/2015	<0.02	
3/2/2016	0.0297	
5/4/2016	0.0299	
7/8/2016	0.0294	
9/8/2016	0.0275	
10/26/2016	0.0263	
1/9/2017	0.0263	
3/15/2017	0.0262	
5/18/2017	0.0276	
9/15/2017	0.0281	
3/13/2018	0.034	
9/6/2018	0.04	
3/7/2019		0.039
9/5/2019		0.034
3/3/2020		0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	0.022	
5/18/2015	0.031	
5/26/2015	0.028	
6/9/2015	0.031	
6/17/2015	0.029	
6/25/2015	0.024	
7/1/2015	0.026	
7/7/2015	0.027	
8/12/2015	<0.02	
3/2/2016	0.0276	
5/3/2016	0.0291	
7/11/2016	0.0225	
9/9/2016	0.018	
10/26/2016	0.0177	
1/9/2017	0.0183	
3/16/2017	0.0175	
5/18/2017	0.0203	
9/15/2017	0.0197	
3/12/2018	0.023	
9/7/2018	0.025	
3/8/2019		0.027
9/5/2019		0.024
3/3/2020		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	0.042	
5/18/2015	0.063	
5/26/2015	0.057	
6/9/2015	0.07	
6/17/2015	0.065	
6/25/2015	0.068	
7/1/2015	0.069	
7/7/2015	0.071	
8/12/2015	<0.02	
3/3/2016	0.0424	
5/3/2016	0.0477	
7/11/2016	0.0506	
9/9/2016	0.0478	
10/27/2016	0.0472	
1/9/2017	0.0507	
3/16/2017	0.0497	
5/18/2017	0.0466	
9/18/2017	0.0436	
3/12/2018	0.041	
9/7/2018	0.039	
3/7/2019		0.033
9/5/2019		0.032
3/4/2020		0.029

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	0.018	
5/19/2015	0.02	
5/26/2015	0.02	
6/9/2015	0.02	
6/17/2015	0.019	
6/25/2015	0.019	
7/1/2015	0.018	
7/7/2015	0.019	
8/12/2015	<0.02	
3/3/2016	0.0259	
5/9/2016	0.0236	
7/11/2016	0.0295	
9/9/2016	0.0259	
10/26/2016	0.0231	
1/9/2017	0.0273	
3/15/2017	0.0286	
5/18/2017	0.0253	
9/15/2017	0.0247	
3/13/2018	0.031	
9/7/2018	0.034	
3/7/2019		0.042
9/4/2019		0.033
3/4/2020		0.039

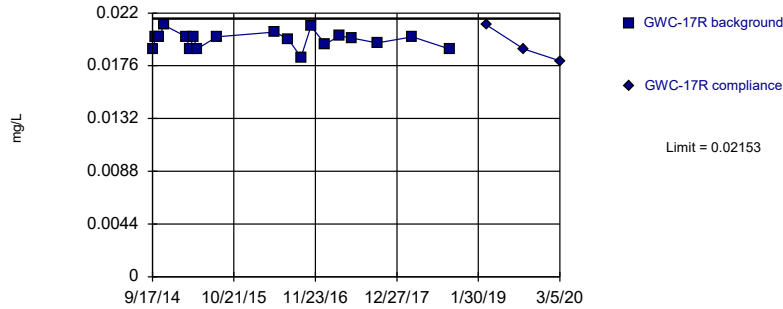
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.069	
10/4/2014	0.057	
10/21/2014	0.056	
11/11/2014	0.05	
3/3/2015	0.045	
3/18/2015	0.044	
4/6/2015	0.045	
4/23/2015	0.041	
7/29/2015	0.043	
3/3/2016	0.0806 (D)	
5/10/2016	0.0495	
7/13/2016	0.0374	
9/15/2016	0.0542	
11/2/2016	0.0561	
1/11/2017	0.0401	
3/20/2017	0.0383	
5/23/2017	0.0376	
9/21/2017	0.0418	
3/14/2018	0.036	
9/7/2018	0.047	
3/11/2019		0.044
9/9/2019		0.03
3/4/2020		0.045

Within Limit

Prediction Limit
Intrawell Parametric

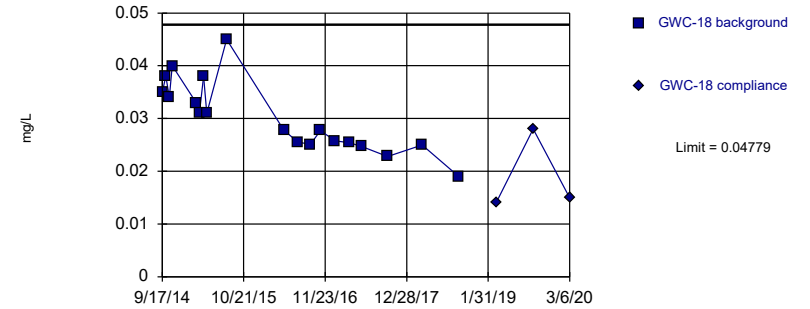


Background Data Summary: Mean=0.01975, Std. Dev.=0.0006818, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

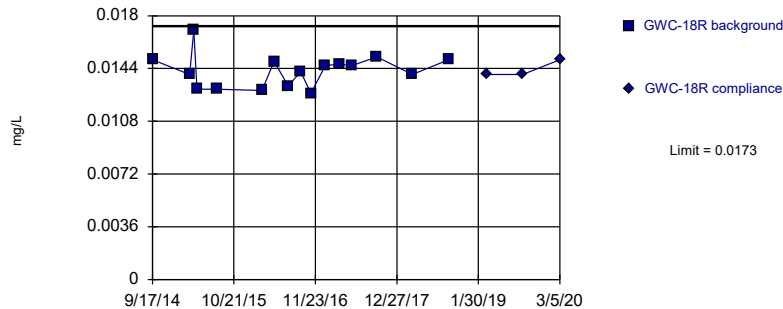


Background Data Summary: Mean=0.0302, Std. Dev.=0.006763, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9507, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

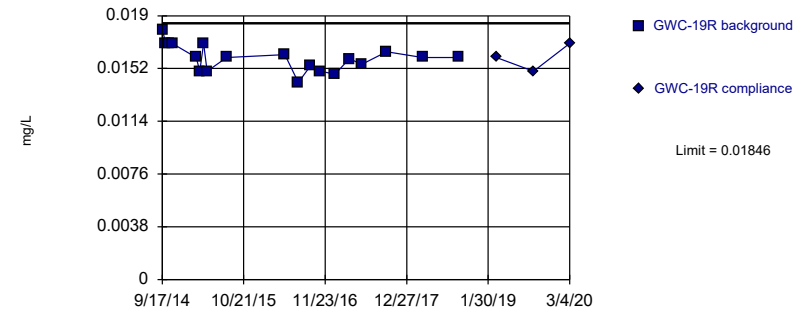


Background Data Summary: Mean=0.01425, Std. Dev.=0.001127, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9188, critical = 0.844. Kappa = 2.709 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01597, Std. Dev.=0.0009569, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	0.019	
10/4/2014	0.02	
10/21/2014	0.02	
11/11/2014	0.021	
3/3/2015	0.02	
3/18/2015	0.019	
4/6/2015	0.02	
4/23/2015	0.019	
7/29/2015	0.02	
3/4/2016	0.0262 (Jo)	
5/10/2016	0.0204	
7/14/2016	0.0198	
9/14/2016	0.0183	
11/1/2016	0.0209	
1/11/2017	0.0194	
3/21/2017	0.0201	
5/23/2017	0.0199	
9/22/2017	0.0195	
3/14/2018	0.02	
9/11/2018	0.019	
3/12/2019		0.021
9/10/2019		0.019
3/5/2020		0.018

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	0.035	
10/4/2014	0.038	
10/21/2014	0.034	
11/5/2014	0.04	
3/3/2015	0.033	
3/18/2015	0.031	
4/7/2015	0.038	
4/23/2015	0.031	
7/29/2015	0.045	
3/7/2016	<3 (o)	
5/5/2016	0.0278	
7/13/2016	0.0255	
9/13/2016	0.0251	
10/31/2016	0.0277	
1/12/2017	0.0258	
3/23/2017	0.0254	
5/23/2017	0.0247	
9/25/2017	0.0228	
3/14/2018	0.025	
9/11/2018	0.019	
3/12/2019		0.014
9/9/2019		0.028
3/6/2020		0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.015	
10/4/2014	<0.0013 (o)	
10/21/2014	0.027 (o)	
11/11/2014	0.028 (o)	
3/3/2015	0.034 (o)	
3/18/2015	0.014	
4/7/2015	0.017	
4/23/2015	0.013	
7/29/2015	0.013	
3/7/2016	0.0129	
5/5/2016	0.0149	
7/13/2016	0.0132	
9/12/2016	0.0142	
11/1/2016	0.0127	
1/11/2017	0.0146	
3/20/2017	0.0147	
5/22/2017	0.0146	
9/21/2017	0.0152	
3/14/2018	0.014	
9/7/2018	0.015	
3/12/2019		0.014
9/6/2019		0.014
3/5/2020		0.015

Prediction Limit

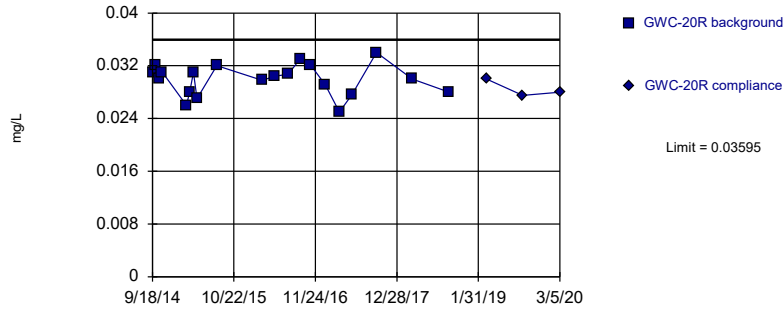
Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	0.018	
10/4/2014	0.017	
10/21/2014	0.017	
11/5/2014	0.017	
3/3/2015	0.016	
3/19/2015	0.015	
4/7/2015	0.017	
4/24/2015	0.015	
7/29/2015	0.016	
3/7/2016	<3 (o)	
5/9/2016	0.0162	
7/14/2016	0.0142	
9/12/2016	0.0154	
10/31/2016	0.015	
1/11/2017	0.0148	
3/21/2017	0.0159	
5/22/2017	0.0155	
9/20/2017	0.0164	
3/14/2018	0.016	
9/10/2018	0.016	
3/12/2019		0.016
9/9/2019		0.015
3/4/2020		0.017

Within Limit

Prediction Limit
Intrawell Parametric

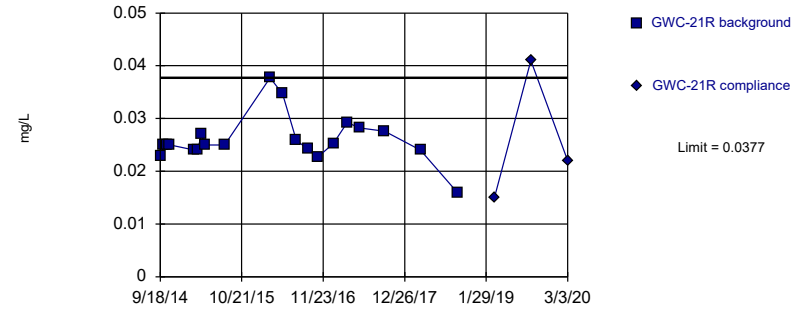


Background Data Summary: Mean=0.02989, Std. Dev.=0.002362, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

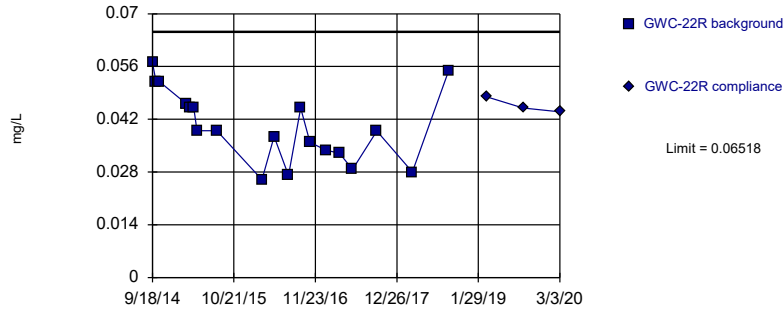


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

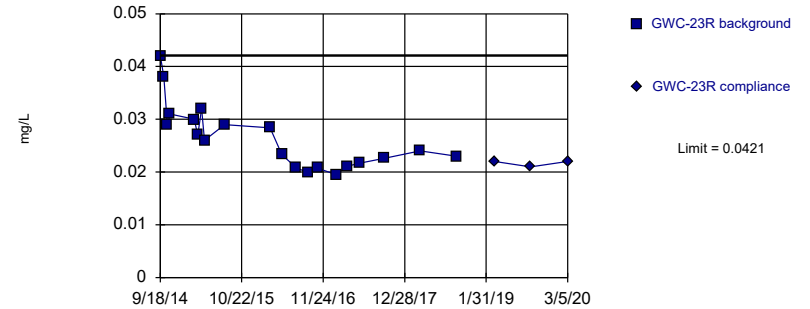


Background Data Summary: Mean=0.0402, Std. Dev.=0.009605, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.951, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02645, Std. Dev.=0.006104, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8978, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	0.031	
10/5/2014	0.032	
10/22/2014	0.03	
11/5/2014	0.031	
3/4/2015	0.026	
3/19/2015	0.028	
4/7/2015	0.031	
4/24/2015	0.027	
7/30/2015	0.032	
3/8/2016	0.0298	
5/9/2016	0.0304	
7/14/2016	0.0307	
9/12/2016	0.0331	
10/31/2016	0.0321	
1/12/2017	0.0291	
3/22/2017	0.025	
5/22/2017	0.0276	
9/19/2017	0.034	
3/14/2018	0.03	
9/10/2018	0.028	
3/12/2019		0.03
9/6/2019		0.0275 (D)
3/5/2020		0.028

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	0.023	
10/5/2014	0.025	
10/22/2014	0.025	
11/5/2014	0.025	
3/4/2015	0.024	
3/19/2015	0.024	
4/8/2015	0.027	
4/24/2015	0.025	
7/30/2015	0.025	
3/8/2016	0.0377	
5/9/2016	0.0347	
7/15/2016	0.0259	
9/9/2016	0.0242	
10/27/2016	0.0227	
1/12/2017	0.0253	
3/21/2017	0.0292	
5/23/2017	0.0282	
9/19/2017	0.0276	
3/14/2018	0.024	
9/10/2018	0.016	
3/11/2019		0.015
9/6/2019		0.041
3/3/2020		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	0.057	
10/5/2014	0.052	
10/22/2014	0.052	
11/5/2014	<0.0013 (o)	
3/4/2015	0.046	
3/19/2015	0.045	
4/8/2015	0.045	
4/24/2015	0.039	
7/30/2015	0.039	
3/7/2016	0.026	
5/5/2016	0.0374	
7/14/2016	0.0271	
9/12/2016	0.045	
10/27/2016	0.0359	
1/13/2017	0.0338	
3/20/2017	0.033	
5/23/2017	0.0287	
9/19/2017	0.0389	
3/13/2018	0.028	
9/7/2018	0.055	
3/11/2019		0.048
9/5/2019		0.045
3/3/2020		0.044

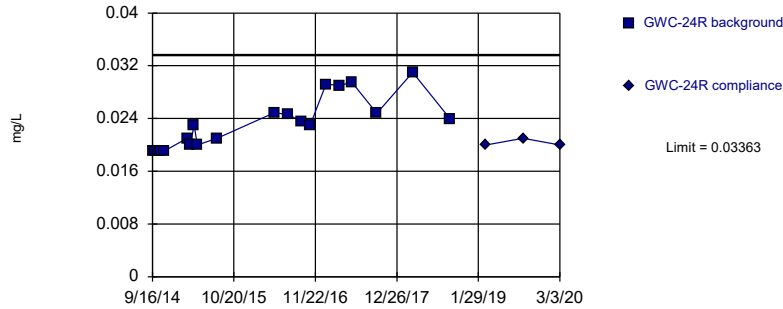
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	0.042	
10/5/2014	0.038	
10/22/2014	0.029	
11/5/2014	0.031	
3/4/2015	0.03	
3/20/2015	0.027	
4/8/2015	0.032	
4/23/2015	0.026	
7/30/2015	0.029	
3/9/2016	0.0284 (J)	
5/6/2016	0.0233	
7/15/2016	0.0208	
9/14/2016	0.0198	
11/1/2016	0.0207	
1/25/2017	0.0195	
3/22/2017	0.0211	
5/24/2017	0.0217	
9/21/2017	0.0226	
3/14/2018	0.024	
9/11/2018	0.023	
3/12/2019		0.022
9/6/2019		0.021
3/5/2020		0.022

Within Limit

Prediction Limit
Intrawell Parametric

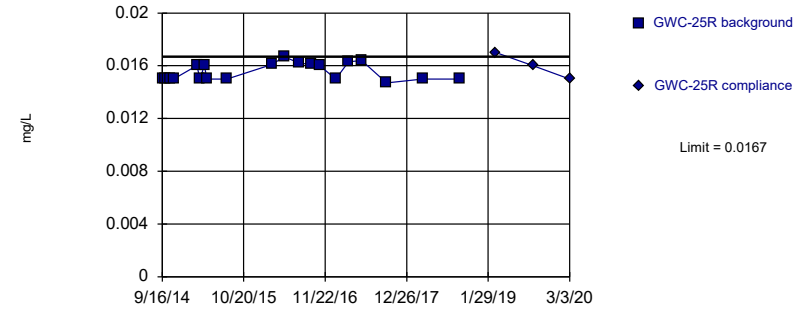


Background Data Summary: Mean=0.02339, Std. Dev.=0.003934, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8951, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

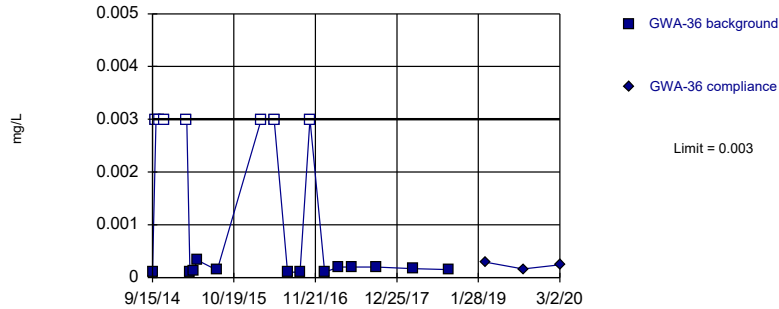


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Barium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

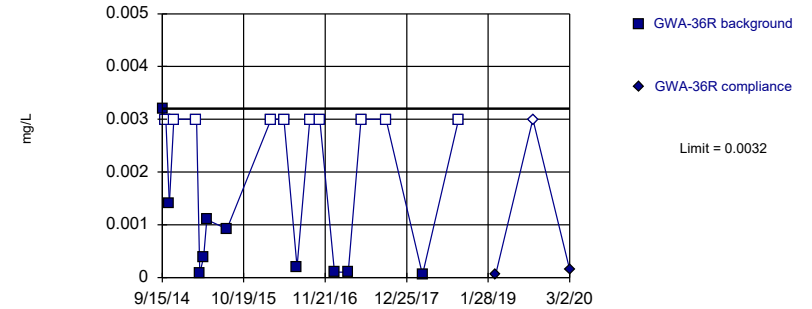


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 35% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	0.019	
10/4/2014	0.019	
10/23/2014	0.019	
11/10/2014	0.019	
3/4/2015	0.021	
3/20/2015	0.02	
4/8/2015	0.023	
4/23/2015	0.02	
7/30/2015	0.021	
3/4/2016	0.0422 (o)	
5/5/2016	0.0249	
7/12/2016	0.0246	
9/13/2016	0.0236	
10/27/2016	0.0229	
1/13/2017	0.0292	
3/20/2017	0.029	
5/19/2017	0.0295	
9/19/2017	0.0248	
3/13/2018	0.031	
9/11/2018	0.024	
3/8/2019		0.02
9/5/2019		0.021 (D)
3/3/2020		0.02

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	0.015	
10/4/2014	0.015	
10/23/2014	0.015	
11/10/2014	0.015	
3/4/2015	0.016	
3/20/2015	0.015	
4/9/2015	0.016	
4/23/2015	0.015	
7/30/2015	0.015	
3/8/2016	0.0161	
5/4/2016	0.0167	
7/18/2016	0.0162	
9/13/2016	0.0161	
10/27/2016	0.016	
1/13/2017	0.015	
3/16/2017	0.0163	
5/19/2017	0.0164	
9/19/2017	0.0147	
3/13/2018	0.015	
9/11/2018	0.015	
3/8/2019		0.017
9/5/2019		0.016
3/3/2020		0.015

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	0.00011 (J)	
10/3/2014	<0.003	
10/20/2014	<0.003	
11/10/2014	<0.003	
3/2/2015	<0.003	
3/17/2015	0.0001 (J)	
4/5/2015	0.00012 (J)	
4/21/2015	0.00033 (J)	
7/28/2015	0.00014 (J)	
3/1/2016	<0.003	
5/2/2016	<0.003	
7/7/2016	0.0001 (J)	
9/7/2016	0.0001 (J)	
10/25/2016	<0.003	
1/5/2017	0.0001 (J)	
3/15/2017	0.0002 (J)	
5/17/2017	0.0002 (J)	
9/15/2017	0.0002 (J)	
3/12/2018	0.00017 (J)	
9/6/2018	0.00015 (J)	
3/6/2019		0.00029 (J)
9/4/2019		0.00016 (J)
3/2/2020		0.00024 (J)

Prediction Limit

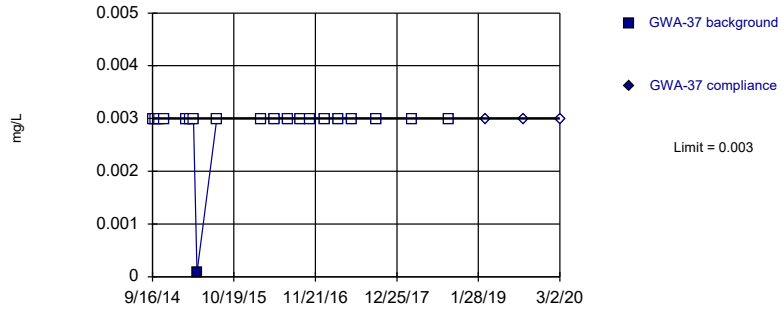
Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0032	
10/3/2014	<0.003	
10/20/2014	0.0014	
11/10/2014	<0.003	
3/2/2015	<0.003	
3/17/2015	8.3E-05 (J)	
4/5/2015	0.00038 (J)	
4/21/2015	0.0011 (J)	
7/28/2015	0.00092 (J)	
3/1/2016	<0.003	
5/2/2016	<0.003	
7/6/2016	0.0002 (J)	
9/7/2016	<0.003	
10/25/2016	<0.003	
1/5/2017	0.0001 (J)	
3/14/2017	0.0001 (J)	
5/16/2017	<0.003	
9/15/2017	<0.003	
3/12/2018	5.6E-05 (J)	
9/6/2018	<0.003	
3/7/2019		6.8E-05 (J)
9/4/2019		<0.003
3/2/2020		0.00015 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

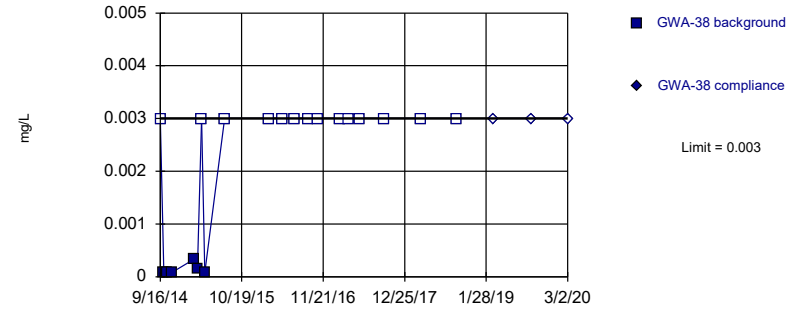


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

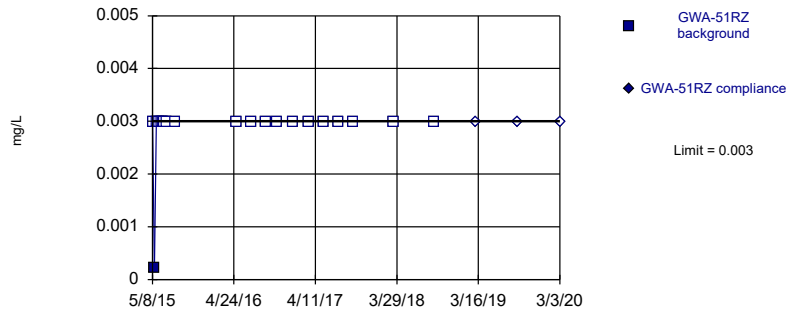


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

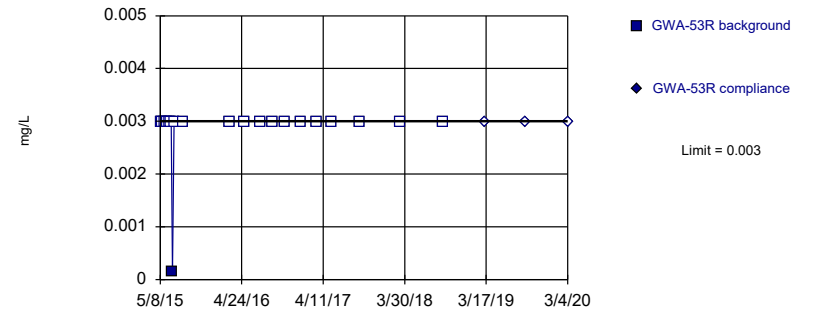


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.003	
10/3/2014	<0.003	
10/20/2014	<0.003	
11/10/2014	<0.003	
3/2/2015	<0.003	
3/17/2015	<0.003	
4/5/2015	<0.003	
4/22/2015	8.3E-05 (J)	
7/28/2015	<0.003	
3/1/2016	<0.003	
5/3/2016	<0.003	
7/8/2016	<0.003	
9/7/2016	<0.003	
10/25/2016	<0.003	
1/6/2017	<0.003	
3/14/2017	<0.003	
5/16/2017	<0.003	
9/15/2017	<0.003	
3/12/2018	<0.003	
9/6/2018	<0.003	
3/6/2019		<0.003
9/4/2019		<0.003
3/2/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	<0.003	
10/3/2014	8.3E-05 (J)	
10/20/2014	7.8E-05 (J)	
11/10/2014	8E-05 (J)	
3/2/2015	0.00034 (J)	
3/17/2015	0.00014 (J)	
4/6/2015	<0.003	
4/22/2015	7.8E-05 (J)	
7/28/2015	<0.003	
3/2/2016	<0.003	
5/3/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/25/2016	<0.003	
2/9/2017	<0.003	
3/23/2017	<0.003	
5/17/2017	<0.003	
9/19/2017	<0.003	
3/13/2018	<0.003	
9/6/2018	<0.003	
3/7/2019		<0.003
9/4/2019		<0.003 (D)
3/2/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.003	
5/17/2015	0.00022 (J)	
5/25/2015	<0.003	
6/8/2015	<0.003	
6/18/2015	<0.003	
6/24/2015	<0.003	
6/30/2015	<0.003	
7/6/2015	<0.003	
8/12/2015	<0.003	
5/4/2016	<0.003 (D)	
7/7/2016	<0.003 (D)	
9/8/2016	<0.003 (D)	
10/26/2016	<0.003 (D)	
1/6/2017	<0.003 (D)	
3/15/2017	<0.003 (D)	
5/18/2017	<0.003 (D)	
7/19/2017	<0.003 (D)	
9/19/2017	<0.003 (D)	
3/13/2018	<0.003	
9/7/2018	<0.003	
3/8/2019		<0.003
9/4/2019		<0.003
3/3/2020		<0.003

Prediction Limit

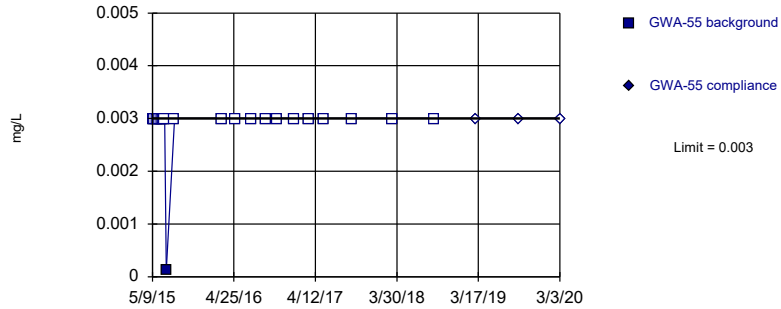
Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.003	
5/17/2015	<0.003	
5/25/2015	<0.003	
6/8/2015	<0.003	
6/18/2015	<0.003	
6/24/2015	<0.003	
6/30/2015	0.00014 (J)	
7/6/2015	<0.003	
8/12/2015	<0.003	
3/2/2016	<0.003	
5/3/2016	<0.003	
7/11/2016	<0.003	
9/7/2016	<0.003	
10/27/2016	<0.003	
1/6/2017	<0.003	
3/16/2017	<0.003	
5/19/2017	<0.003	
9/19/2017	<0.003	
3/13/2018	<0.003	
9/11/2018	<0.003	
3/12/2019		<0.003
9/5/2019		<0.003
3/4/2020		<0.003

Within Limit

Prediction Limit Intrawell Non-parametric

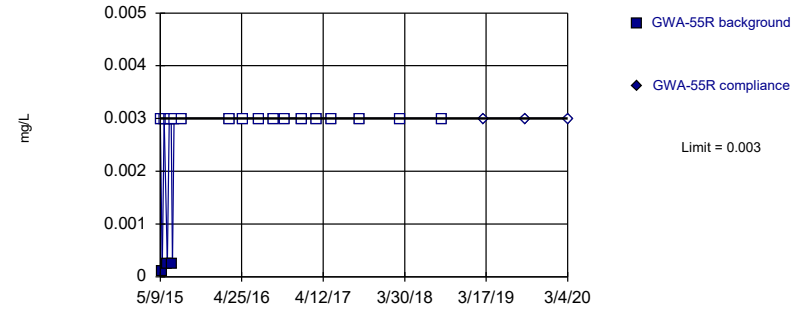


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

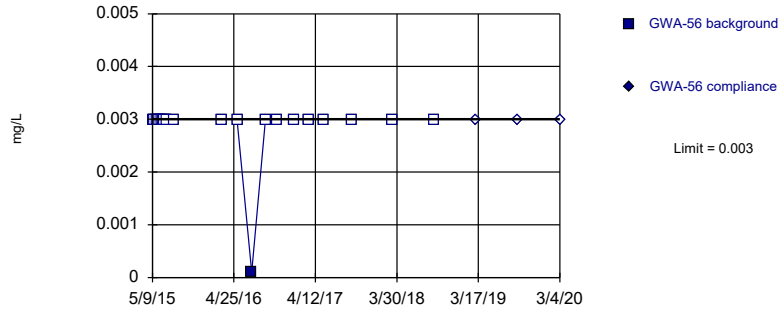


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

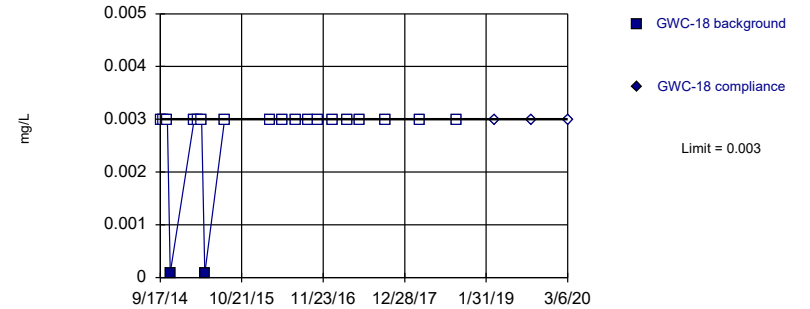


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.003	
5/18/2015	<0.003	
5/26/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	0.00012 (J)	
8/12/2015	<0.003	
3/2/2016	<0.003	
5/3/2016	<0.003	
7/11/2016	<0.003	
9/9/2016	<0.003	
10/26/2016	<0.003	
1/9/2017	<0.003	
3/16/2017	<0.003	
5/18/2017	<0.003	
9/15/2017	<0.003	
3/12/2018	<0.003	
9/7/2018	<0.003	
3/8/2019		<0.003
9/5/2019		<0.003
3/3/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.003	
5/18/2015	0.00011 (J)	
5/26/2015	<0.003	
6/9/2015	0.00025 (J)	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	0.00024 (J)	
7/7/2015	<0.003	
8/12/2015	<0.003	
3/3/2016	<0.003	
5/3/2016	<0.003	
7/11/2016	<0.003	
9/9/2016	<0.003	
10/27/2016	<0.003	
1/9/2017	<0.003	
3/16/2017	<0.003	
5/18/2017	<0.003	
9/18/2017	<0.003	
3/12/2018	<0.003	
9/7/2018	<0.003	
3/7/2019		<0.003
9/5/2019		<0.003
3/4/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.003	
5/19/2015	<0.003	
5/26/2015	<0.003	
6/9/2015	<0.003	
6/17/2015	<0.003	
6/25/2015	<0.003	
7/1/2015	<0.003	
7/7/2015	<0.003	
8/12/2015	<0.003	
3/3/2016	<0.003	
5/9/2016	<0.003	
7/11/2016	0.0001 (J)	
9/9/2016	<0.003	
10/26/2016	<0.003	
1/9/2017	<0.003	
3/15/2017	<0.003	
5/18/2017	<0.003	
9/15/2017	<0.003	
3/13/2018	<0.003	
9/7/2018	<0.003	
3/7/2019		<0.003
9/4/2019		<0.003
3/4/2020		<0.003

Prediction Limit

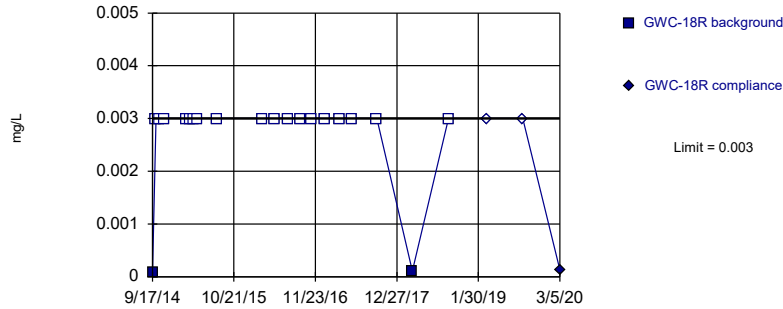
Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.003	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/5/2014	9E-05 (J)	
3/3/2015	<0.003	
3/18/2015	<0.003	
4/7/2015	<0.003	
4/23/2015	7.8E-05 (J)	
7/29/2015	<0.003	
3/7/2016	<0.003	
5/5/2016	<0.003	
7/13/2016	<0.003	
9/13/2016	<0.003	
10/31/2016	<0.003	
1/12/2017	<0.003	
3/23/2017	<0.003	
5/23/2017	<0.003	
9/25/2017	<0.003	
3/14/2018	<0.003	
9/11/2018	<0.003	
3/12/2019		<0.003
9/9/2019		<0.003
3/6/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

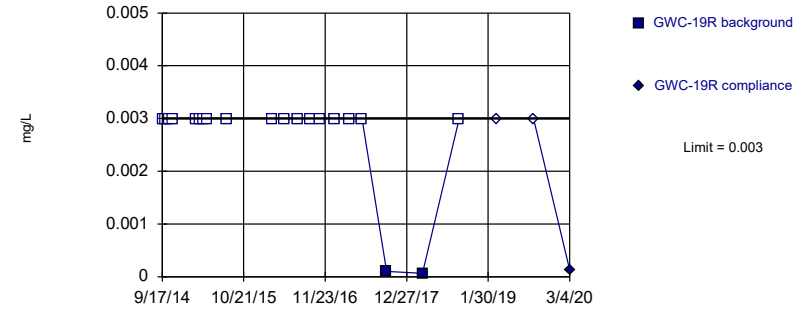


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

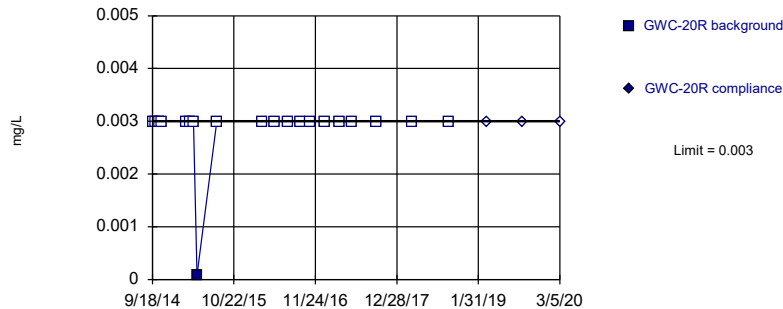


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

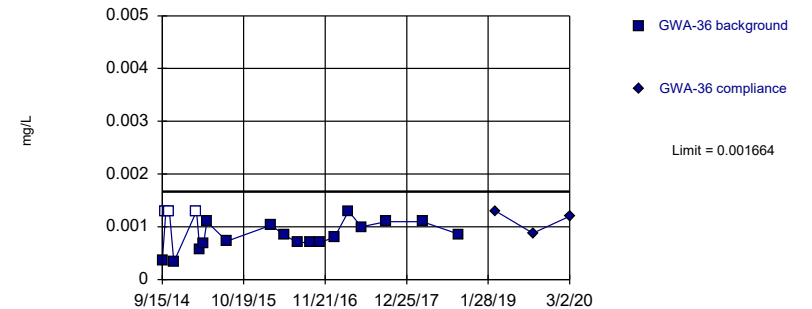


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0008898, Std. Dev.=0.000302, n=20, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	7.8E-05 (J)	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/11/2014	<0.003	
3/3/2015	<0.003	
3/18/2015	<0.003	
4/7/2015	<0.003	
4/23/2015	<0.003	
7/29/2015	<0.003	
3/7/2016	<0.003	
5/5/2016	<0.003	
7/13/2016	<0.003	
9/12/2016	<0.003	
11/1/2016	<0.003	
1/11/2017	<0.003	
3/20/2017	<0.003	
5/22/2017	<0.003	
9/21/2017	<0.003	
3/14/2018	0.00011 (J)	
9/7/2018	<0.003	
3/12/2019		<0.003
9/6/2019		<0.003
3/5/2020		0.00013 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.003	
10/4/2014	<0.003	
10/21/2014	<0.003	
11/5/2014	<0.003	
3/3/2015	<0.003	
3/19/2015	<0.003	
4/7/2015	<0.003	
4/24/2015	<0.003	
7/29/2015	<0.003	
3/7/2016	<0.003	
5/9/2016	<0.003	
7/14/2016	<0.003	
9/12/2016	<0.003	
10/31/2016	<0.003	
1/11/2017	<0.003	
3/21/2017	<0.003	
5/22/2017	<0.003	
9/20/2017	0.0001 (J)	
3/14/2018	6.5E-05 (J)	
9/10/2018	<0.003	
3/12/2019		<0.003
9/9/2019		<0.003
3/4/2020		0.00013 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.003	
10/5/2014	<0.003	
10/22/2014	<0.003	
11/5/2014	<0.003	
3/4/2015	<0.003	
3/19/2015	<0.003	
4/7/2015	<0.003	
4/24/2015	8.3E-05 (J)	
7/30/2015	<0.003	
3/8/2016	<0.003	
5/9/2016	<0.003	
7/14/2016	<0.003	
9/12/2016	<0.003	
10/31/2016	<0.003	
1/12/2017	<0.003	
3/22/2017	<0.003	
5/22/2017	<0.003	
9/19/2017	<0.003	
3/14/2018	<0.003	
9/10/2018	<0.003	
3/12/2019		<0.003
9/6/2019		<0.003 (D)
3/5/2020		<0.003

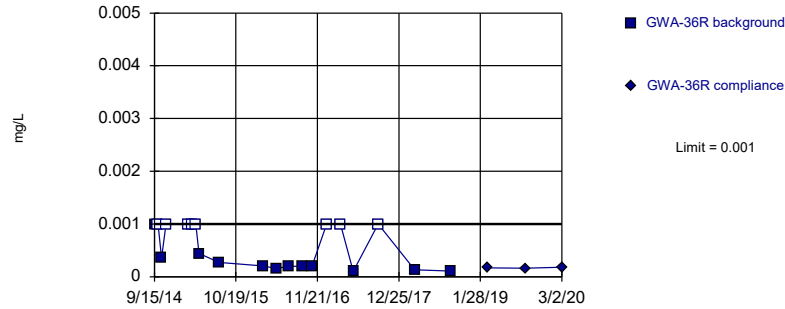
Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	0.00035 (J)	
10/3/2014	<0.0013	
10/20/2014	<0.0013	
11/10/2014	0.00033 (J)	
3/2/2015	<0.0013	
3/17/2015	0.00057 (J)	
4/5/2015	0.00068 (J)	
4/21/2015	0.0011 (J)	
7/28/2015	0.00073 (J)	
3/1/2016	0.00103	
5/2/2016	0.000846 (J)	
7/7/2016	0.0007 (J)	
9/7/2016	0.0007 (J)	
10/25/2016	0.0007 (J)	
1/5/2017	0.0008 (J)	
3/15/2017	0.0013	
5/17/2017	0.001	
9/15/2017	0.0011	
3/12/2018	0.0011	
9/6/2018	0.00086 (J)	
3/6/2019		0.0013
9/4/2019		0.00088 (J)
3/2/2020		0.0012 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

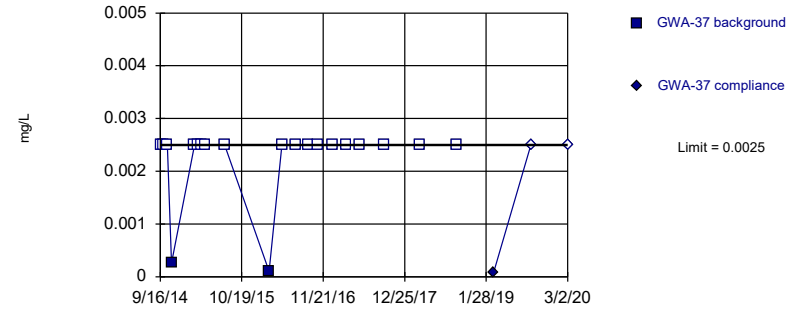


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

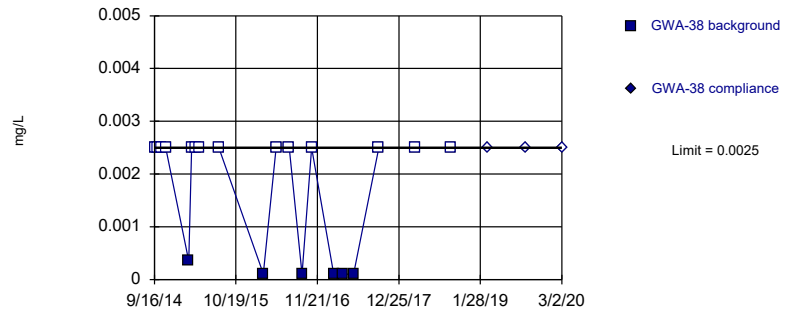


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

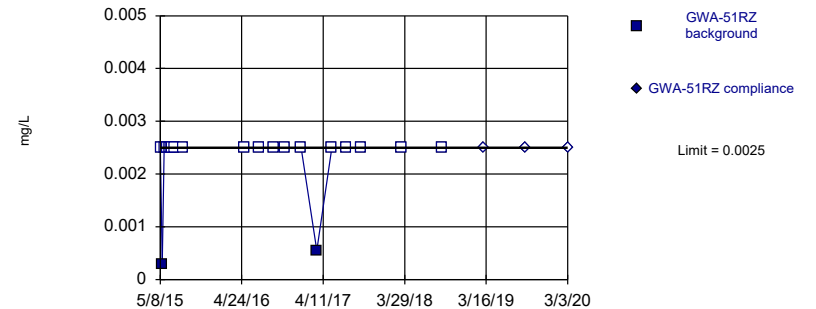


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.001 (J)	
10/3/2014	<0.001	
10/20/2014	0.00036 (J)	
11/10/2014	<0.001	
3/2/2015	<0.001	
3/17/2015	<0.001	
4/5/2015	<0.001	
4/21/2015	0.00044 (J)	
7/28/2015	0.00027 (J)	
3/1/2016	0.000207 (J)	
5/2/2016	0.000154 (J)	
7/6/2016	0.0002 (J)	
9/7/2016	0.0002 (J)	
10/25/2016	0.0002 (J)	
1/5/2017	<0.001	
3/14/2017	<0.001	
5/16/2017	0.0001 (J)	
9/15/2017	<0.001	
3/12/2018	0.00013 (J)	
9/6/2018	0.00011 (J)	
3/7/2019		0.00017 (J)
9/4/2019		0.00016 (J)
3/2/2020		0.00018 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.0025	
10/3/2014	<0.0025	
10/20/2014	<0.0025	
11/10/2014	0.00026 (J)	
3/2/2015	<0.0025	
3/17/2015	<0.0025	
4/5/2015	<0.0025	
4/22/2015	<0.0025	
7/28/2015	<0.0025	
3/1/2016	0.000103 (J)	
5/3/2016	<0.0025	
7/8/2016	<0.0025	
9/7/2016	<0.0025	
10/25/2016	<0.0025	
1/6/2017	<0.0025	
3/14/2017	<0.0025	
5/16/2017	<0.0025	
9/15/2017	<0.0025	
3/12/2018	<0.0025	
9/6/2018	<0.0025	
3/6/2019		9.3E-05 (J)
9/4/2019		<0.0025
3/2/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	<0.0025	
10/3/2014	<0.0025	
10/20/2014	<0.0025	
11/10/2014	<0.0025	
3/2/2015	0.00035 (J)	
3/17/2015	<0.0025	
4/6/2015	<0.0025	
4/22/2015	<0.0025	
7/28/2015	<0.0025	
3/2/2016	0.000109 (J)	
5/3/2016	<0.0025	
7/7/2016	<0.0025	
9/8/2016	0.0001 (J)	
10/25/2016	<0.0025	
2/9/2017	0.0001 (J)	
3/23/2017	0.0001 (J)	
5/17/2017	0.0001 (J)	
9/19/2017	<0.0025	
3/13/2018	<0.0025	
9/6/2018	<0.0025	
3/7/2019		<0.0025
9/4/2019		<0.0025 (D)
3/2/2020		<0.0025

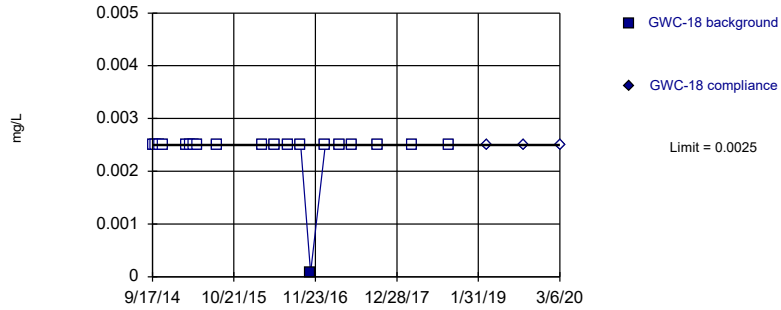
Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.0025	
5/17/2015	0.00029 (J)	
5/25/2015	<0.0025	
6/8/2015	<0.0025	
6/18/2015	<0.0025	
6/24/2015	<0.0025	
6/30/2015	<0.0025	
7/6/2015	<0.0025	
8/12/2015	<0.0025	
5/4/2016	<0.0025 (D)	
7/7/2016	<0.0025 (D)	
9/8/2016	<0.0025 (D)	
10/26/2016	<0.0025 (D)	
1/6/2017	<0.0025 (D)	
3/15/2017	0.00055 (D)	
5/18/2017	<0.0025 (D)	
7/19/2017	<0.0025 (D)	
9/19/2017	<0.0025 (D)	
3/13/2018	<0.0025	
9/7/2018	<0.0025	
3/8/2019		<0.0025
9/4/2019		<0.0025
3/3/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

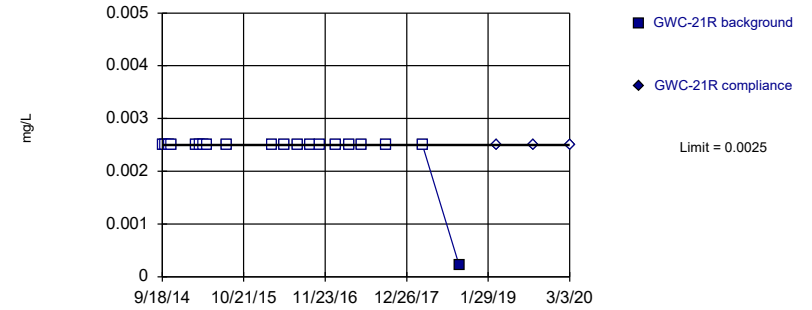


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

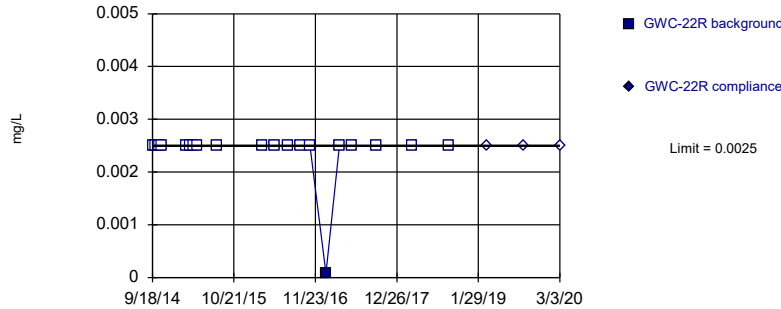


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

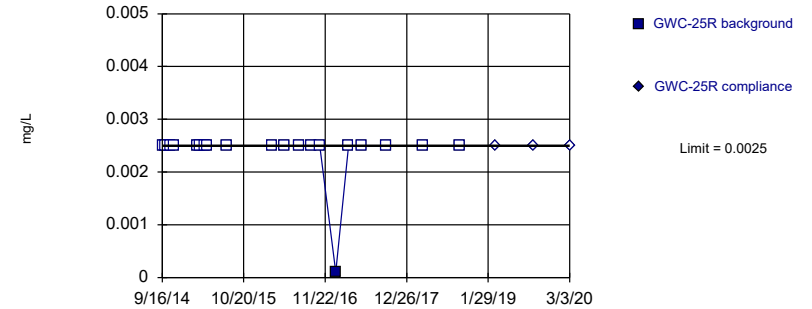


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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: Cadmium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.0025	
10/4/2014	<0.0025	
10/21/2014	<0.0025	
11/5/2014	<0.0025	
3/3/2015	<0.0025	
3/18/2015	<0.0025	
4/7/2015	<0.0025	
4/23/2015	<0.0025	
7/29/2015	<0.0025	
3/7/2016	<0.0025	
5/5/2016	<0.0025	
7/13/2016	<0.0025	
9/13/2016	<0.0025	
10/31/2016	8E-05 (J)	
1/12/2017	<0.0025	
3/23/2017	<0.0025	
5/23/2017	<0.0025	
9/25/2017	<0.0025	
3/14/2018	<0.0025	
9/11/2018	<0.0025	
3/12/2019		<0.0025
9/9/2019		<0.0025
3/6/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.0025	
10/5/2014	<0.0025	
10/22/2014	<0.0025	
11/5/2014	<0.0025	
3/4/2015	<0.0025	
3/19/2015	<0.0025	
4/8/2015	<0.0025	
4/24/2015	<0.0025	
7/30/2015	<0.0025	
3/8/2016	<0.0025	
5/9/2016	<0.0025	
7/15/2016	<0.0025	
9/9/2016	<0.0025	
10/27/2016	<0.0025	
1/12/2017	<0.0025	
3/21/2017	<0.0025	
5/23/2017	<0.0025	
9/19/2017	<0.0025	
3/14/2018	<0.0025	
9/10/2018	0.00021 (J)	
3/11/2019		<0.0025
9/6/2019		<0.0025
3/3/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.0025	
10/5/2014	<0.0025	
10/22/2014	<0.0025	
11/5/2014	<0.0025	
3/4/2015	<0.0025	
3/19/2015	<0.0025	
4/8/2015	<0.0025	
4/24/2015	<0.0025	
7/30/2015	<0.0025	
3/7/2016	<0.0025	
5/5/2016	<0.0025	
7/14/2016	<0.0025	
9/12/2016	<0.0025	
10/27/2016	<0.0025	
1/13/2017	8E-05 (J)	
3/20/2017	<0.0025	
5/23/2017	<0.0025	
9/19/2017	<0.0025	
3/13/2018	<0.0025	
9/7/2018	<0.0025	
3/11/2019		<0.0025
9/5/2019		<0.0025
3/3/2020		<0.0025

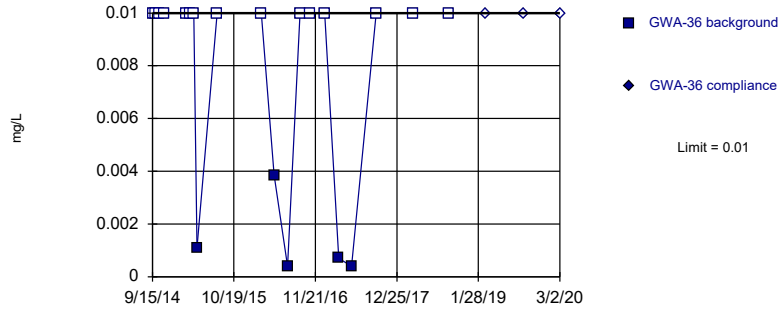
Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.0025	
10/4/2014	<0.0025	
10/23/2014	<0.0025	
11/10/2014	<0.0025	
3/4/2015	<0.0025	
3/20/2015	<0.0025	
4/9/2015	<0.0025	
4/23/2015	<0.0025	
7/30/2015	<0.0025	
3/8/2016	<0.0025	
5/4/2016	<0.0025	
7/18/2016	<0.0025	
9/13/2016	<0.0025	
10/27/2016	<0.0025	
1/13/2017	0.0001 (J)	
3/16/2017	<0.0025	
5/19/2017	<0.0025	
9/19/2017	<0.0025	
3/13/2018	<0.0025	
9/11/2018	<0.0025	
3/8/2019		<0.0025
9/5/2019		<0.0025
3/3/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

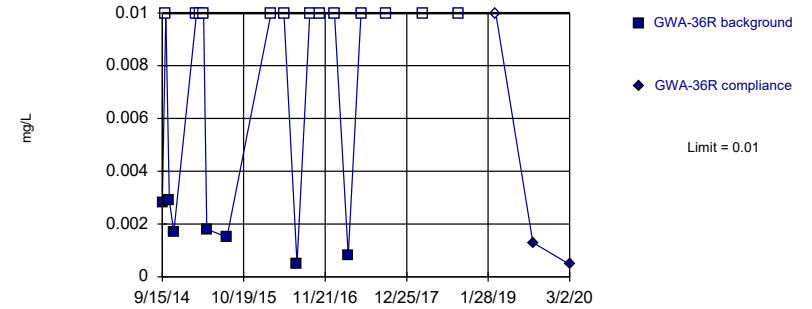


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

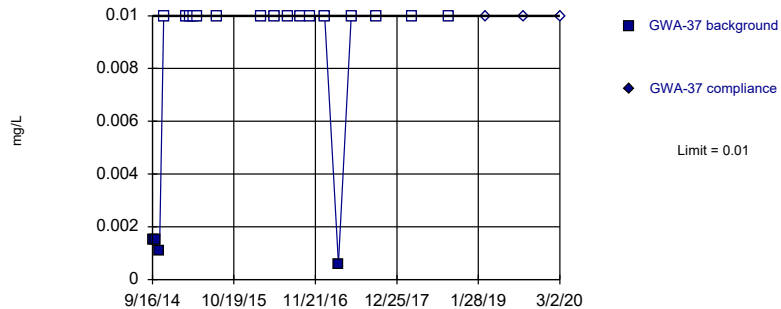


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

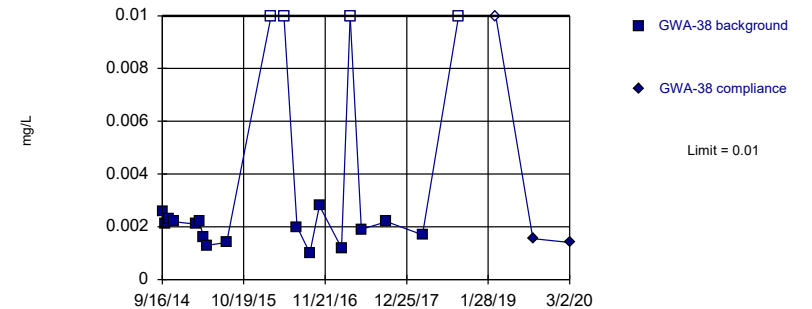


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 20 background values. 20% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.01	
10/3/2014	<0.01	
10/20/2014	<0.01	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	<0.01	
4/21/2015	0.0011 (J)	
7/28/2015	<0.01	
3/1/2016	<0.01	
5/2/2016	0.00385 (J)	
7/7/2016	0.0004 (J)	
9/7/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
3/15/2017	0.0007 (J)	
5/17/2017	0.0004 (J)	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/6/2019		<0.01
9/4/2019		<0.01
3/2/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0028	
10/3/2014	<0.01	
10/20/2014	0.0029	
11/10/2014	0.0017	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	<0.01	
4/21/2015	0.0018	
7/28/2015	0.0015	
3/1/2016	<0.01	
5/2/2016	<0.01	
7/6/2016	0.0005 (J)	
9/7/2016	<0.01	
10/25/2016	<0.01	
1/5/2017	<0.01	
3/14/2017	0.0008 (J)	
5/16/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.0013 (J)
3/2/2020		0.00047 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.0015	
10/3/2014	0.0015	
10/20/2014	0.0011 (J)	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	<0.01	
4/22/2015	<0.01	
7/28/2015	<0.01	
3/1/2016	<0.01	
5/3/2016	<0.01	
7/8/2016	<0.01	
9/7/2016	<0.01	
10/25/2016	<0.01	
1/6/2017	<0.01	
3/14/2017	0.0006 (J)	
5/16/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/6/2019		<0.01
9/4/2019		<0.01
3/2/2020		<0.01

Prediction Limit

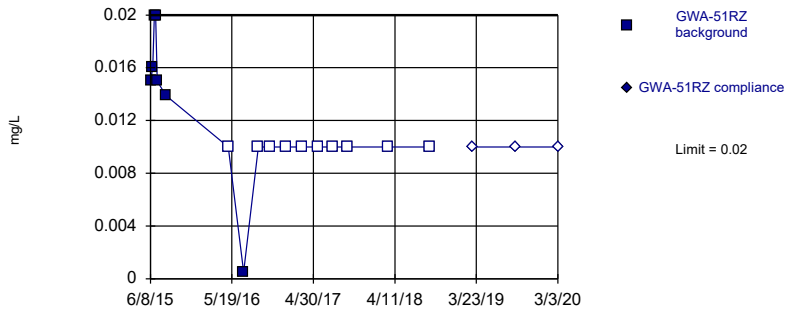
Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.0026	
10/3/2014	0.0021	
10/20/2014	0.0023	
11/10/2014	0.0022	
3/2/2015	0.0021	
3/17/2015	0.0022	
4/6/2015	0.0016	
4/22/2015	0.0013	
7/28/2015	0.0014	
3/2/2016	<0.01	
5/3/2016	<0.01	
7/7/2016	0.002 (J)	
9/8/2016	0.001 (J)	
10/25/2016	0.0028 (J)	
2/9/2017	0.0012 (J)	
3/23/2017	<0.01	
5/17/2017	0.0019 (J)	
9/19/2017	0.0022 (J)	
3/13/2018	0.0017 (J)	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.00155 (JD)
3/2/2020		0.0014 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

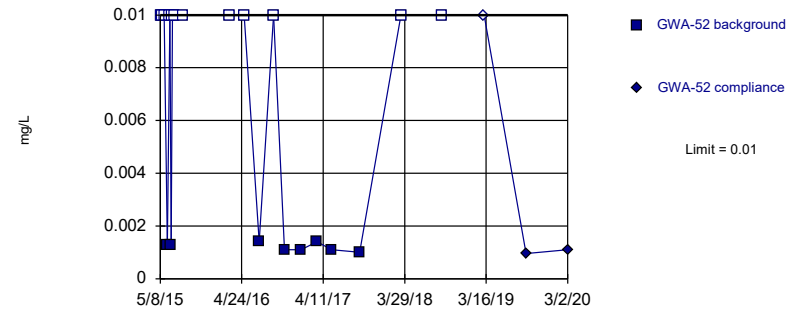


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

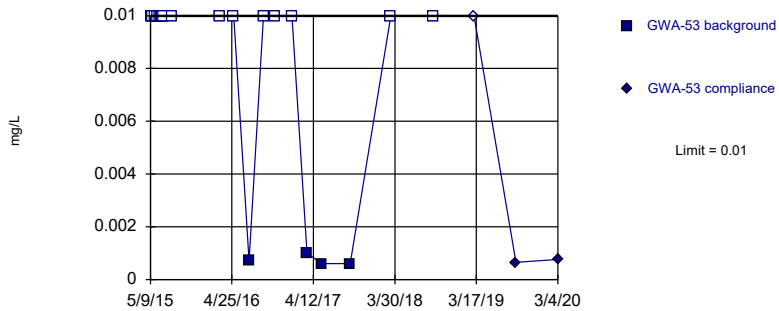


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 60% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

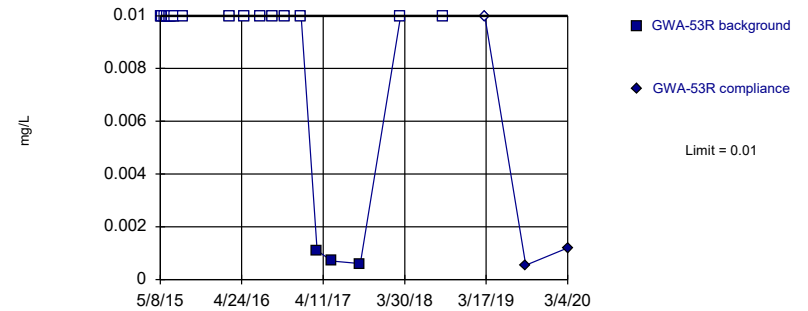


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	0.036 (o)	
5/17/2015	0.029 (o)	
5/25/2015	0.029 (o)	
6/8/2015	0.015	
6/18/2015	0.016	
6/24/2015	0.02	
6/30/2015	0.02	
7/6/2015	0.015	
8/12/2015	0.0139	
5/4/2016	<0.01 (D)	
7/7/2016	0.0005 (JD)	
9/8/2016	<0.01 (D)	
10/26/2016	<0.01 (D)	
1/6/2017	<0.01 (D)	
3/15/2017	<0.01 (D)	
5/18/2017	<0.01 (D)	
7/19/2017	<0.01 (D)	
9/19/2017	<0.01 (D)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/4/2019		<0.01
3/3/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	0.0013	
6/18/2015	<0.01	
6/24/2015	0.0013	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
2/29/2016	<0.01	
5/4/2016	<0.01	
7/8/2016	0.0014 (J)	
9/8/2016	<0.01	
10/26/2016	0.0011 (J)	
1/6/2017	0.0011 (J)	
3/15/2017	0.0014 (J)	
5/17/2017	0.0011 (J)	
9/15/2017	0.001 (J)	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.00096 (J)
3/2/2020		0.0011 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.01	
5/18/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/17/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
3/2/2016	<0.01	
5/3/2016	<0.01	
7/8/2016	0.0007 (J)	
9/8/2016	<0.01	
10/26/2016	<0.01	
1/9/2017	<0.01	
3/16/2017	0.001 (J)	
5/19/2017	0.0006 (J)	
9/19/2017	0.0006 (J)	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.00065 (J)
3/4/2020		0.00076 (J)

Prediction Limit

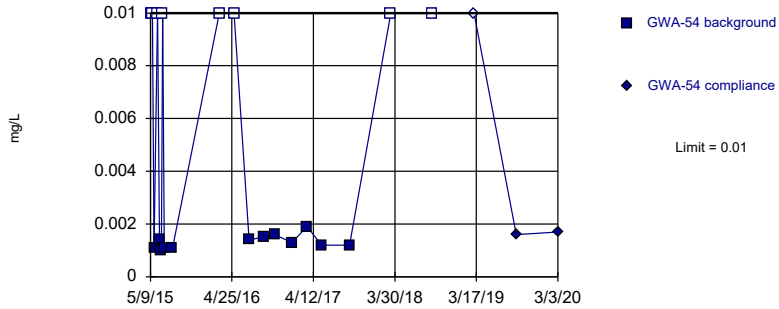
Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
3/2/2016	<0.01	
5/3/2016	<0.01	
7/11/2016	<0.01	
9/7/2016	<0.01	
10/27/2016	<0.01	
1/6/2017	<0.01	
3/16/2017	0.0011 (J)	
5/19/2017	0.0007 (J)	
9/19/2017	0.0006 (J)	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/5/2019		0.00055 (J)
3/4/2020		0.0012 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

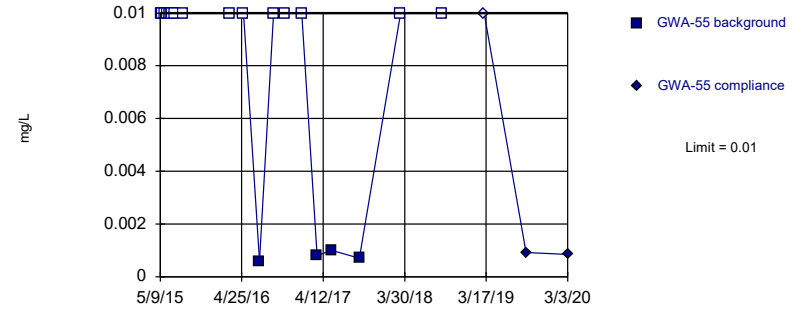


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

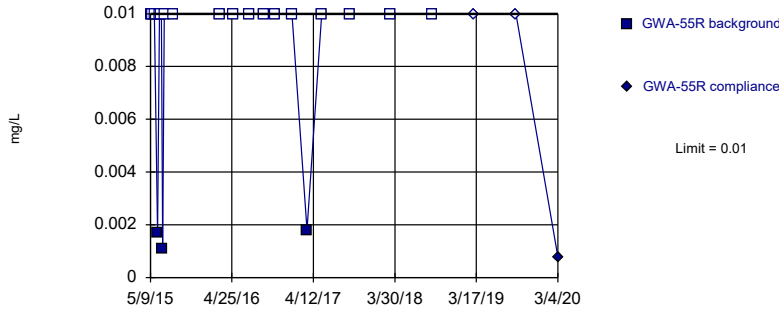


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

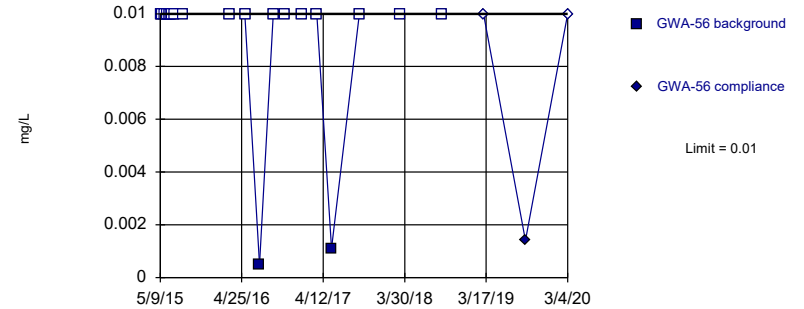


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.01	
5/18/2015	<0.01	
5/25/2015	0.0011 (J)	
6/9/2015	<0.01	
6/17/2015	0.0014	
6/25/2015	0.001 (J)	
7/1/2015	<0.01	
7/7/2015	0.0011 (J)	
8/12/2015	0.0011 (J)	
3/2/2016	<0.01	
5/4/2016	<0.01	
7/8/2016	0.0014 (J)	
9/8/2016	0.0015 (J)	
10/26/2016	0.0016 (J)	
1/9/2017	0.0013 (J)	
3/15/2017	0.0019 (J)	
5/18/2017	0.0012 (J)	
9/15/2017	0.0012 (J)	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/5/2019		0.0016 (J)
3/3/2020		0.0017 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.01	
5/18/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/2/2016	<0.01	
5/3/2016	<0.01	
7/11/2016	0.0006 (J)	
9/9/2016	<0.01	
10/26/2016	<0.01	
1/9/2017	<0.01	
3/16/2017	0.0008 (J)	
5/18/2017	0.001 (J)	
9/15/2017	0.0007 (J)	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.00092 (J)
3/3/2020		0.00085 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.01	
5/18/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	0.0017	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	0.0011 (J)	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
5/3/2016	<0.01	
7/11/2016	<0.01	
9/9/2016	<0.01	
10/27/2016	<0.01	
1/9/2017	<0.01	
3/16/2017	0.0018 (J)	
5/18/2017	<0.01	
9/18/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/5/2019		<0.01
3/4/2020		0.00079 (J)

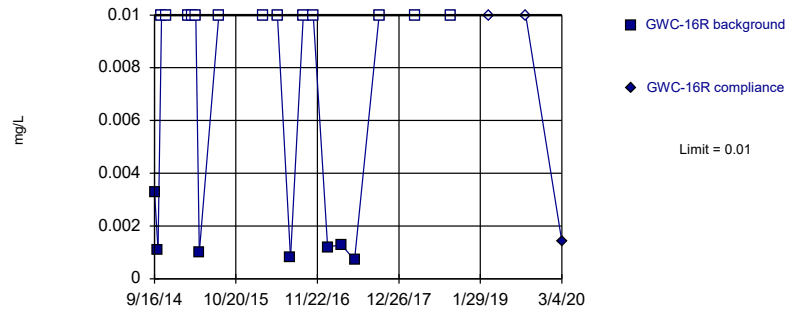
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.01	
5/19/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
5/9/2016	<0.01	
7/11/2016	0.0005 (J)	
9/9/2016	<0.01	
10/26/2016	<0.01	
1/9/2017	<0.01	
3/15/2017	<0.01	
5/18/2017	0.0011 (J)	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.0014 (J)
3/4/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

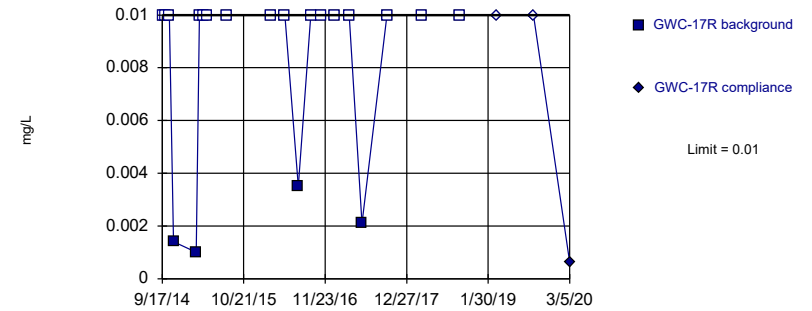


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

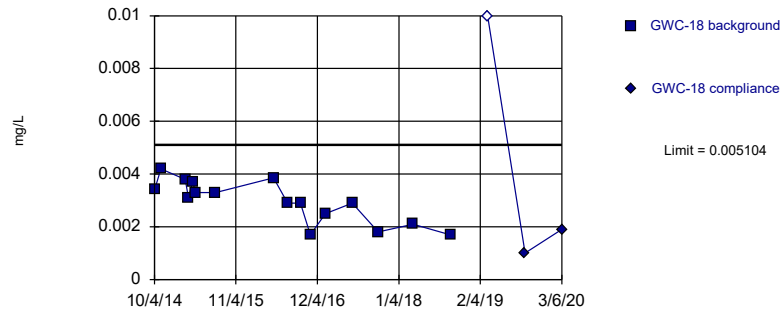


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:13 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

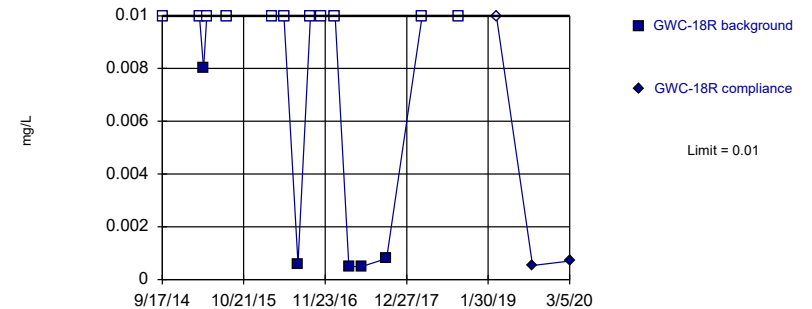


Background Data Summary: Mean=0.002947, Std. Dev.=0.0007961, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9365, critical = 0.844. Kappa = 2.709 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.0033	
10/4/2014	0.0011 (J)	
10/21/2014	<0.01	
11/11/2014	<0.01	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/6/2015	<0.01	
4/23/2015	0.001 (J)	
7/29/2015	<0.01	
3/3/2016	<0.01 (D)	
5/10/2016	<0.01	
7/13/2016	0.0008 (J)	
9/15/2016	<0.01	
11/2/2016	<0.01	
1/11/2017	0.0012 (J)	
3/20/2017	0.0013 (J)	
5/23/2017	0.0007 (J)	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/9/2019		<0.01
3/4/2020		0.0014 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/11/2014	0.0014	
3/3/2015	0.001 (J)	
3/18/2015	<0.01	
4/6/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/4/2016	<0.01	
5/10/2016	<0.01	
7/14/2016	0.0035 (J)	
9/14/2016	<0.01	
11/1/2016	<0.01	
1/11/2017	<0.01	
3/21/2017	<0.01	
5/23/2017	0.0021 (J)	
9/22/2017	<0.01	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/10/2019		<0.01
3/5/2020		0.00063 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.0013 (o)	
10/4/2014	0.0034	
10/21/2014	<0.0013 (o)	
11/5/2014	0.0042	
3/3/2015	0.0038	
3/18/2015	0.0031	
4/7/2015	0.0037	
4/23/2015	0.0033	
7/29/2015	0.0033	
3/7/2016	<0.01 (o)	
5/5/2016	0.00385 (J)	
7/13/2016	0.0029 (J)	
9/13/2016	0.0029 (J)	
10/31/2016	0.0017 (J)	
1/12/2017	0.0025 (J)	
3/23/2017	<0.01 (o)	
5/23/2017	0.0029 (J)	
9/25/2017	0.0018 (J)	
3/14/2018	0.0021 (J)	
9/11/2018	0.0017 (J)	
3/12/2019		<0.01
9/9/2019		0.001 (J)
3/6/2020		0.0019 (J)

Prediction Limit

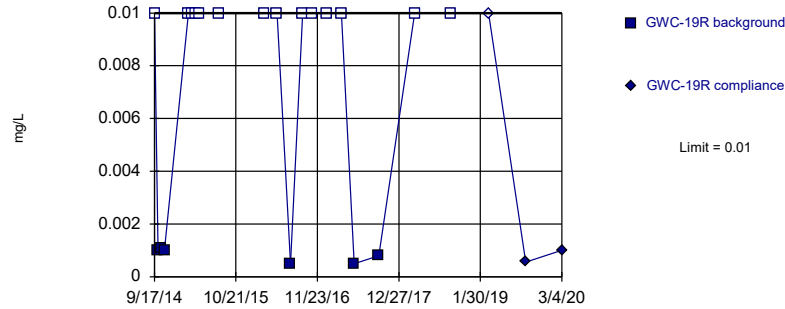
Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.01	
10/4/2014	0.025 (o)	
10/21/2014	0.024 (o)	
11/11/2014	0.025 (o)	
3/3/2015	0.029 (o)	
3/18/2015	<0.01	
4/7/2015	0.008	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
5/5/2016	<0.01	
7/13/2016	0.0006 (J)	
9/12/2016	<0.01	
11/1/2016	<0.01	
1/11/2017	<0.01	
3/20/2017	0.0005	
5/22/2017	0.0005	
9/21/2017	0.0008	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.00053 (J)
3/5/2020		0.0007 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

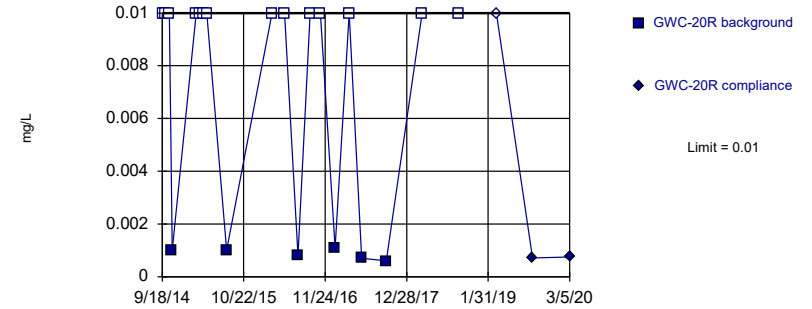


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

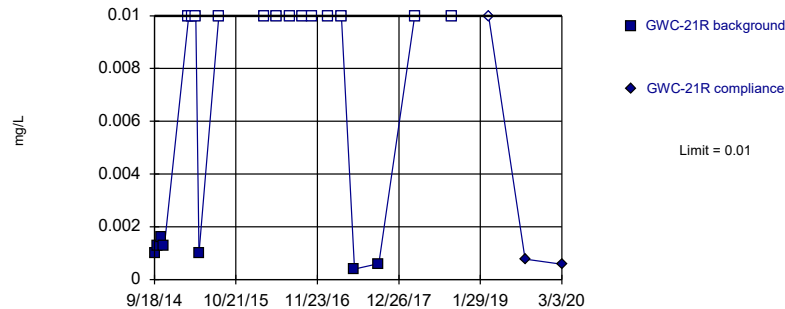


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

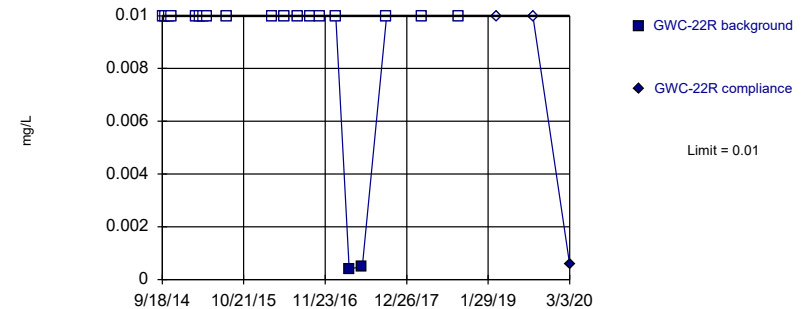


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.01	
10/4/2014	0.001 (J)	
10/21/2014	0.0011 (J)	
11/5/2014	0.001 (J)	
3/3/2015	<0.01	
3/19/2015	<0.01	
4/7/2015	<0.01	
4/24/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
5/9/2016	<0.01	
7/14/2016	0.0005 (J)	
9/12/2016	<0.01	
10/31/2016	<0.01	
1/11/2017	<0.01	
3/21/2017	<0.01	
5/22/2017	0.0005 (J)	
9/20/2017	0.0008 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/9/2019		0.00056 (J)
3/4/2020		0.001 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	0.001 (J)	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/7/2015	<0.01	
4/24/2015	<0.01	
7/30/2015	0.001 (J)	
3/8/2016	<0.01	
5/9/2016	<0.01	
7/14/2016	0.0008 (J)	
9/12/2016	<0.01	
10/31/2016	<0.01	
1/12/2017	0.0011 (J)	
3/22/2017	<0.01	
5/22/2017	0.0007 (J)	
9/19/2017	0.0006 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.00071 (JD)
3/5/2020		0.00075 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	0.001 (J)	
10/5/2014	0.0013	
10/22/2014	0.0016	
11/5/2014	0.0013	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/8/2015	<0.01	
4/24/2015	0.001 (J)	
7/30/2015	<0.01	
3/8/2016	<0.01	
5/9/2016	<0.01	
7/15/2016	<0.01	
9/9/2016	<0.01	
10/27/2016	<0.01	
1/12/2017	<0.01	
3/21/2017	<0.01	
5/23/2017	0.0004 (J)	
9/19/2017	0.0006 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/11/2019		<0.01
9/6/2019		0.00078 (J)
3/3/2020		0.00058 (J)

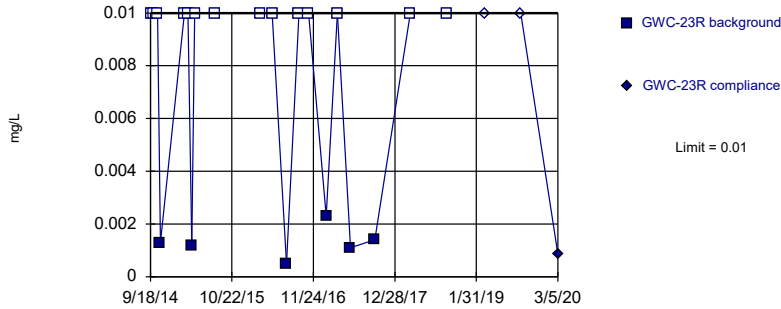
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	<0.01	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/8/2015	<0.01	
4/24/2015	<0.01	
7/30/2015	<0.01	
3/7/2016	<0.01	
5/5/2016	<0.01	
7/14/2016	<0.01	
9/12/2016	<0.01	
10/27/2016	<0.01	
1/13/2017	<0.01	
3/20/2017	0.0004 (J)	
5/23/2017	0.0005 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/5/2019		<0.01
3/3/2020		0.00057 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

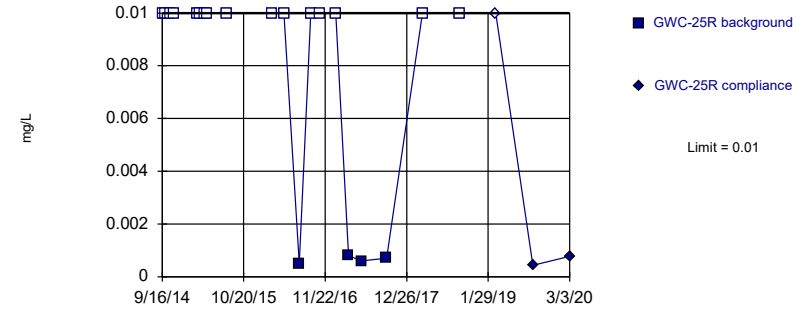


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

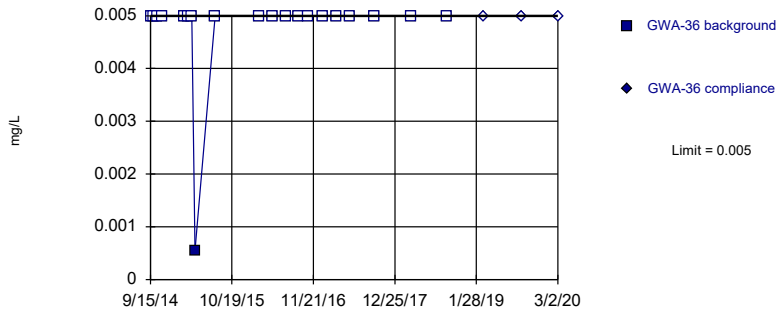


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

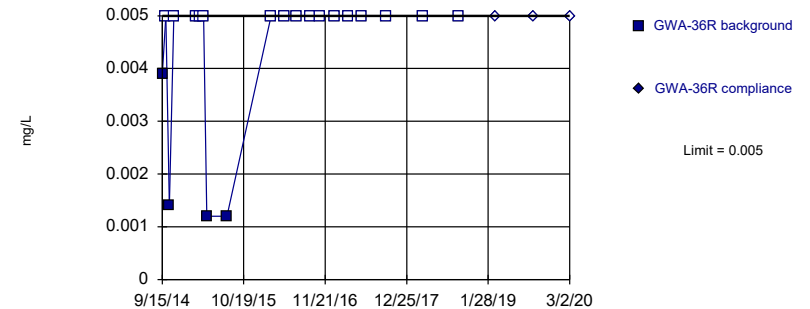


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	0.0013	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	0.0012 (J)	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/9/2016	<0.01	
5/6/2016	<0.01	
7/15/2016	0.0005 (J)	
9/14/2016	<0.01	
11/1/2016	<0.01	
1/25/2017	0.0023 (J)	
3/22/2017	<0.01	
5/24/2017	0.0011 (J)	
9/21/2017	0.0014 (J)	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/6/2019		<0.01
3/5/2020		0.00086 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.01	
10/4/2014	<0.01	
10/23/2014	<0.01	
11/10/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/9/2015	<0.01	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/8/2016	<0.01	
5/4/2016	<0.01	
7/18/2016	0.0005 (J)	
9/13/2016	<0.01	
10/27/2016	<0.01	
1/13/2017	<0.01	
3/16/2017	0.0008 (J)	
5/19/2017	0.0006 (J)	
9/19/2017	0.0007 (J)	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.00044 (J)
3/3/2020		0.00078 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	0.00055 (J)	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/2/2016	<0.005	
7/7/2016	<0.005	
9/7/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
3/15/2017	<0.005	
5/17/2017	<0.005	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

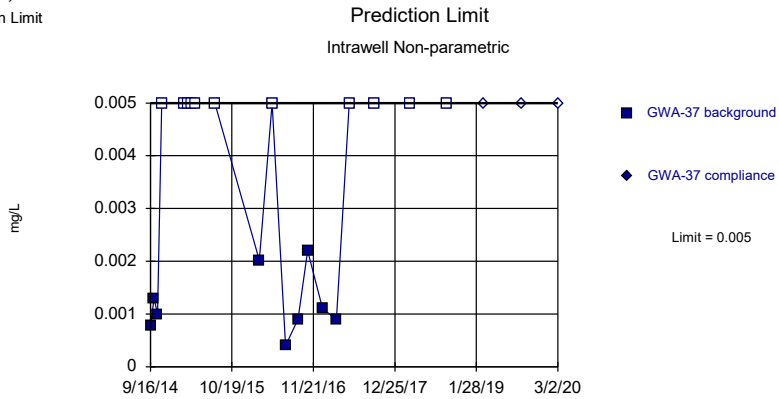
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0039	
10/3/2014	<0.005	
10/20/2014	0.0014	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	0.0012 (J)	
7/28/2015	0.0012 (J)	
3/1/2016	<0.005	
5/2/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
3/14/2017	<0.005	
5/16/2017	<0.005	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

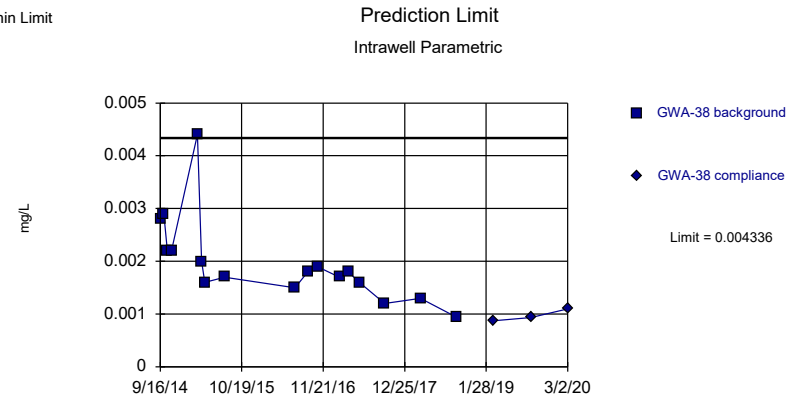
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

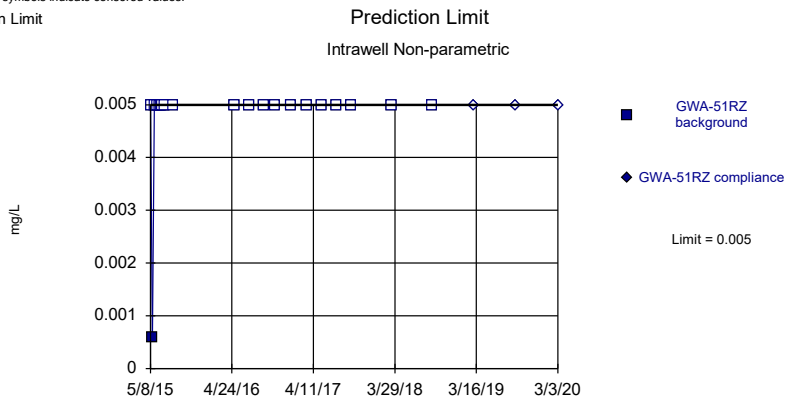
Within Limit



Background Data Summary (based on square root transformation): Mean=0.04368, Std. Dev.=0.008291, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.851. Kappa = 2.673 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

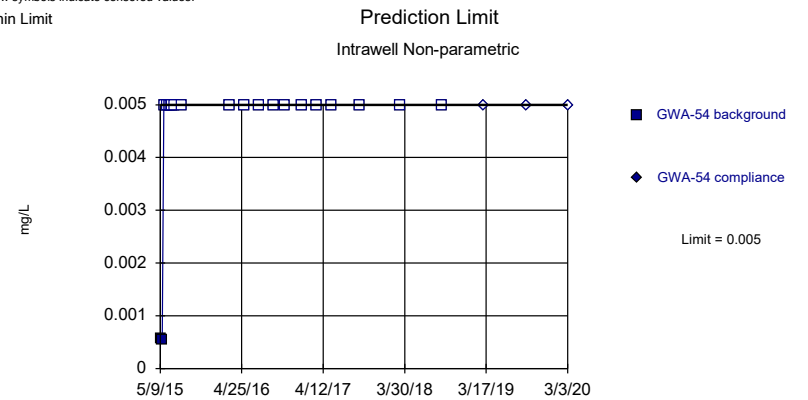
Within Limit



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: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit



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: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.00077 (J)	
10/3/2014	0.0013	
10/20/2014	0.001 (J)	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	0.00202 (J)	
5/3/2016	<0.005	
7/8/2016	0.0004 (J)	
9/7/2016	0.0009 (J)	
10/25/2016	0.0022 (J)	
1/6/2017	0.0011 (J)	
3/14/2017	0.0009 (J)	
5/16/2017	<0.005	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.0028	
10/3/2014	0.0029	
10/20/2014	0.0022	
11/10/2014	0.0022	
3/17/2015	0.0044	
4/6/2015	0.002	
4/22/2015	0.0016	
7/28/2015	0.0017	
3/2/2016	<0.01 (o)	
5/3/2016	<0.01 (o)	
7/7/2016	0.0015 (J)	
9/8/2016	0.0018 (J)	
10/25/2016	0.0019 (J)	
2/9/2017	0.0017 (J)	
3/23/2017	0.0018 (J)	
5/17/2017	0.0016 (J)	
9/19/2017	0.0012 (J)	
3/13/2018	0.0013 (J)	
9/6/2018	0.00094 (J)	
3/7/2019		0.00087 (J)
9/4/2019		0.000935 (JD)
3/2/2020		0.0011 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.005	
5/17/2015	0.00059 (J)	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
5/4/2016	<0.005 (D)	
7/7/2016	<0.005 (D)	
9/8/2016	<0.005 (D)	
10/26/2016	<0.005 (D)	
1/6/2017	<0.005 (D)	
3/15/2017	<0.005 (D)	
5/18/2017	<0.005 (D)	
7/19/2017	<0.005 (D)	
9/19/2017	<0.005 (D)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/8/2019		<0.005
9/4/2019		<0.005
3/3/2020		<0.005

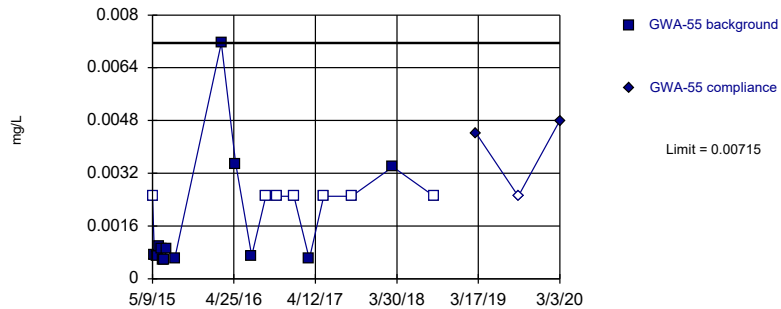
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	0.00057 (J)	
5/18/2015	0.00055 (J)	
5/25/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/4/2016	<0.005	
7/8/2016	<0.005	
9/8/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/15/2017	<0.005	
5/18/2017	<0.005	
9/15/2017	<0.005	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/5/2019		<0.005
3/3/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

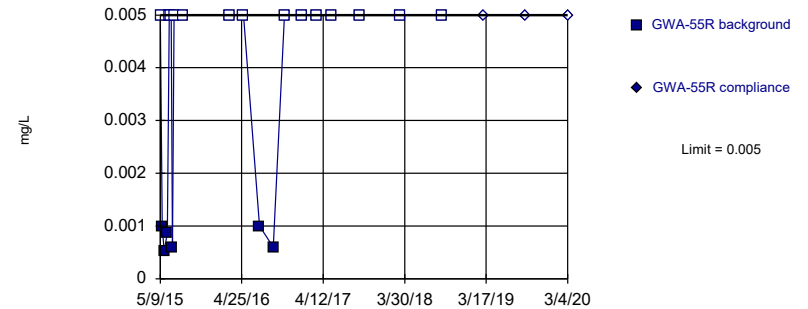


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 35% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

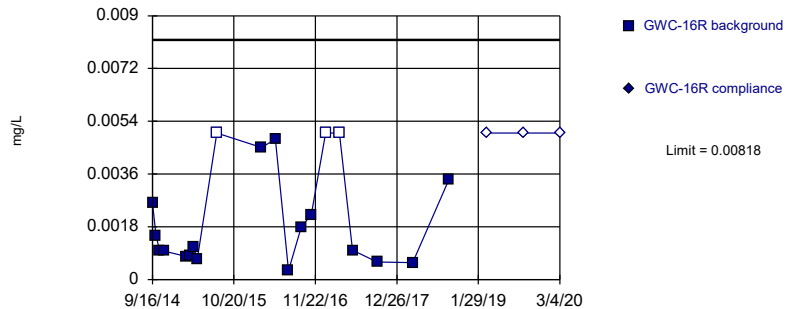


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

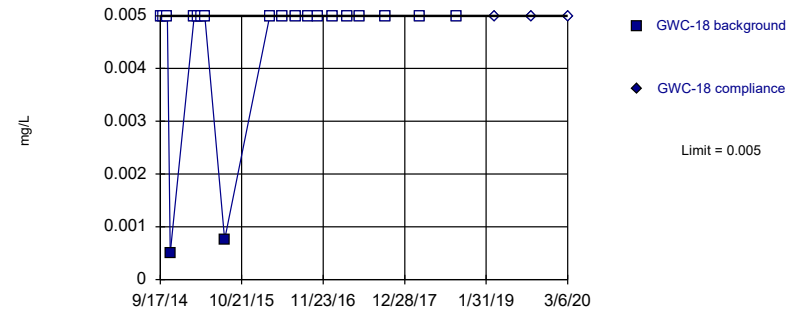


Background Data Summary (based on square root transformation): Mean=0.0431, Std. Dev.=0.01846, n=20, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8744, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.0025	
5/18/2015	0.00071 (J)	
5/26/2015	0.00067 (J)	
6/9/2015	0.001 (J)	
6/17/2015	0.00093 (J)	
6/25/2015	0.00059 (J)	
7/1/2015	0.00059 (J)	
7/7/2015	0.00091 (J)	
8/13/2015	0.0006 (J)	
3/2/2016	0.00715 (J)	
5/3/2016	0.00349 (J)	
7/11/2016	0.0007 (J)	
9/9/2016	<0.0025	
10/26/2016	<0.0025	
1/9/2017	<0.0025	
3/16/2017	0.0006 (J)	
5/18/2017	<0.0025	
9/15/2017	<0.0025	
3/12/2018	0.0034 (J)	
9/7/2018	<0.0025	
3/8/2019		0.0044 (J)
9/5/2019		<0.0025
3/3/2020		0.0048 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.005	
5/18/2015	0.001 (J)	
5/26/2015	0.00052 (J)	
6/9/2015	0.00087 (J)	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	0.0006 (J)	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	0.001 (J)	
9/9/2016	0.0006 (J)	
10/27/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	<0.005	
5/18/2017	<0.005	
9/18/2017	<0.005	
3/12/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/5/2019		<0.005
3/4/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.0026	
10/4/2014	0.0015	
10/21/2014	0.00099 (J)	
11/11/2014	0.00097 (J)	
3/3/2015	0.00078 (J)	
3/18/2015	0.00081 (J)	
4/6/2015	0.0011 (J)	
4/23/2015	0.0007 (J)	
7/29/2015	<0.005	
3/3/2016	0.00451 (JD)	
5/10/2016	0.00478 (J)	
7/13/2016	0.0003 (J)	
9/15/2016	0.0018 (J)	
11/2/2016	0.0022 (J)	
1/11/2017	<0.005	
3/20/2017	<0.005	
5/23/2017	0.001 (J)	
9/21/2017	0.0006 (J)	
3/14/2018	0.00058 (J)	
9/7/2018	0.0034 (J)	
3/11/2019		<0.005
9/9/2019		<0.005
3/4/2020		<0.005

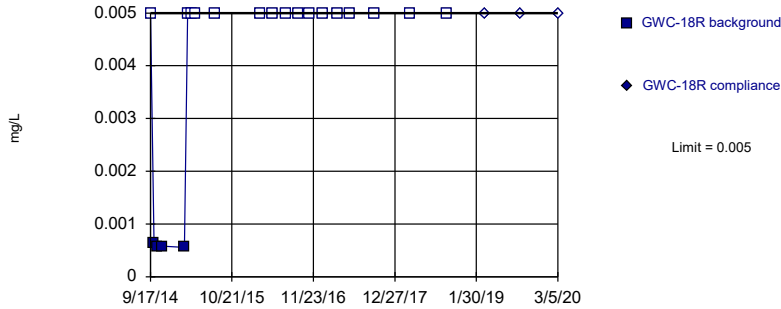
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	0.0005 (J)	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	0.00076 (J)	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	<0.005	
9/13/2016	<0.005	
10/31/2016	<0.005	
1/12/2017	<0.005	
3/23/2017	<0.005	
5/23/2017	<0.005	
9/25/2017	<0.005	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/9/2019		<0.005
3/6/2020		<0.005

Within Limit

Prediction Limit
 Intrawell Non-parametric

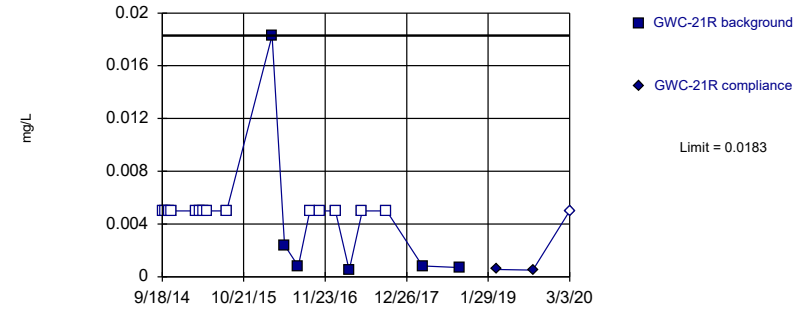


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

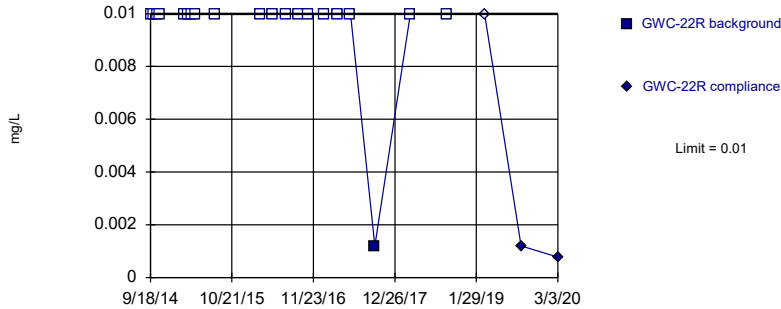


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

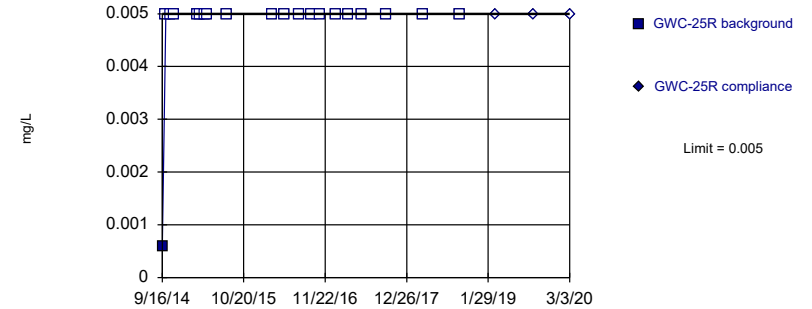


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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: Cobalt Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.005	
10/4/2014	0.00063 (J)	
10/21/2014	0.00058 (J)	
11/11/2014	0.00058 (J)	
3/3/2015	0.00056 (J)	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	<0.005	
9/12/2016	<0.005	
11/1/2016	<0.005	
1/11/2017	<0.005	
3/20/2017	<0.005	
5/22/2017	<0.005	
9/21/2017	<0.005	
3/14/2018	<0.005	
9/7/2018	<0.005	
3/12/2019		<0.005
9/6/2019		<0.005
3/5/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	0.0183 (J)	
5/9/2016	0.00239 (J)	
7/15/2016	0.0008 (J)	
9/9/2016	<0.005	
10/27/2016	<0.005	
1/12/2017	<0.005	
3/21/2017	0.0005 (J)	
5/23/2017	<0.005	
9/19/2017	<0.005	
3/14/2018	0.00083 (J)	
9/10/2018	0.00071 (J)	
3/11/2019		0.00056 (J)
9/6/2019		0.00051 (J)
3/3/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	<0.01	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/8/2015	<0.01	
4/24/2015	<0.01	
7/30/2015	<0.01	
3/7/2016	<0.01	
5/5/2016	<0.01	
7/14/2016	<0.01	
9/12/2016	<0.01	
10/27/2016	<0.01	
1/13/2017	<0.01	
3/20/2017	<0.01	
5/23/2017	<0.01	
9/19/2017	0.0012 (J)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/5/2019		0.0012 (J)
3/3/2020		0.00078 (J)

Prediction Limit

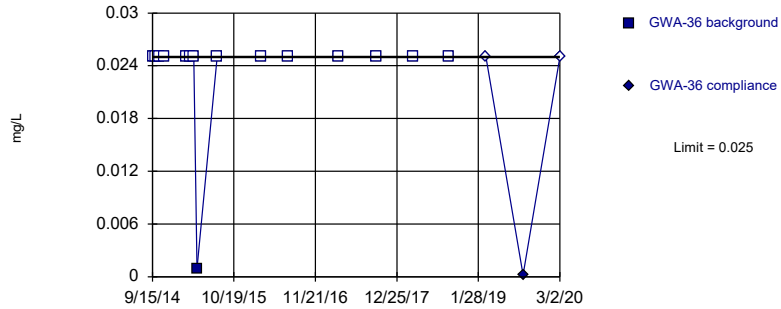
Constituent: Cobalt (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	0.0006 (J)	
10/4/2014	<0.005	
10/23/2014	<0.005	
11/10/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/9/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	<0.005	
5/4/2016	<0.005	
7/18/2016	<0.005	
9/13/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/16/2017	<0.005	
5/19/2017	<0.005	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		<0.005
3/3/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

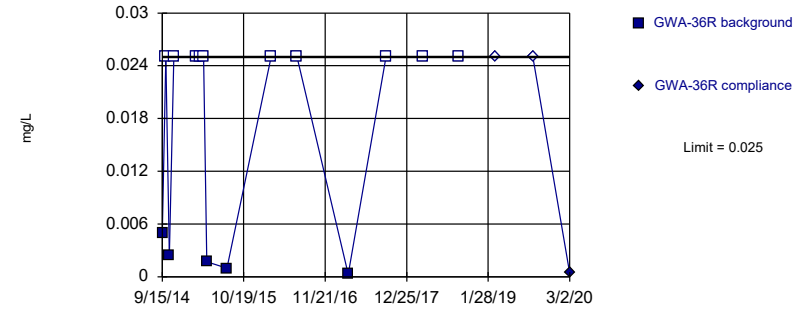


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

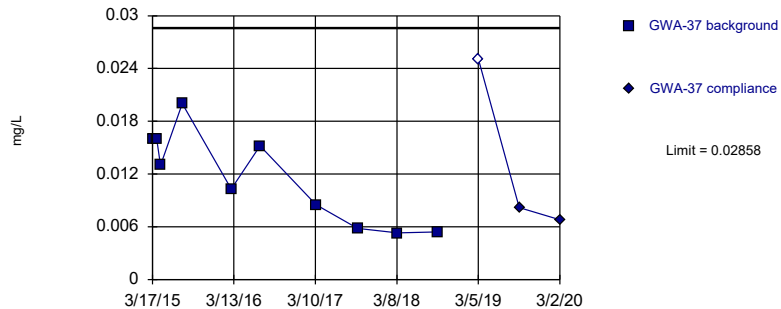


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

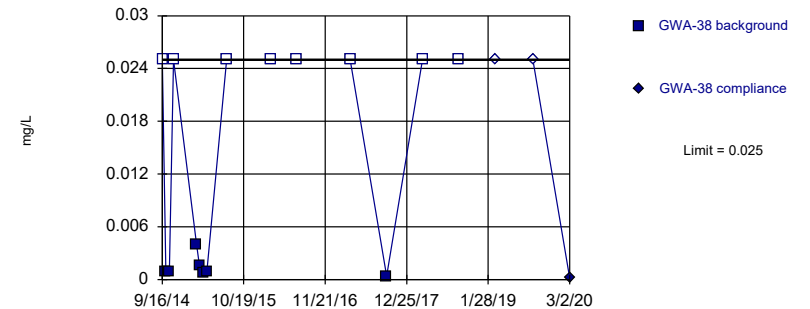


Background Data Summary: Mean=0.01155, Std. Dev.=0.005241, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9145, critical = 0.781. Kappa = 3.25 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.025	
10/3/2014	<0.025	
10/20/2014	<0.025	
11/10/2014	<0.025	
3/2/2015	<0.025	
3/17/2015	<0.025	
4/5/2015	<0.025	
4/21/2015	0.00095 (J)	
7/28/2015	<0.025	
3/1/2016	<0.025	
7/7/2016	<0.025	
3/15/2017	<0.025	
9/15/2017	<0.025	
3/12/2018	<0.025	
9/6/2018	<0.025	
3/6/2019		<0.025
9/4/2019		0.00023 (J)
3/2/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0049 (J)	
10/3/2014	<0.025	
10/20/2014	0.0024 (J)	
11/10/2014	<0.025	
3/2/2015	<0.025	
3/17/2015	<0.025	
4/5/2015	<0.025	
4/21/2015	0.0017 (J)	
7/28/2015	0.00097 (J)	
3/1/2016	<0.025	
7/6/2016	<0.025	
3/14/2017	0.0003 (J)	
9/15/2017	<0.025	
3/12/2018	<0.025	
9/6/2018	<0.025	
3/7/2019		<0.025
9/4/2019		<0.025
3/2/2020		0.00043 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.018	
10/3/2014	0.021	
10/20/2014	0.022	
11/10/2014	0.02	
3/2/2015	0.015	
3/17/2015	0.016	
4/5/2015	0.016	
4/22/2015	0.013	
7/28/2015	0.02	
3/1/2016	0.0103 (J)	
7/8/2016	0.0152 (J)	
3/14/2017	0.0085 (J)	
9/15/2017	0.0058 (J)	
3/12/2018	0.0053 (J)	
9/6/2018	0.0054 (J)	
3/6/2019		<0.025
9/4/2019		0.0082 (J)
3/2/2020		0.0068 (J)

Prediction Limit

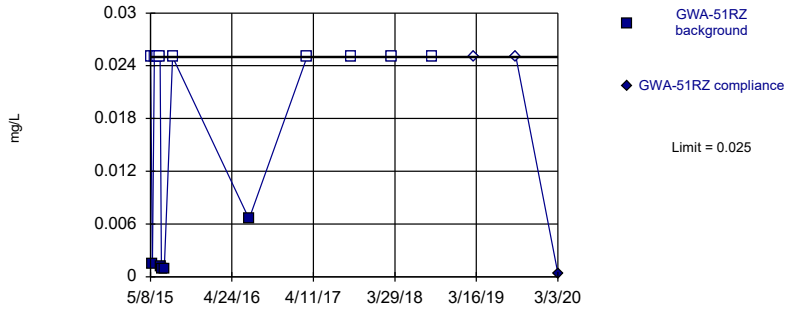
Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	<0.025	
10/3/2014	0.00089 (J)	
10/20/2014	0.00087 (J)	
11/10/2014	<0.025	
3/2/2015	0.004 (J)	
3/17/2015	0.0016 (J)	
4/6/2015	0.00083 (J)	
4/22/2015	0.00085 (J)	
7/28/2015	<0.025	
3/2/2016	<0.025	
7/7/2016	<0.025	
3/23/2017	<0.025	
9/19/2017	0.0004 (J)	
3/13/2018	<0.025	
9/6/2018	<0.025	
3/7/2019		<0.025
9/4/2019		<0.025 (D)
3/2/2020		0.00019 (J)

Within Limit

Prediction Limit
 Intrawell Non-parametric

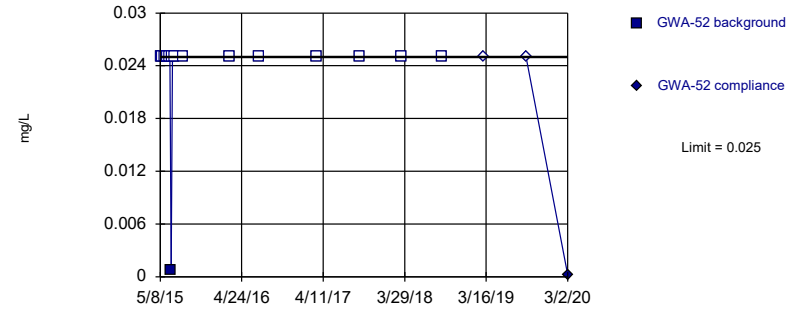


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

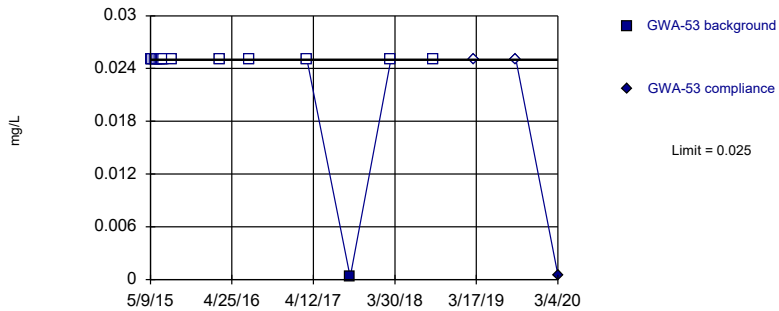


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

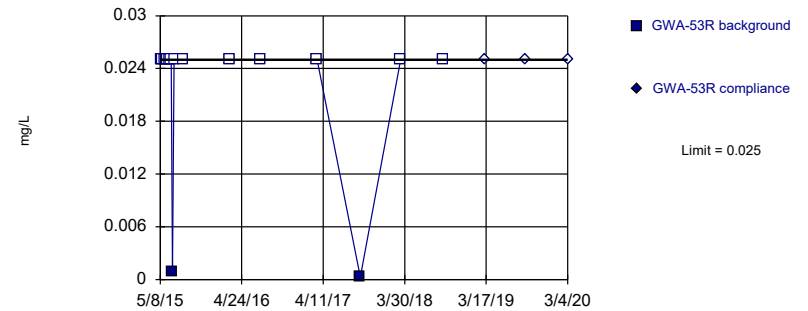


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.025	
5/17/2015	0.0015 (J)	
5/25/2015	<0.025	
6/8/2015	<0.025	
6/18/2015	<0.025	
6/24/2015	0.0012 (J)	
6/30/2015	0.00096 (J)	
7/6/2015	0.00091 (J)	
8/12/2015	<0.025	
7/7/2016	0.0066 (JD)	
3/15/2017	<0.025 (D)	
9/19/2017	<0.025 (D)	
3/13/2018	<0.025	
9/7/2018	<0.025	
3/8/2019		<0.025
9/4/2019		<0.025
3/3/2020		0.00041 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.025	
5/17/2015	<0.025	
5/25/2015	<0.025	
6/8/2015	<0.025	
6/18/2015	<0.025	
6/24/2015	0.00082 (J)	
6/30/2015	<0.025	
7/6/2015	<0.025	
8/12/2015	<0.025	
2/29/2016	<0.025	
7/8/2016	<0.025	
3/15/2017	<0.025	
9/15/2017	<0.025	
3/13/2018	<0.025	
9/6/2018	<0.025	
3/7/2019		<0.025
9/4/2019		<0.025
3/2/2020		0.00024 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.025	
5/18/2015	<0.025	
5/25/2015	<0.025	
6/8/2015	<0.025	
6/17/2015	<0.025	
6/24/2015	<0.025	
6/30/2015	<0.025	
7/6/2015	<0.025	
8/12/2015	<0.025	
3/2/2016	<0.025	
7/8/2016	<0.025	
3/16/2017	<0.025	
9/19/2017	0.0003 (J)	
3/13/2018	<0.025	
9/11/2018	<0.025	
3/8/2019		<0.025
9/5/2019		<0.025
3/4/2020		0.00053 (J)

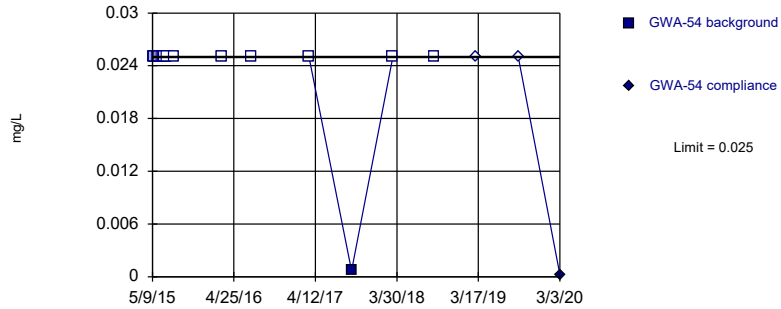
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.025	
5/17/2015	<0.025	
5/25/2015	<0.025	
6/8/2015	<0.025	
6/18/2015	<0.025	
6/24/2015	<0.025	
6/30/2015	0.00093 (J)	
7/6/2015	<0.025	
8/12/2015	<0.025	
3/2/2016	<0.025	
7/11/2016	<0.025	
3/16/2017	<0.025	
9/19/2017	0.0003 (J)	
3/13/2018	<0.025	
9/11/2018	<0.025	
3/12/2019		<0.025
9/5/2019		<0.025
3/4/2020		<0.025

Within Limit

Prediction Limit
Intrawell Non-parametric

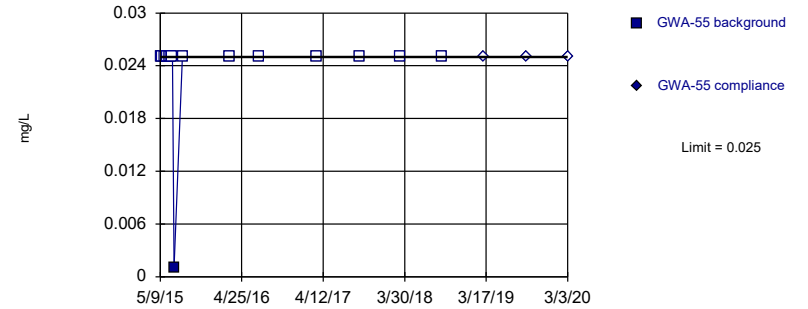


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

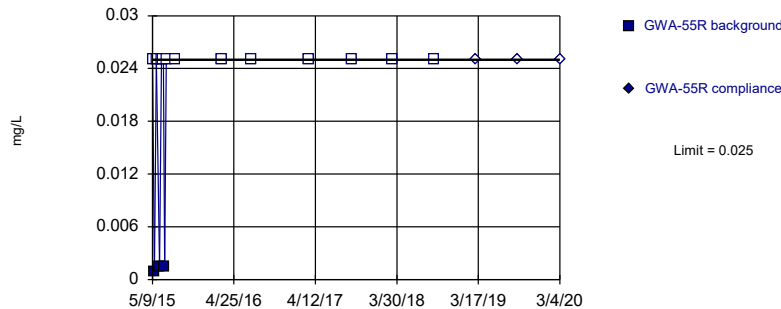


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

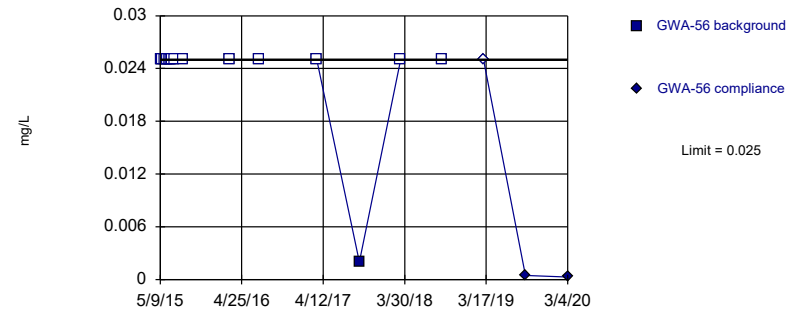


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.025	
5/18/2015	<0.025	
5/25/2015	<0.025	
6/9/2015	<0.025	
6/17/2015	<0.025	
6/25/2015	<0.025	
7/1/2015	<0.025	
7/7/2015	<0.025	
8/12/2015	<0.025	
3/2/2016	<0.025	
7/8/2016	<0.025	
3/15/2017	<0.025	
9/15/2017	0.0007 (J)	
3/13/2018	<0.025	
9/6/2018	<0.025	
3/7/2019		<0.025
9/5/2019		<0.025
3/3/2020		0.00025 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.025	
5/18/2015	<0.025	
5/26/2015	<0.025	
6/9/2015	<0.025	
6/17/2015	<0.025	
6/25/2015	<0.025	
7/1/2015	<0.025	
7/7/2015	0.0011 (J)	
8/13/2015	<0.025	
3/2/2016	<0.025	
7/11/2016	<0.025	
3/16/2017	<0.025	
9/15/2017	<0.025	
3/12/2018	<0.025	
9/7/2018	<0.025	
3/8/2019		<0.025
9/5/2019		<0.025
3/3/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.025	
5/18/2015	0.00093 (J)	
5/26/2015	<0.025	
6/9/2015	0.0014 (J)	
6/17/2015	<0.025	
6/25/2015	<0.025	
7/1/2015	0.0014 (J)	
7/7/2015	<0.025	
8/13/2015	<0.025	
3/3/2016	<0.025	
7/11/2016	<0.025	
3/16/2017	<0.025	
9/18/2017	<0.025	
3/12/2018	<0.025	
9/7/2018	<0.025	
3/7/2019		<0.025
9/5/2019		<0.025
3/4/2020		<0.025

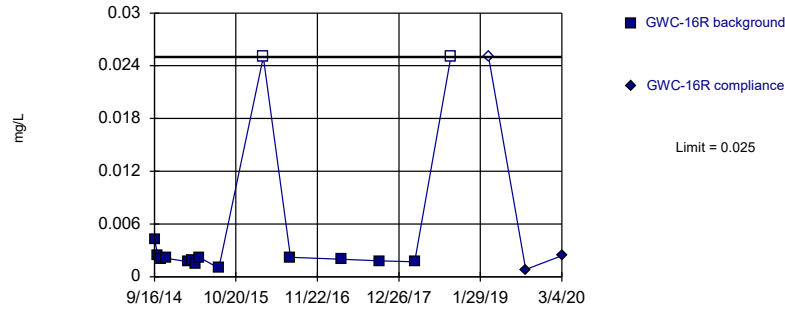
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.025	
5/19/2015	<0.025	
5/26/2015	<0.025	
6/9/2015	<0.025	
6/17/2015	<0.025	
6/25/2015	<0.025	
7/1/2015	<0.025	
7/7/2015	<0.025	
8/13/2015	<0.025	
3/3/2016	<0.025	
7/11/2016	<0.025	
3/15/2017	<0.025	
9/15/2017	0.002 (J)	
3/13/2018	<0.025	
9/7/2018	<0.025	
3/7/2019		<0.025
9/4/2019		0.00047 (J)
3/4/2020		0.0003 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

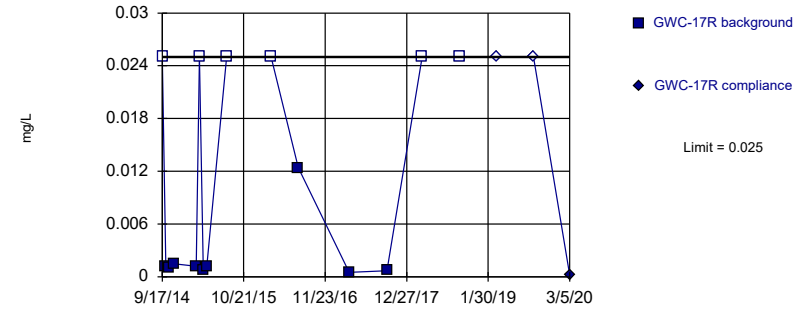


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 13.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

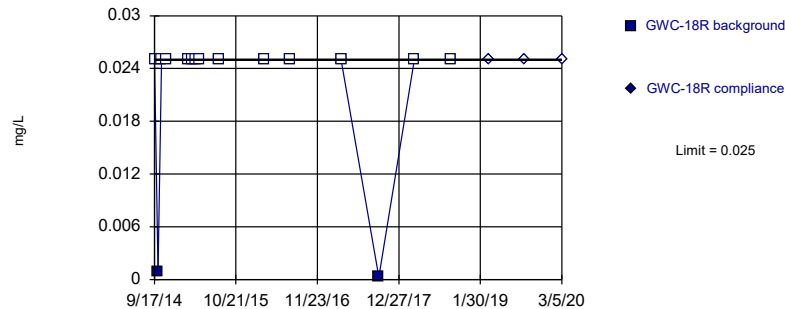


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

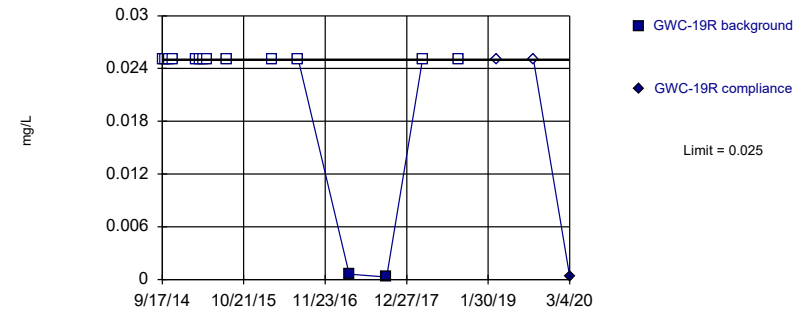


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.0042 (J)	
10/4/2014	0.0024 (J)	
10/21/2014	0.002 (J)	
11/11/2014	0.0021 (J)	
3/3/2015	0.0017 (J)	
3/18/2015	0.0019 (J)	
4/6/2015	0.0014 (J)	
4/23/2015	0.0022 (J)	
7/29/2015	0.00098 (J)	
3/3/2016	<0.025 (D)	
7/13/2016	0.0022 (J)	
3/20/2017	0.002 (J)	
9/21/2017	0.0018 (J)	
3/14/2018	0.0017 (J)	
9/7/2018	<0.025	
3/11/2019		<0.025
9/9/2019		0.00082 (J)
3/4/2020		0.0024 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.025	
10/4/2014	0.0012 (J)	
10/21/2014	0.0011 (J)	
11/11/2014	0.0015 (J)	
3/3/2015	0.0012 (J)	
3/18/2015	<0.025	
4/6/2015	0.00083 (J)	
4/23/2015	0.0012 (J)	
7/29/2015	<0.025	
3/4/2016	<0.025	
7/14/2016	0.0124 (J)	
3/21/2017	0.0005 (J)	
9/22/2017	0.0007 (J)	
3/14/2018	<0.025	
9/11/2018	<0.025	
3/12/2019		<0.025
9/10/2019		<0.025
3/5/2020		0.00023 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.025	
10/4/2014	0.00086 (J)	
10/21/2014	<0.025	
11/11/2014	<0.025	
3/3/2015	<0.025	
3/18/2015	<0.025	
4/7/2015	<0.025	
4/23/2015	<0.025	
7/29/2015	<0.025	
3/7/2016	<0.025	
7/13/2016	<0.025	
3/20/2017	<0.025	
9/21/2017	0.0003 (J)	
3/14/2018	<0.025	
9/7/2018	<0.025	
3/12/2019		<0.025
9/6/2019		<0.025
3/5/2020		<0.025

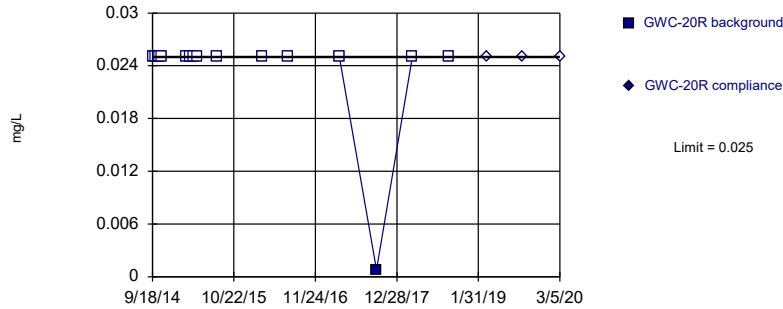
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.025	
10/4/2014	<0.025	
10/21/2014	<0.025	
11/5/2014	<0.025	
3/3/2015	<0.025	
3/19/2015	<0.025	
4/7/2015	<0.025	
4/24/2015	<0.025	
7/29/2015	<0.025	
3/7/2016	<0.025	
7/14/2016	<0.025	
3/21/2017	0.0006 (J)	
9/20/2017	0.0003 (J)	
3/14/2018	<0.025	
9/10/2018	<0.025	
3/12/2019		<0.025
9/9/2019		<0.025
3/4/2020		0.00036 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

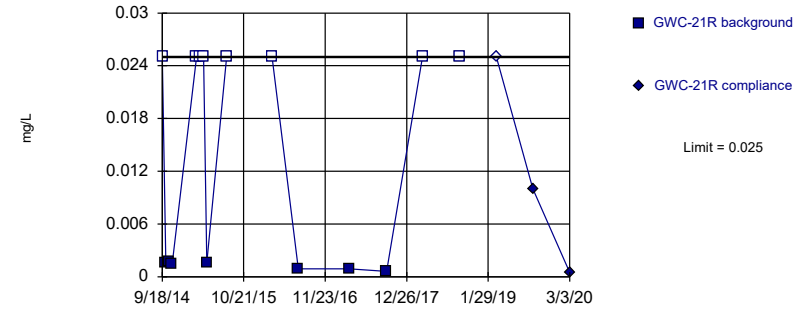


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

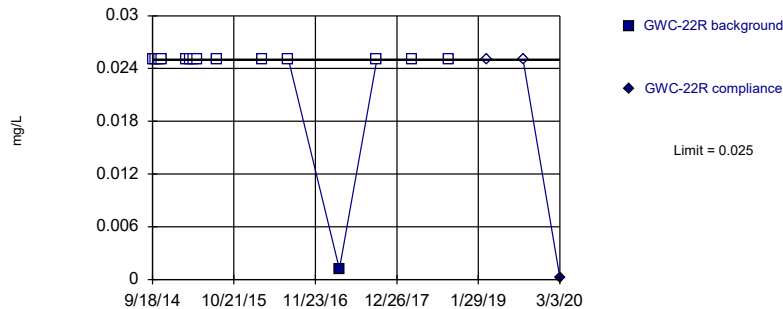


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

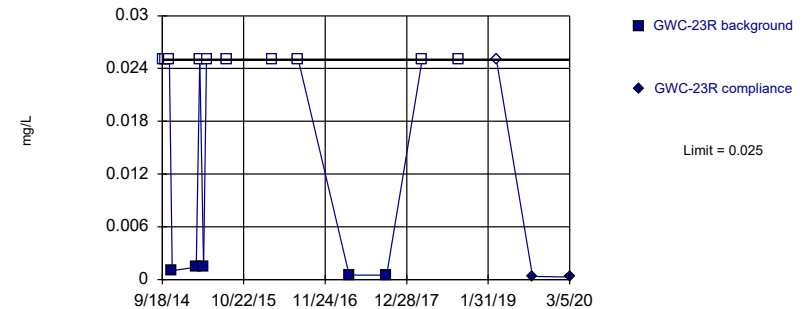


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.025	
10/5/2014	<0.025	
10/22/2014	<0.025	
11/5/2014	<0.025	
3/4/2015	<0.025	
3/19/2015	<0.025	
4/7/2015	<0.025	
4/24/2015	<0.025	
7/30/2015	<0.025	
3/8/2016	<0.025	
7/14/2016	<0.025	
3/22/2017	<0.025	
9/19/2017	0.0008 (J)	
3/14/2018	<0.025	
9/10/2018	<0.025	
3/12/2019		<0.025
9/6/2019		<0.025 (D)
3/5/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.025	
10/5/2014	0.0016 (J)	
10/22/2014	0.0018 (J)	
11/5/2014	0.0015 (J)	
3/4/2015	<0.025	
3/19/2015	<0.025	
4/8/2015	<0.025	
4/24/2015	0.0016 (J)	
7/30/2015	<0.025	
3/8/2016	<0.025	
7/15/2016	0.0009 (J)	
3/21/2017	0.0009 (J)	
9/19/2017	0.0006 (J)	
3/14/2018	<0.025	
9/10/2018	<0.025	
3/11/2019		<0.025
9/6/2019		0.01 (J)
3/3/2020		0.00049 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.025	
10/5/2014	<0.025	
10/22/2014	<0.025	
11/5/2014	<0.025	
3/4/2015	<0.025	
3/19/2015	<0.025	
4/8/2015	<0.025	
4/24/2015	<0.025	
7/30/2015	<0.025	
3/7/2016	<0.025	
7/14/2016	<0.025	
3/20/2017	0.0012 (J)	
9/19/2017	<0.025	
3/13/2018	<0.025	
9/7/2018	<0.025	
3/11/2019		<0.025
9/5/2019		<0.025
3/3/2020		0.00022 (J)

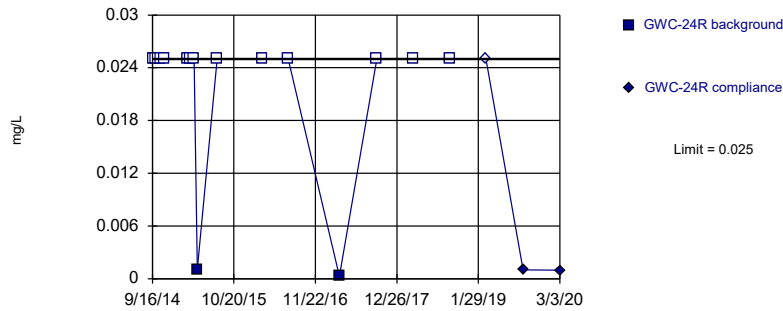
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.025	
10/5/2014	<0.025	
10/22/2014	<0.025	
11/5/2014	0.001 (J)	
3/4/2015	0.0014 (J)	
3/20/2015	<0.025	
4/8/2015	0.0014 (J)	
4/23/2015	<0.025	
7/30/2015	<0.025	
3/9/2016	<0.025	
7/15/2016	<0.025	
3/22/2017	0.0005 (J)	
9/21/2017	0.0005 (J)	
3/14/2018	<0.025	
9/11/2018	<0.025	
3/12/2019		<0.025
9/6/2019		0.00037 (J)
3/5/2020		0.0003 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

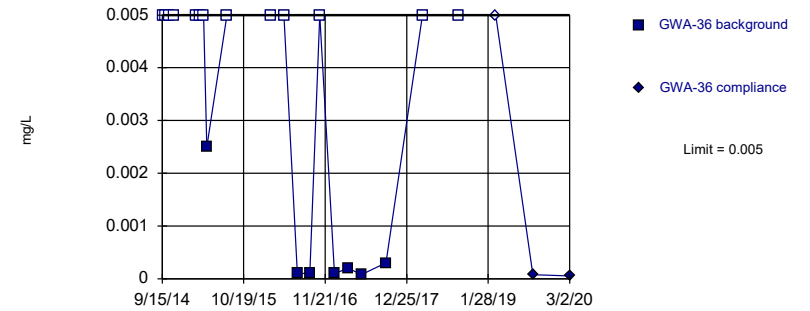


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

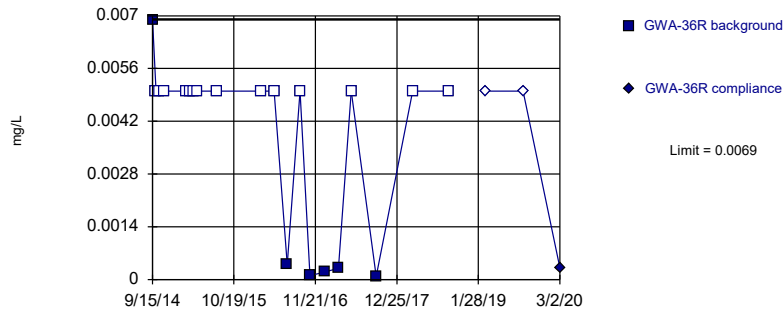


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

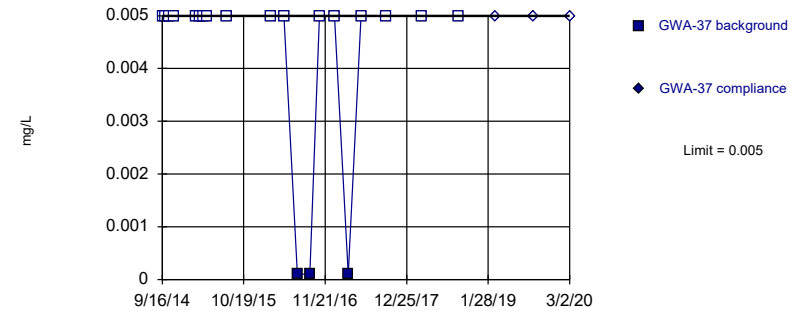


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	<0.025	
10/4/2014	<0.025	
10/23/2014	<0.025	
11/10/2014	<0.025	
3/4/2015	<0.025	
3/20/2015	<0.025	
4/8/2015	<0.025	
4/23/2015	0.0011 (J)	
7/30/2015	<0.025	
3/4/2016	<0.025	
7/12/2016	<0.025	
3/20/2017	0.0003 (J)	
9/19/2017	<0.025	
3/13/2018	<0.025	
9/11/2018	<0.025	
3/8/2019		<0.025
9/5/2019		0.001 (JD)
3/3/2020		0.00097 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	0.0025 (J)	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/2/2016	<0.005	
7/7/2016	0.0001 (J)	
9/7/2016	0.0001 (J)	
10/25/2016	<0.005	
1/5/2017	0.0001 (J)	
3/15/2017	0.0002 (J)	
5/17/2017	8E-05 (J)	
9/15/2017	0.0003 (J)	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		7.6E-05 (J)
3/2/2020		5.2E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0069 (J)	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/2/2016	<0.005	
7/6/2016	0.0004 (J)	
9/7/2016	<0.005	
10/25/2016	0.0001 (J)	
1/5/2017	0.0002 (J)	
3/14/2017	0.0003 (J)	
5/16/2017	<0.005	
9/15/2017	8E-05 (J)	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		0.00031 (J)

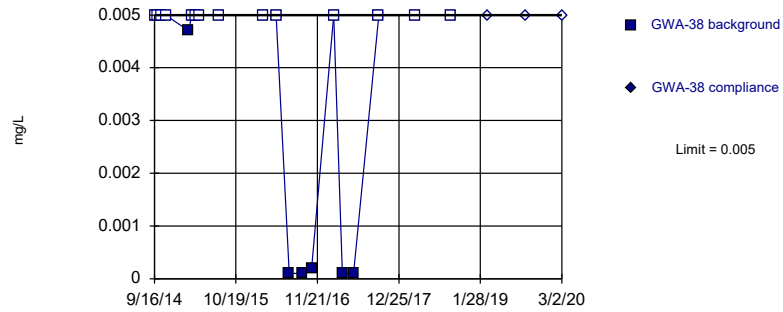
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/3/2016	<0.005	
7/8/2016	0.0001 (J)	
9/7/2016	0.0001 (J)	
10/25/2016	<0.005	
1/6/2017	<0.005	
3/14/2017	0.0001 (J)	
5/16/2017	<0.005	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005

Within Limit

Prediction Limit
 Intrawell Non-parametric

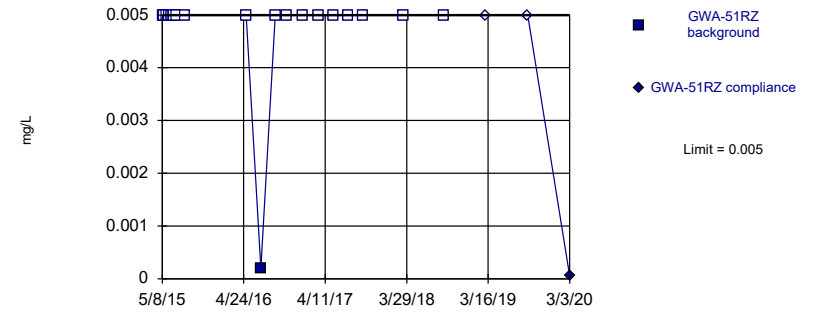


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

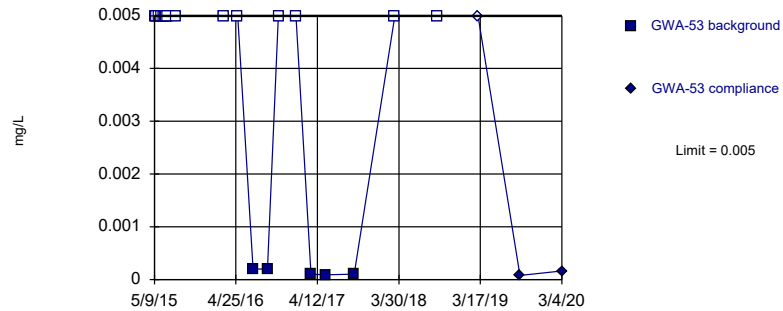


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

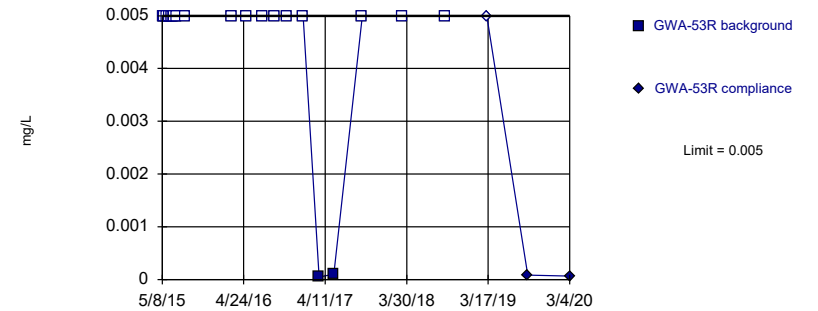


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	<0.005	
10/3/2014	<0.005	
10/20/2014	<0.005	
11/10/2014	<0.005	
3/2/2015	0.0047 (J)	
3/17/2015	<0.005	
4/6/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/7/2016	0.0001 (J)	
9/8/2016	0.0001 (J)	
10/25/2016	0.0002 (J)	
2/9/2017	<0.005	
3/23/2017	0.0001 (J)	
5/17/2017	0.0001 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005 (D)
3/2/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.005	
5/17/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
5/4/2016	<0.005 (D)	
7/7/2016	0.0002 (JD)	
9/8/2016	<0.005 (D)	
10/26/2016	<0.005 (D)	
1/6/2017	<0.005 (D)	
3/15/2017	<0.005 (D)	
5/18/2017	<0.005 (D)	
7/19/2017	<0.005 (D)	
9/19/2017	<0.005 (D)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/8/2019		<0.005
9/4/2019		<0.005
3/3/2020		5.1E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.005	
5/18/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/17/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/8/2016	0.0002 (J)	
9/8/2016	0.0002 (J)	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	0.0001 (J)	
5/19/2017	9E-05 (J)	
9/19/2017	0.0001 (J)	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		8E-05 (J)
3/4/2020		0.00016 (J)

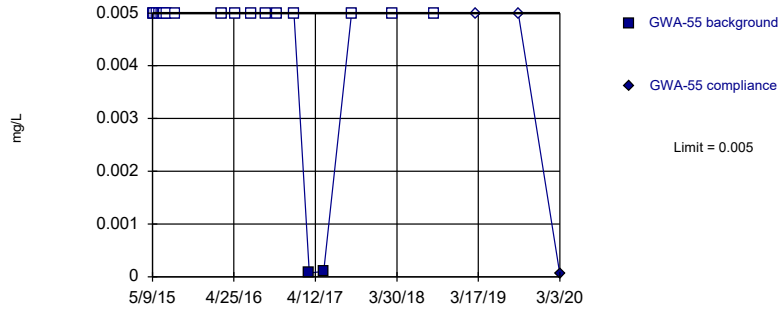
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.005	
5/17/2015	<0.005	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	<0.005	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	<0.005	
9/7/2016	<0.005	
10/27/2016	<0.005	
1/6/2017	<0.005	
3/16/2017	5E-05 (J)	
5/19/2017	0.0001 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/5/2019		8.3E-05 (J)
3/4/2020		6.6E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

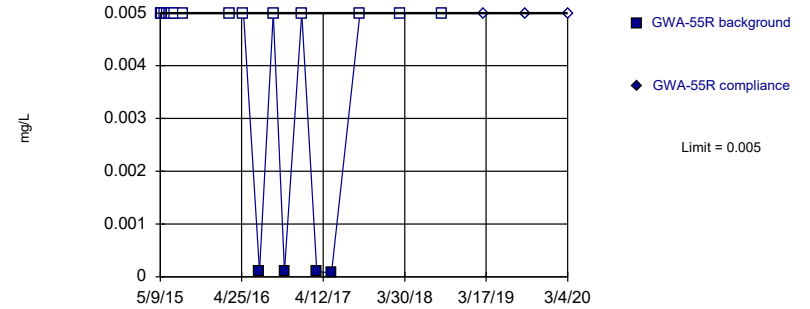


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

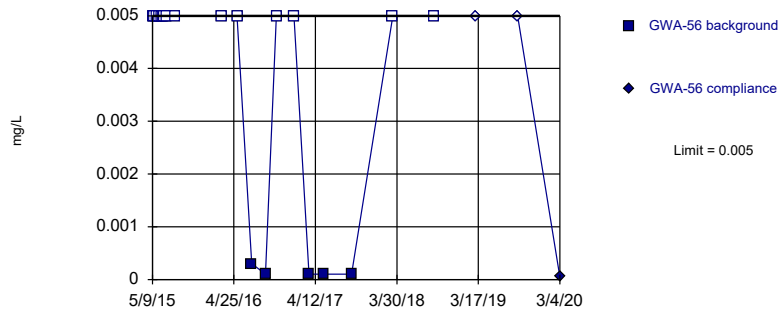


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

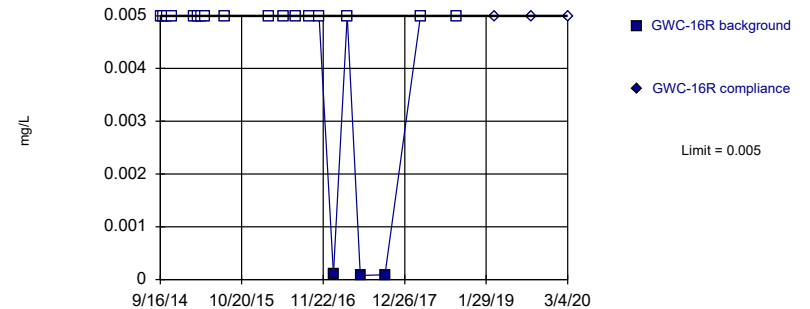


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.005	
5/18/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/2/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	<0.005	
9/9/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/16/2017	7E-05 (J)	
5/18/2017	0.0001 (J)	
9/15/2017	<0.005	
3/12/2018	<0.005	
9/7/2018	<0.005	
3/8/2019		<0.005
9/5/2019		<0.005
3/3/2020		4.8E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.005	
5/18/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
5/3/2016	<0.005	
7/11/2016	0.0001 (J)	
9/9/2016	<0.005	
10/27/2016	0.0001 (J)	
1/9/2017	<0.005	
3/16/2017	0.0001 (J)	
5/18/2017	7E-05 (J)	
9/18/2017	<0.005	
3/12/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/5/2019		<0.005
3/4/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.005	
5/19/2015	<0.005	
5/26/2015	<0.005	
6/9/2015	<0.005	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	<0.005	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
5/9/2016	<0.005	
7/11/2016	0.0003 (J)	
9/9/2016	0.0001 (J)	
10/26/2016	<0.005	
1/9/2017	<0.005	
3/15/2017	0.0001 (J)	
5/18/2017	0.0001 (J)	
9/15/2017	0.0001 (J)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/4/2020		5E-05 (J)

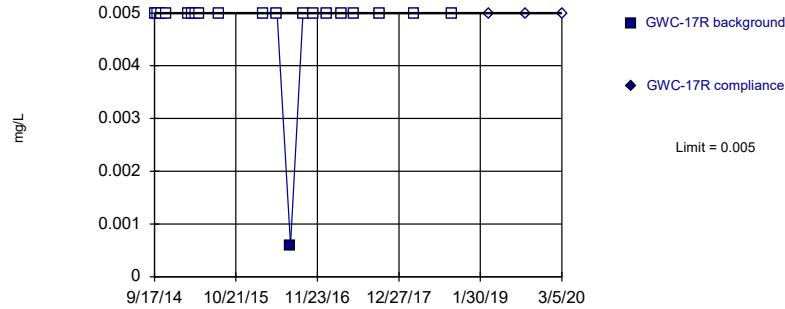
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/6/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/3/2016	<0.005 (D)	
5/10/2016	<0.005	
7/13/2016	<0.005	
9/15/2016	<0.005	
11/2/2016	<0.005	
1/11/2017	0.0001 (J)	
3/20/2017	<0.005	
5/23/2017	8E-05 (J)	
9/21/2017	9E-05 (J)	
3/14/2018	<0.005	
9/7/2018	<0.005	
3/11/2019		<0.005
9/9/2019		<0.005
3/4/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

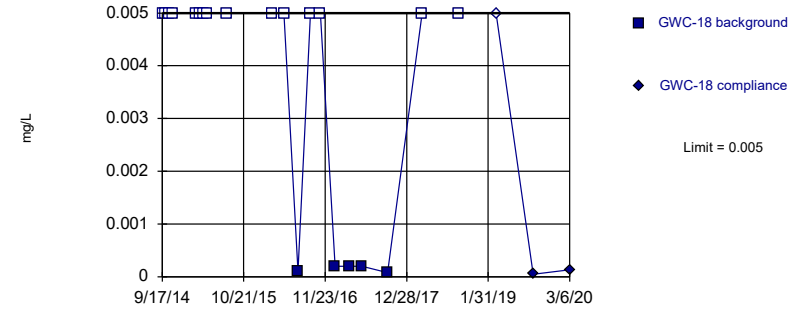


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

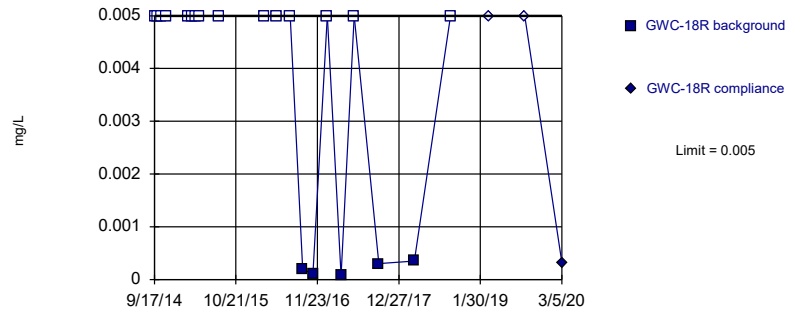


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

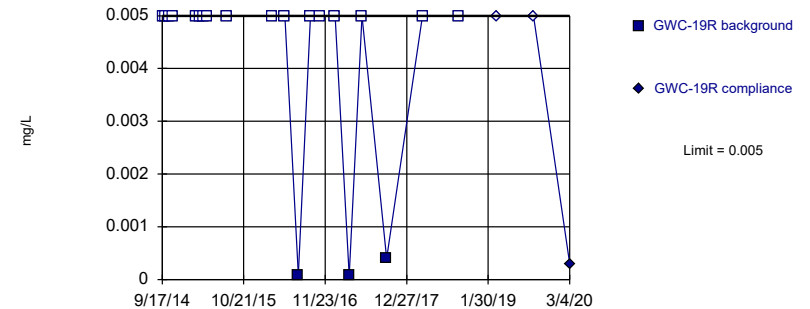


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/6/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/4/2016	<0.005	
5/10/2016	<0.005	
7/14/2016	0.0006 (J)	
9/14/2016	<0.005	
11/1/2016	<0.005	
1/11/2017	<0.005	
3/21/2017	<0.005	
5/23/2017	<0.005	
9/22/2017	<0.005	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/10/2019		<0.005
3/5/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	0.0001 (J)	
9/13/2016	<0.005	
10/31/2016	<0.005	
1/12/2017	0.0002 (J)	
3/23/2017	0.0002 (J)	
5/23/2017	0.0002 (J)	
9/25/2017	8E-05 (J)	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/9/2019		5E-05 (J)
3/6/2020		0.00013 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	<0.005	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	<0.005	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/13/2016	<0.005	
9/12/2016	0.0002 (J)	
11/1/2016	0.0001 (J)	
1/11/2017	<0.005	
3/20/2017	7E-05 (J)	
5/22/2017	<0.005	
9/21/2017	0.0003 (J)	
3/14/2018	0.00035 (J)	
9/7/2018	<0.005	
3/12/2019		<0.005
9/6/2019		<0.005
3/5/2020		0.00032 (J)

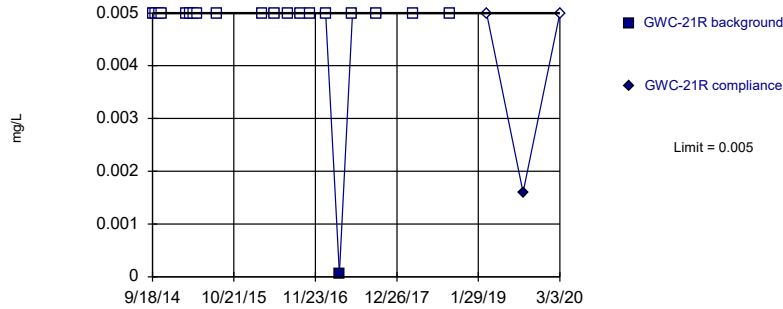
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	<0.005	
3/3/2015	<0.005	
3/19/2015	<0.005	
4/7/2015	<0.005	
4/24/2015	<0.005	
7/29/2015	<0.005	
3/7/2016	<0.005	
5/9/2016	<0.005	
7/14/2016	9E-05 (J)	
9/12/2016	<0.005	
10/31/2016	<0.005	
1/11/2017	<0.005	
3/21/2017	7E-05 (J)	
5/22/2017	<0.005	
9/20/2017	0.0004 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/12/2019		<0.005
9/9/2019		<0.005
3/4/2020		0.0003 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

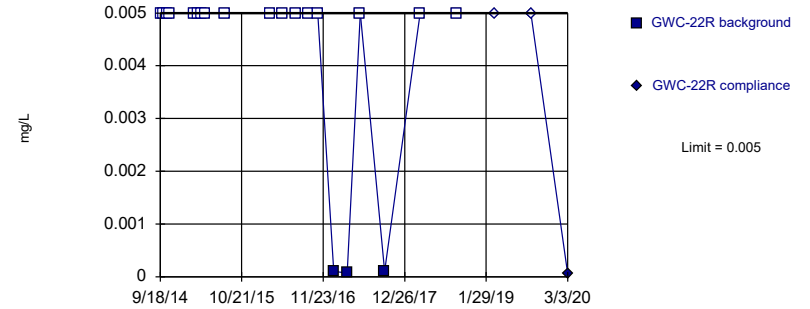


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

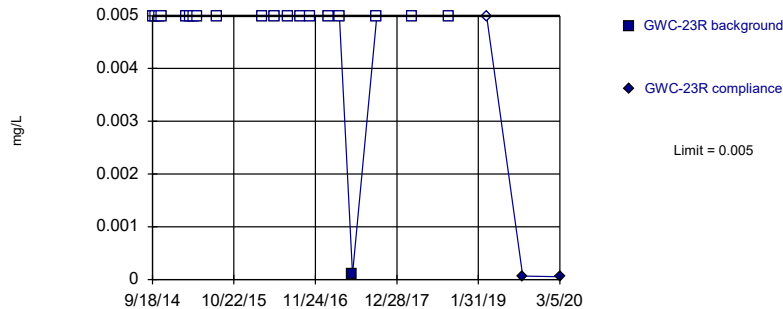


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

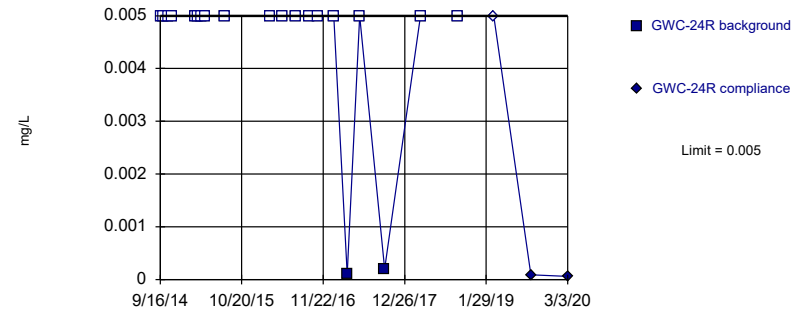


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:14 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	<0.005	
5/9/2016	<0.005	
7/15/2016	<0.005	
9/9/2016	<0.005	
10/27/2016	<0.005	
1/12/2017	<0.005	
3/21/2017	6E-05 (J)	
5/23/2017	<0.005	
9/19/2017	<0.005	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/11/2019		<0.005
9/6/2019		0.0016 (J)
3/3/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	<0.005	
7/30/2015	<0.005	
3/7/2016	<0.005	
5/5/2016	<0.005	
7/14/2016	<0.005	
9/12/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	0.0001 (J)	
3/20/2017	7E-05 (J)	
5/23/2017	<0.005	
9/19/2017	0.0001 (J)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/11/2019		<0.005
9/5/2019		<0.005
3/3/2020		5.9E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/8/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/9/2016	<0.005	
5/6/2016	<0.005	
7/15/2016	<0.005	
9/14/2016	<0.005	
11/1/2016	<0.005	
1/25/2017	<0.005	
3/22/2017	<0.005	
5/24/2017	0.0001 (J)	
9/21/2017	<0.005	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/6/2019		6.8E-05 (J)
3/5/2020		5.2E-05 (J)

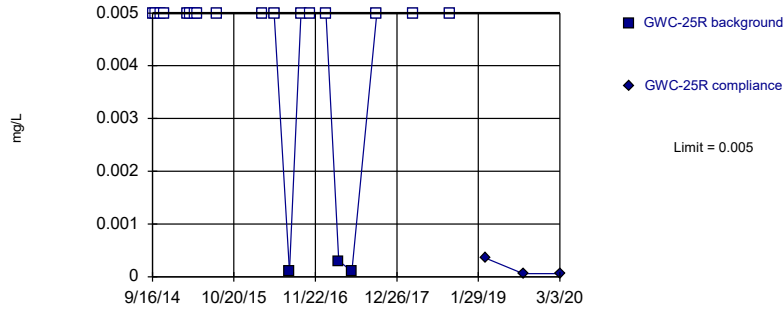
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/23/2014	<0.005	
11/10/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/8/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/4/2016	<0.005	
5/5/2016	<0.005	
7/12/2016	<0.005	
9/13/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/20/2017	0.0001 (J)	
5/19/2017	<0.005	
9/19/2017	0.0002 (J)	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		9.05E-05 (JD)
3/3/2020		5.7E-05 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

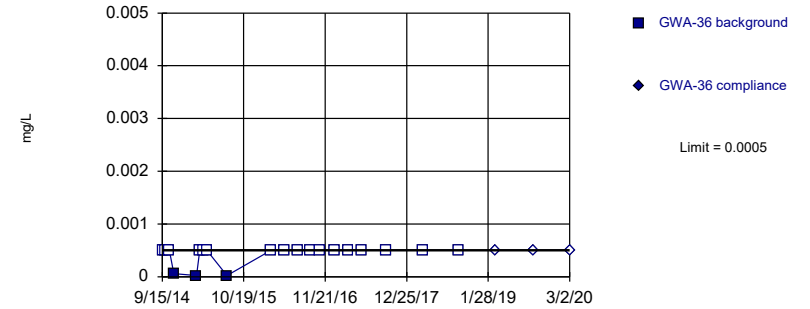


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

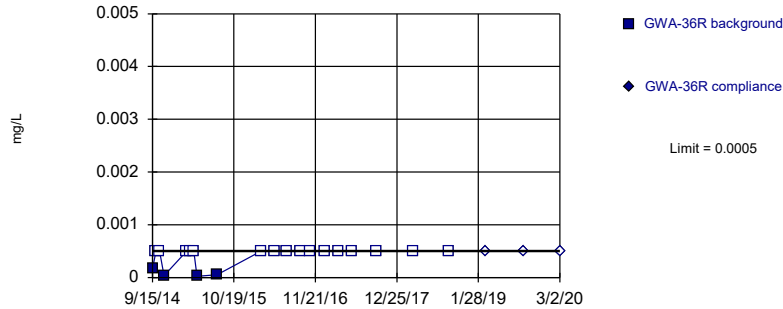


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

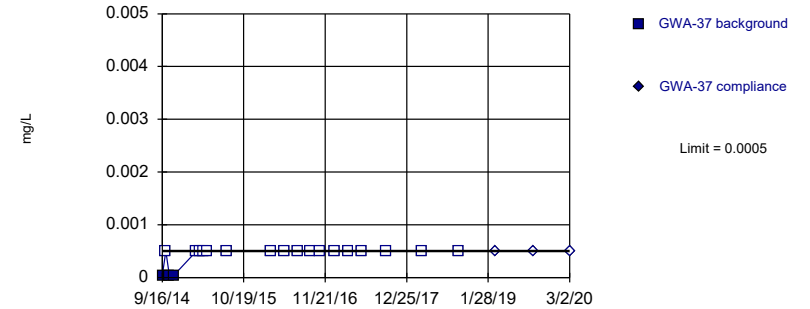


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.005	
10/4/2014	<0.005	
10/23/2014	<0.005	
11/10/2014	<0.005	
3/4/2015	<0.005	
3/20/2015	<0.005	
4/9/2015	<0.005	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/8/2016	<0.005	
5/4/2016	<0.005	
7/18/2016	0.0001 (J)	
9/13/2016	<0.005	
10/27/2016	<0.005	
1/13/2017	<0.005	
3/16/2017	0.0003 (J)	
5/19/2017	0.0001 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		0.00035 (J)
9/5/2019		6E-05 (J)
3/3/2020		5.9E-05 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.0005	
10/3/2014	<0.0005	
10/20/2014	<0.0005	
11/10/2014	5.8E-05 (J)	
3/2/2015	2.04E-05 (J)	
3/17/2015	<0.0005	
4/5/2015	<0.0005	
4/21/2015	<0.0005	
7/28/2015	2.13E-05 (J)	
3/1/2016	<0.0005	
5/2/2016	<0.0005	
7/7/2016	<0.0005	
9/7/2016	<0.0005	
10/25/2016	<0.0005	
1/5/2017	<0.0005	
3/15/2017	<0.0005	
5/17/2017	<0.0005	
9/15/2017	<0.0005	
3/12/2018	<0.0005	
9/6/2018	<0.0005	
3/6/2019		<0.0005
9/4/2019		<0.0005
3/2/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.000172 (J)	
10/3/2014	<0.0005	
10/20/2014	<0.0005	
11/10/2014	3.84E-05 (J)	
3/2/2015	<0.0005	
3/17/2015	<0.0005	
4/5/2015	<0.0005	
4/21/2015	2.39E-05 (J)	
7/28/2015	5.2E-05 (J)	
3/1/2016	<0.0005	
5/2/2016	<0.0005	
7/6/2016	<0.0005	
9/7/2016	<0.0005	
10/25/2016	<0.0005	
1/5/2017	<0.0005	
3/14/2017	<0.0005	
5/16/2017	<0.0005	
9/15/2017	<0.0005	
3/12/2018	<0.0005	
9/6/2018	<0.0005	
3/7/2019		<0.0005
9/4/2019		<0.0005
3/2/2020		<0.0005

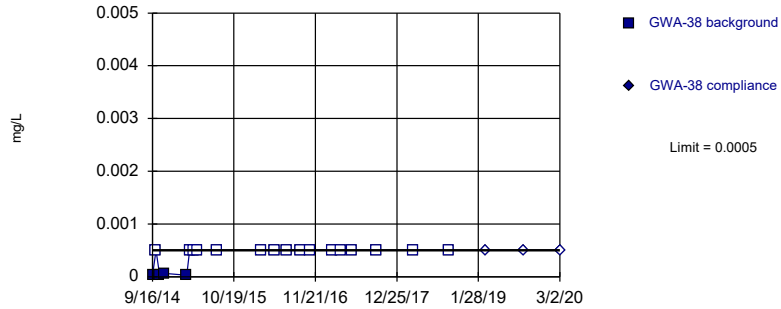
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	4.23E-05 (J)	
10/3/2014	<0.0005	
10/20/2014	3.87E-05 (J)	
11/10/2014	3.34E-05 (J)	
3/2/2015	<0.0005	
3/17/2015	<0.0005	
4/5/2015	<0.0005	
4/22/2015	<0.0005	
7/28/2015	<0.0005	
3/1/2016	<0.0005	
5/3/2016	<0.0005	
7/8/2016	<0.0005	
9/7/2016	<0.0005	
10/25/2016	<0.0005	
1/6/2017	<0.0005	
3/14/2017	<0.0005	
5/16/2017	<0.0005	
9/15/2017	<0.0005	
3/12/2018	<0.0005	
9/6/2018	<0.0005	
3/6/2019		<0.0005
9/4/2019		<0.0005
3/2/2020		<0.0005

Within Limit

Prediction Limit Intrawell Non-parametric

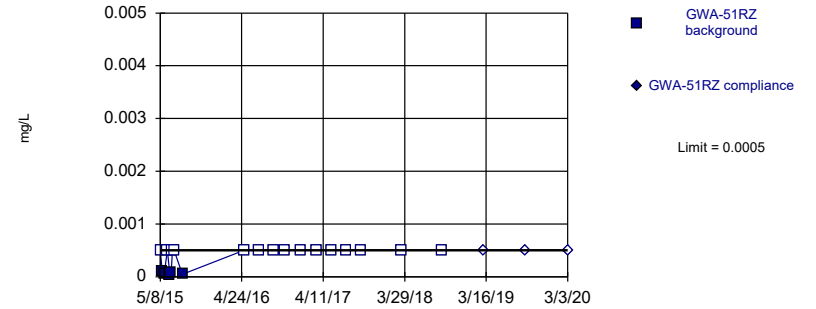


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

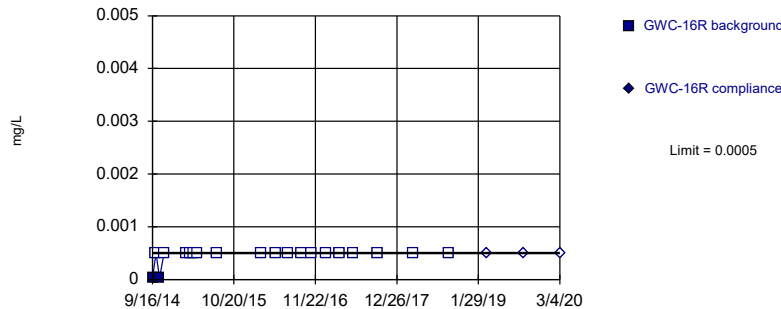


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

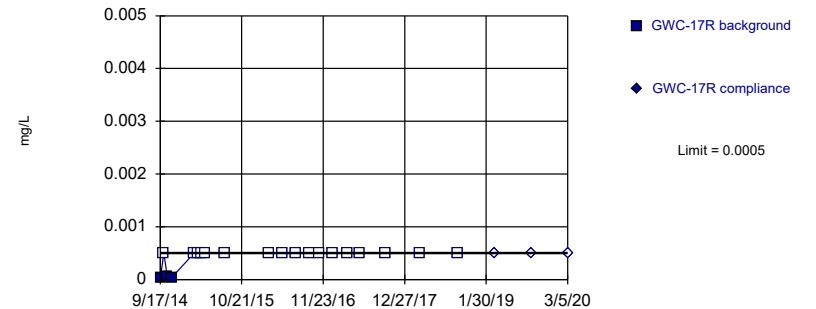


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	2.75E-05 (J)	
10/3/2014	<0.0005	
10/20/2014	4.07E-05 (J)	
11/10/2014	6.86E-05 (J)	
3/2/2015	3.07E-05 (J)	
3/17/2015	<0.0005	
4/6/2015	<0.0005	
4/22/2015	<0.0005	
7/28/2015	<0.0005	
3/2/2016	<0.0005	
5/3/2016	<0.0005	
7/7/2016	<0.0005	
9/8/2016	<0.0005	
10/25/2016	<0.0005	
2/9/2017	<0.0005	
3/23/2017	<0.0005	
5/17/2017	<0.0005	
9/19/2017	<0.0005	
3/13/2018	<0.0005	
9/6/2018	<0.0005	
3/7/2019		<0.0005
9/4/2019		<0.0005 (D)
3/2/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.0005	
5/17/2015	0.000101 (J)	
5/25/2015	4.88E-05 (J)	
6/8/2015	<0.0005	
6/18/2015	4.1E-05 (J)	
6/24/2015	8.41E-05 (J)	
6/30/2015	<0.0005	
7/6/2015	<0.0005	
8/12/2015	4.91E-05 (J)	
5/4/2016	<0.0005 (D)	
7/7/2016	<0.0005 (D)	
9/8/2016	<0.0005 (D)	
10/26/2016	<0.0005 (D)	
1/6/2017	<0.0005 (D)	
3/15/2017	<0.0005 (D)	
5/18/2017	<0.0005 (D)	
7/19/2017	<0.0005 (D)	
9/19/2017	<0.0005 (D)	
3/13/2018	<0.0005	
9/7/2018	<0.0005	
3/8/2019		<0.0005
9/4/2019		<0.0005
3/3/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	2.69E-05 (J)	
10/4/2014	<0.0005	
10/21/2014	3.18E-05 (J)	
11/11/2014	<0.0005	
3/3/2015	<0.0005	
3/18/2015	<0.0005	
4/6/2015	<0.0005	
4/23/2015	<0.0005	
7/29/2015	<0.0005	
3/3/2016	<0.0005 (D)	
5/10/2016	<0.0005	
7/13/2016	<0.0005	
9/15/2016	<0.0005	
11/2/2016	<0.0005	
1/11/2017	<0.0005	
3/20/2017	<0.0005	
5/23/2017	<0.0005	
9/21/2017	<0.0005	
3/14/2018	<0.0005	
9/7/2018	<0.0005	
3/11/2019		<0.0005
9/9/2019		<0.0005
3/4/2020		<0.0005

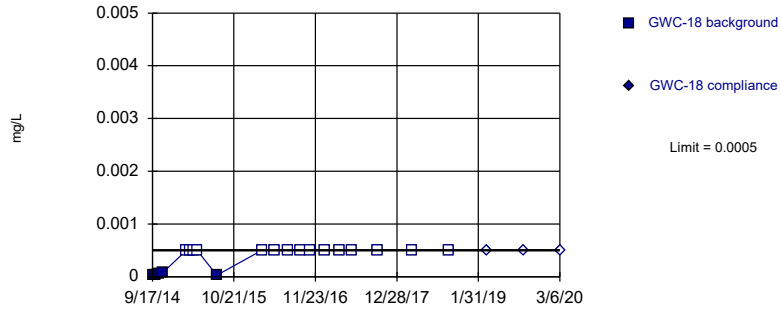
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	2.97E-05 (J)	
10/4/2014	<0.0005	
10/21/2014	5.02E-05 (J)	
11/11/2014	3.66E-05 (J)	
3/3/2015	<0.0005	
3/18/2015	<0.0005	
4/6/2015	<0.0005	
4/23/2015	<0.0005	
7/29/2015	<0.0005	
3/4/2016	<0.0005	
5/10/2016	<0.0005	
7/14/2016	<0.0005	
9/14/2016	<0.0005	
11/1/2016	<0.0005	
1/11/2017	<0.0005	
3/21/2017	<0.0005	
5/23/2017	<0.0005	
9/22/2017	<0.0005	
3/14/2018	<0.0005	
9/11/2018	<0.0005	
3/12/2019		<0.0005
9/10/2019		<0.0005
3/5/2020		<0.0005

Within Limit

Prediction Limit Intrawell Non-parametric

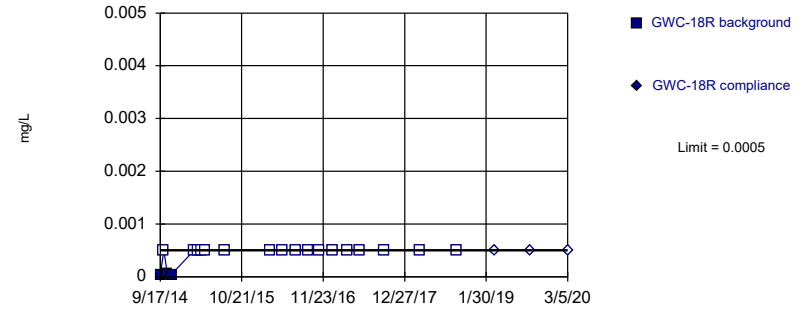


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

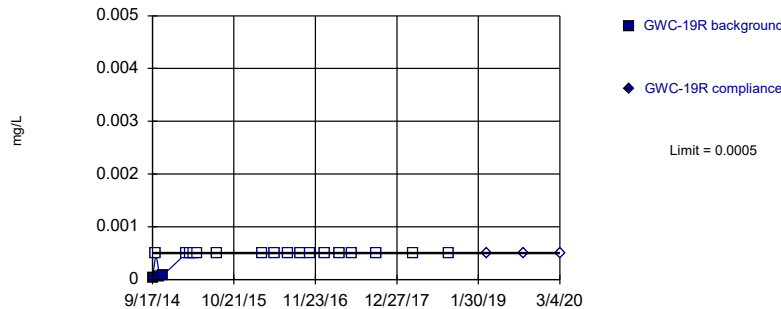


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

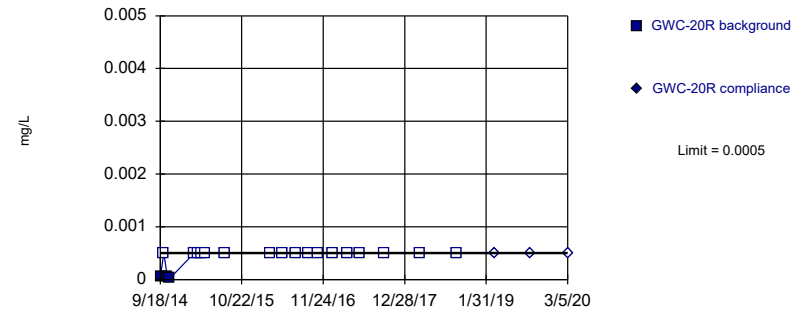


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	4.24E-05 (J)	
10/4/2014	2.5E-05 (J)	
10/21/2014	6.4E-05 (J)	
11/5/2014	7.02E-05 (J)	
3/3/2015	<0.0005	
3/18/2015	<0.0005	
4/7/2015	<0.0005	
4/23/2015	<0.0005	
7/29/2015	3.14E-05 (J)	
3/7/2016	<0.0005	
5/5/2016	<0.0005	
7/13/2016	<0.0005	
9/13/2016	<0.0005	
10/31/2016	<0.0005	
1/12/2017	<0.0005	
3/23/2017	<0.0005	
5/23/2017	<0.0005	
9/25/2017	<0.0005	
3/14/2018	<0.0005	
9/11/2018	<0.0005	
3/12/2019		<0.0005
9/9/2019		<0.0005
3/6/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	3.5E-05 (J)	
10/4/2014	<0.0005	
10/21/2014	5.35E-05 (J)	
11/11/2014	4.64E-05 (J)	
3/3/2015	<0.0005	
3/18/2015	<0.0005	
4/7/2015	<0.0005	
4/23/2015	<0.0005	
7/29/2015	<0.0005	
3/7/2016	<0.0005	
5/5/2016	<0.0005	
7/13/2016	<0.0005	
9/12/2016	<0.0005	
11/1/2016	<0.0005	
1/11/2017	<0.0005	
3/20/2017	<0.0005	
5/22/2017	<0.0005	
9/21/2017	<0.0005	
3/14/2018	<0.0005	
9/7/2018	<0.0005	
3/12/2019		<0.0005
9/6/2019		<0.0005
3/5/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	4.15E-05 (J)	
10/4/2014	<0.0005	
10/21/2014	5.89E-05 (J)	
11/5/2014	7.28E-05 (J)	
3/3/2015	<0.0005	
3/19/2015	<0.0005	
4/7/2015	<0.0005	
4/24/2015	<0.0005	
7/29/2015	<0.0005	
3/7/2016	<0.0005	
5/9/2016	<0.0005	
7/14/2016	<0.0005	
9/12/2016	<0.0005	
10/31/2016	<0.0005	
1/11/2017	<0.0005	
3/21/2017	<0.0005	
5/22/2017	<0.0005	
9/20/2017	<0.0005	
3/14/2018	<0.0005	
9/10/2018	<0.0005	
3/12/2019		<0.0005
9/9/2019		<0.0005
3/4/2020		<0.0005

Prediction Limit

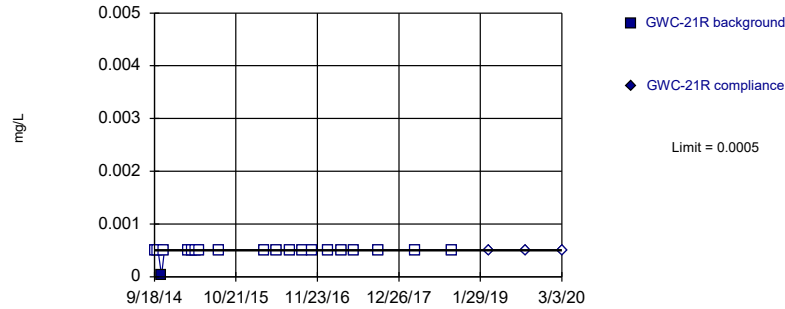
Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	5.34E-05 (J)	
10/5/2014	<0.0005	
10/22/2014	4.88E-05 (J)	
11/5/2014	2.85E-05 (J)	
3/4/2015	<0.0005	
3/19/2015	<0.0005	
4/7/2015	<0.0005	
4/24/2015	<0.0005	
7/30/2015	<0.0005	
3/8/2016	<0.0005	
5/9/2016	<0.0005	
7/14/2016	<0.0005	
9/12/2016	<0.0005	
10/31/2016	<0.0005	
1/12/2017	<0.0005	
3/22/2017	<0.0005	
5/22/2017	<0.0005	
9/19/2017	<0.0005	
3/14/2018	<0.0005	
9/10/2018	<0.0005	
3/12/2019		<0.0005
9/6/2019		<0.0005 (D)
3/5/2020		<0.0005

Within Limit

Prediction Limit Intrawell Non-parametric

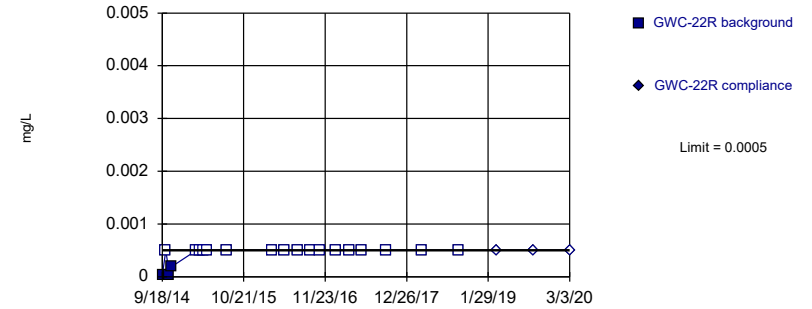


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

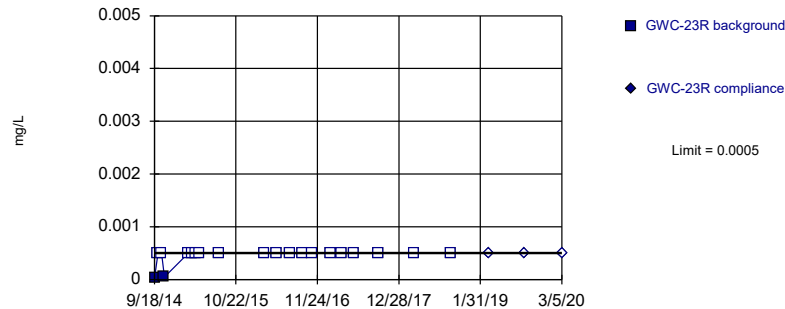


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

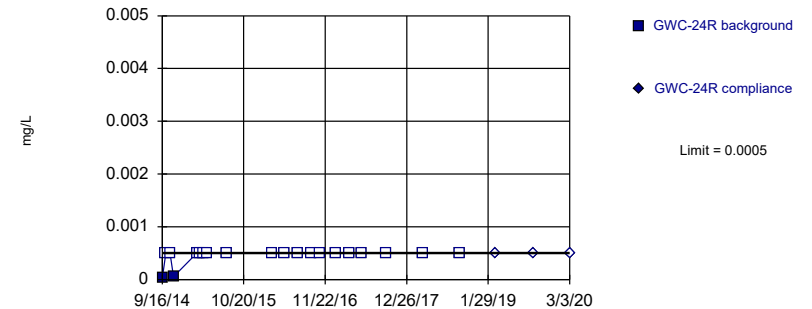


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.0005	
10/5/2014	<0.0005	
10/22/2014	2.57E-05 (J)	
11/5/2014	<0.0005	
3/4/2015	<0.0005	
3/19/2015	<0.0005	
4/8/2015	<0.0005	
4/24/2015	<0.0005	
7/30/2015	<0.0005	
3/8/2016	<0.0005	
5/9/2016	<0.0005	
7/15/2016	<0.0005	
9/9/2016	<0.0005	
10/27/2016	<0.0005	
1/12/2017	<0.0005	
3/21/2017	<0.0005	
5/23/2017	<0.0005	
9/19/2017	<0.0005	
3/14/2018	<0.0005	
9/10/2018	<0.0005	
3/11/2019		<0.0005
9/6/2019		<0.0005
3/3/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	2.54E-05 (J)	
10/5/2014	<0.0005	
10/22/2014	2.83E-05 (J)	
11/5/2014	0.0002	
3/4/2015	<0.0005	
3/19/2015	<0.0005	
4/8/2015	<0.0005	
4/24/2015	<0.0005	
7/30/2015	<0.0005	
3/7/2016	<0.0005	
5/5/2016	<0.0005	
7/14/2016	<0.0005	
9/12/2016	<0.0005	
10/27/2016	<0.0005	
1/13/2017	<0.0005	
3/20/2017	<0.0005	
5/23/2017	<0.0005	
9/19/2017	<0.0005	
3/13/2018	<0.0005	
9/7/2018	<0.0005	
3/11/2019		<0.0005
9/5/2019		<0.0005
3/3/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	2.82E-05 (J)	
10/5/2014	<0.0005	
10/22/2014	<0.0005	
11/5/2014	4.83E-05 (J)	
3/4/2015	<0.0005	
3/20/2015	<0.0005	
4/8/2015	<0.0005	
4/23/2015	<0.0005	
7/30/2015	<0.0005	
3/9/2016	<0.0005	
5/6/2016	<0.0005	
7/15/2016	<0.0005	
9/14/2016	<0.0005	
11/1/2016	<0.0005	
1/25/2017	<0.0005	
3/22/2017	<0.0005	
5/24/2017	<0.0005	
9/21/2017	<0.0005	
3/14/2018	<0.0005	
9/11/2018	<0.0005	
3/12/2019		<0.0005
9/6/2019		<0.0005
3/5/2020		<0.0005

Prediction Limit

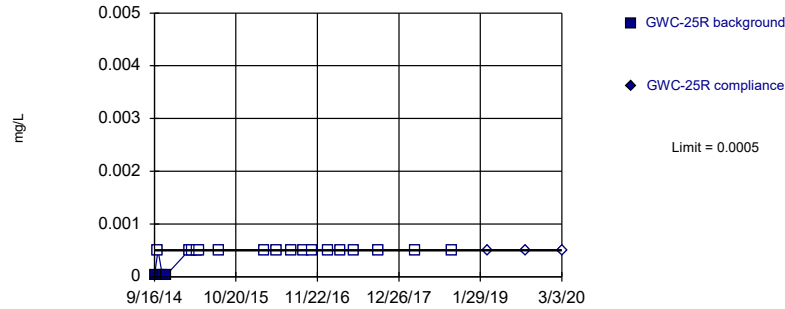
Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	2.81E-05 (J)	
10/4/2014	<0.0005	
10/23/2014	<0.0005	
11/10/2014	5.15E-05 (J)	
3/4/2015	<0.0005	
3/20/2015	<0.0005	
4/8/2015	<0.0005	
4/23/2015	<0.0005	
7/30/2015	<0.0005	
3/4/2016	<0.0005	
5/5/2016	<0.0005	
7/12/2016	<0.0005	
9/13/2016	<0.0005	
10/27/2016	<0.0005	
1/13/2017	<0.0005	
3/20/2017	<0.0005	
5/19/2017	<0.0005	
9/19/2017	<0.0005	
3/13/2018	<0.0005	
9/11/2018	<0.0005	
3/8/2019		<0.0005
9/5/2019		<0.0005 (D)
3/3/2020		<0.0005

Within Limit

Prediction Limit
Intrawell Non-parametric

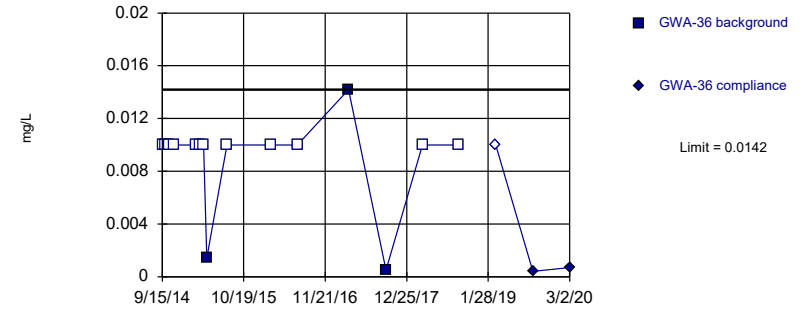


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

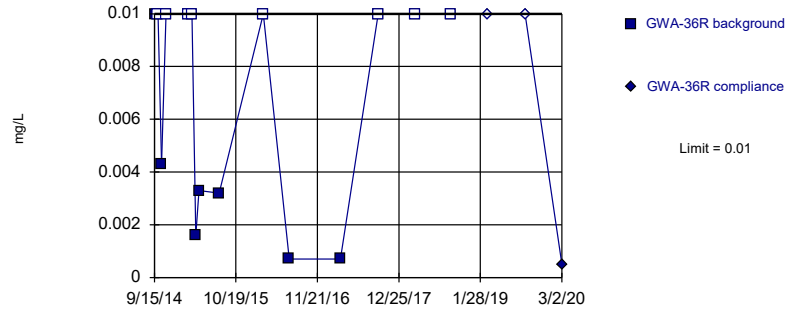


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

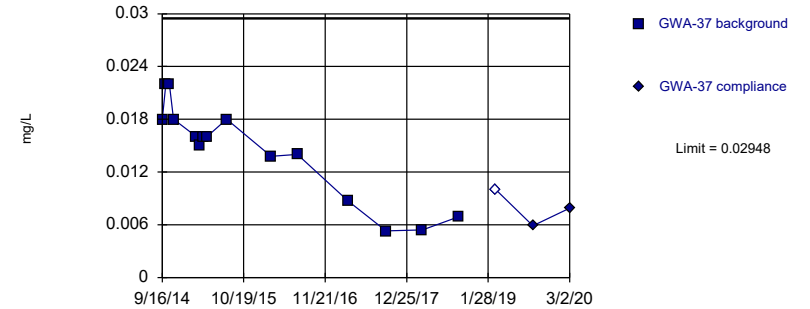


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01434, Std. Dev.=0.005448, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9052, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	3.13E-05 (J)	
10/4/2014	<0.0005	
10/23/2014	4.6E-05 (J)	
11/10/2014	2.5E-05 (J)	
3/4/2015	<0.0005	
3/20/2015	<0.0005	
4/9/2015	<0.0005	
4/23/2015	<0.0005	
7/30/2015	<0.0005	
3/8/2016	<0.0005	
5/4/2016	<0.0005	
7/18/2016	<0.0005	
9/13/2016	<0.0005	
10/27/2016	<0.0005	
1/13/2017	<0.0005	
3/16/2017	<0.0005	
5/19/2017	<0.0005	
9/19/2017	<0.0005	
3/13/2018	<0.0005	
9/11/2018	<0.0005	
3/8/2019		<0.0005
9/5/2019		<0.0005
3/3/2020		<0.0005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.01	
10/3/2014	<0.01	
10/20/2014	<0.01	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	<0.01	
4/21/2015	0.0014 (J)	
7/28/2015	<0.01	
3/1/2016	<0.01	
7/7/2016	<0.01	
3/15/2017	0.0142	
9/15/2017	0.0005 (J)	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/6/2019		<0.01
9/4/2019		0.00041 (J)
3/2/2020		0.00071 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.01	
10/3/2014	<0.01	
10/20/2014	0.0043	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	0.0016 (J)	
4/21/2015	0.0033	
7/28/2015	0.0032	
3/1/2016	<0.01	
7/6/2016	0.0007 (J)	
3/14/2017	0.0007 (J)	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/2/2020		0.00051 (J)

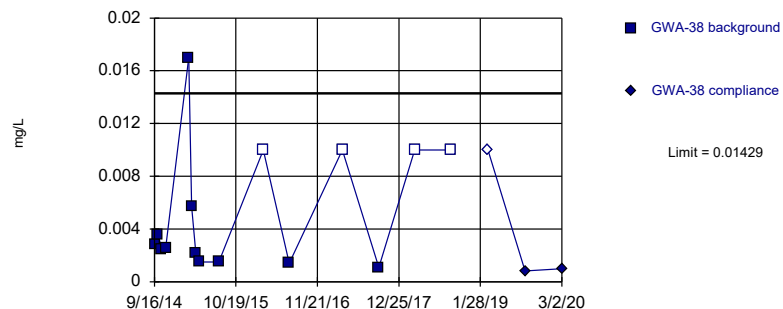
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.018	
10/3/2014	0.022	
10/20/2014	0.022	
11/10/2014	0.018	
3/2/2015	0.016	
3/17/2015	0.015	
4/5/2015	0.016	
4/22/2015	0.016	
7/28/2015	0.018	
3/1/2016	0.0138	
7/8/2016	0.014	
3/14/2017	0.0087 (J)	
9/15/2017	0.0053 (J)	
3/12/2018	0.0054 (J)	
9/6/2018	0.0069 (J)	
3/6/2019		<0.01
9/4/2019		0.0059 (J)
3/2/2020		0.0079 (J)

Within Limit

Prediction Limit Intrawell Parametric

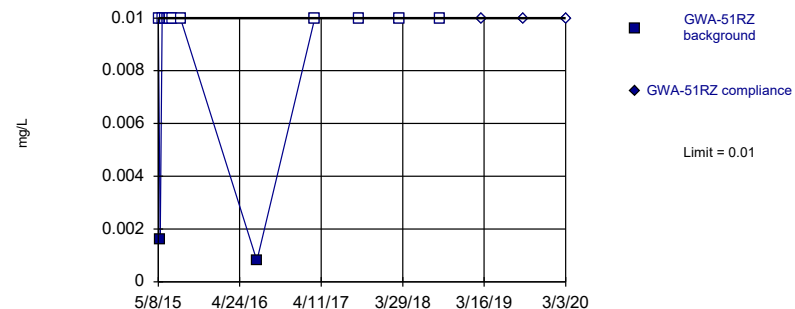


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05358, Std. Dev.=0.02374, n=15, 26.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8698, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

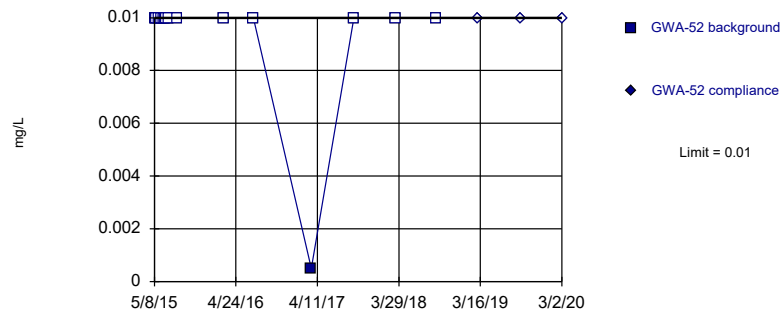


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

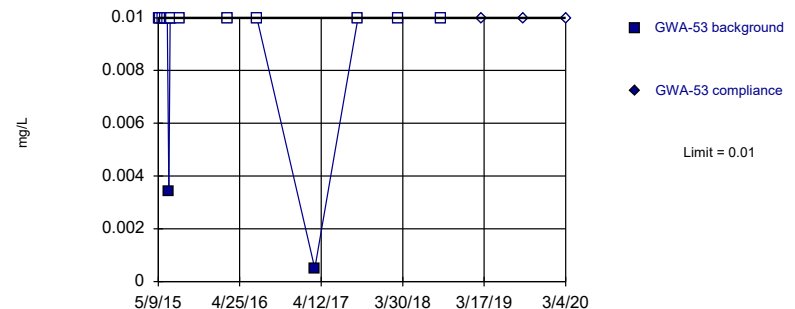


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.0028	
10/3/2014	0.0036	
10/20/2014	0.0025	
11/10/2014	0.0026	
3/2/2015	0.017	
3/17/2015	0.0057	
4/6/2015	0.0022 (J)	
4/22/2015	0.0015 (J)	
7/28/2015	0.0015 (J)	
3/2/2016	<0.01	
7/7/2016	0.0014 (J)	
3/23/2017	<0.01	
9/19/2017	0.0011 (J)	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.000825 (JD)
3/2/2020		0.001 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.01	
5/17/2015	0.0016 (J)	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
7/7/2016	0.0008 (JD)	
3/15/2017	<0.01 (D)	
9/19/2017	<0.01 (D)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/4/2019		<0.01
3/3/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
2/29/2016	<0.01	
7/8/2016	<0.01	
3/15/2017	0.0005 (J)	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/2/2020		<0.01

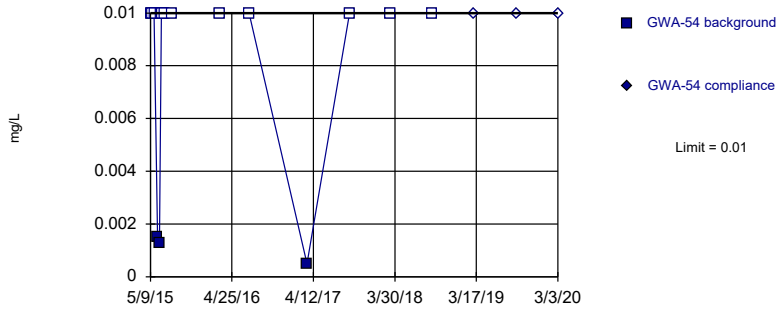
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.01	
5/18/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/17/2015	<0.01	
6/24/2015	0.0034	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
3/2/2016	<0.01	
7/8/2016	<0.01	
3/16/2017	0.0005 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01
3/4/2020		<0.01

Within Limit

Prediction Limit
 Intrawell Non-parametric

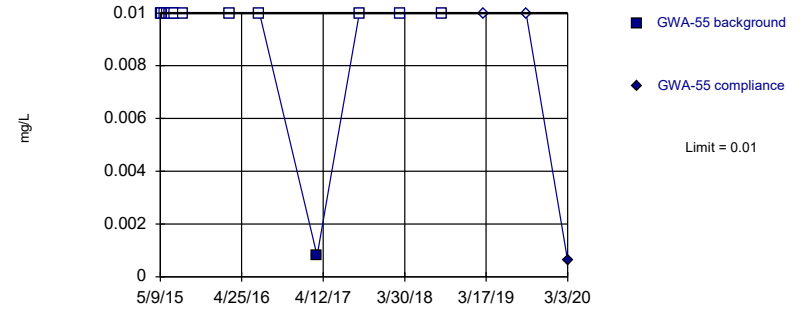


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

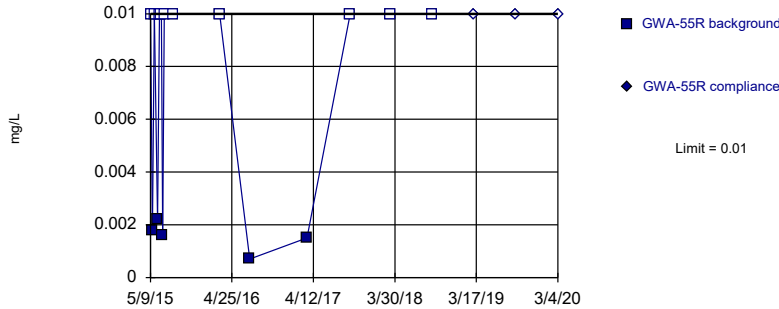


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

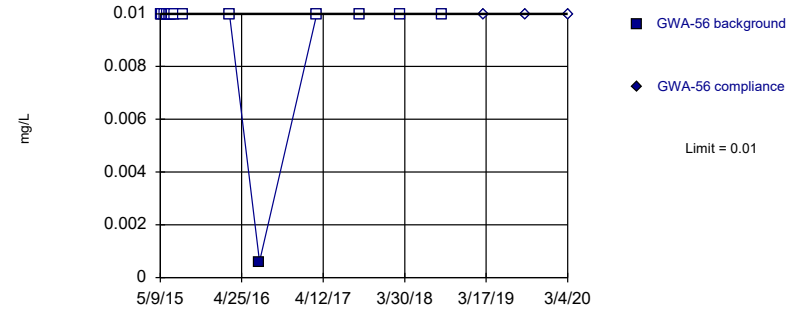


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.01	
5/18/2015	<0.01	
5/25/2015	<0.01	
6/9/2015	0.0015 (J)	
6/17/2015	0.0013 (J)	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/12/2015	<0.01	
3/2/2016	<0.01	
7/8/2016	<0.01	
3/15/2017	0.0005 (J)	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/5/2019		<0.01
3/3/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.01	
5/18/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/2/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	0.0008 (J)	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01
3/3/2020		0.00061 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.01	
5/18/2015	0.0018 (J)	
5/26/2015	<0.01	
6/9/2015	0.0022 (J)	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	0.0016 (J)	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
7/11/2016	0.0007 (J)	
3/16/2017	0.0015 (J)	
9/18/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/5/2019		<0.01
3/4/2020		<0.01

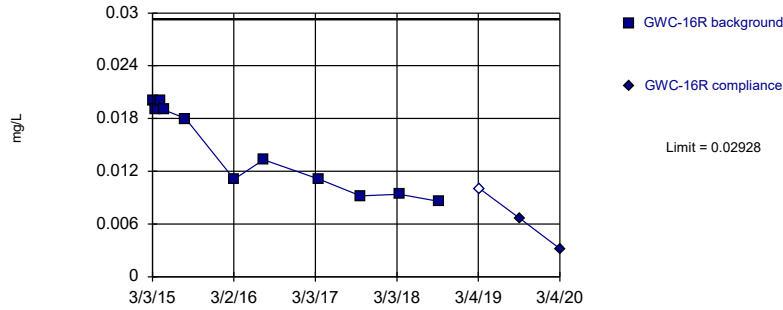
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.01	
5/19/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
7/11/2016	0.0006 (J)	
3/15/2017	<0.01	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/4/2020		<0.01

Within Limit

Prediction Limit
Intrawell Parametric

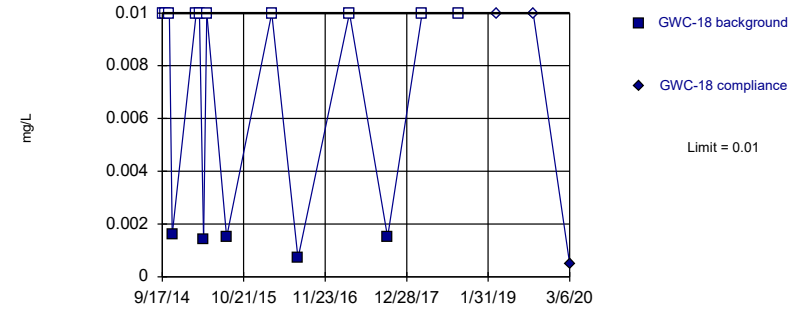


Background Data Summary: Mean=0.01443, Std. Dev.=0.004761, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8333, critical = 0.792. Kappa = 3.12 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

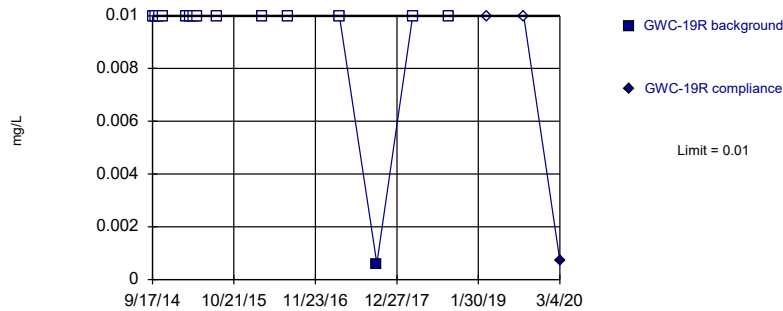


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

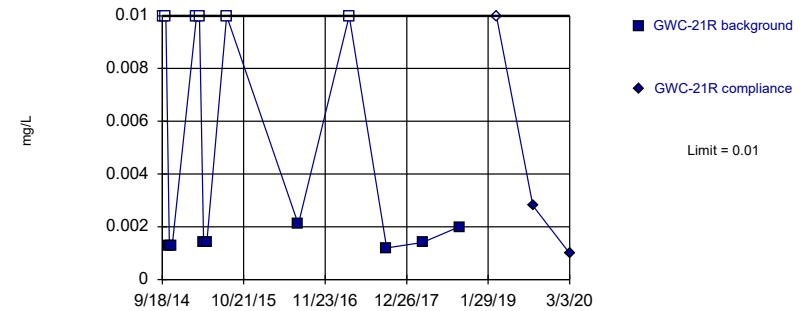


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 14 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.03	
10/4/2014	0.029	
10/21/2014	0.026	
11/11/2014	0.023	
3/3/2015	0.02	
3/18/2015	0.019	
4/6/2015	0.02	
4/23/2015	0.019	
7/29/2015	0.018	
3/3/2016	0.0111 (D)	
7/13/2016	0.0133	
3/20/2017	0.0111	
9/21/2017	0.0092 (J)	
3/14/2018	0.0094 (J)	
9/7/2018	0.0086 (J)	
3/11/2019		<0.01
9/9/2019		0.0066 (J)
3/4/2020		0.0032 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/5/2014	0.0016 (J)	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/7/2015	0.0014 (J)	
4/23/2015	<0.01	
7/29/2015	0.0015 (J)	
3/7/2016	<0.01	
7/13/2016	0.0007 (J)	
3/23/2017	<0.01	
9/25/2017	0.0015 (J)	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/9/2019		<0.01
3/6/2020		0.0005 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/5/2014	<0.01	
3/3/2015	<0.01	
3/19/2015	<0.01	
4/7/2015	<0.01	
4/24/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
7/14/2016	<0.01	
3/21/2017	<0.01	
9/20/2017	0.0006 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/9/2019		<0.01
3/4/2020		0.00071 (J)

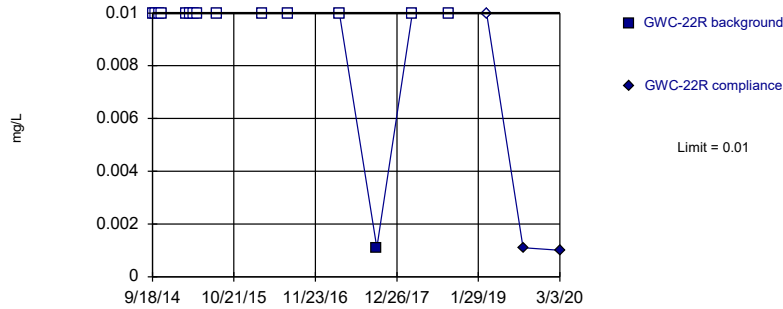
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	0.0013 (J)	
11/5/2014	0.0013 (J)	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/8/2015	0.0014 (J)	
4/24/2015	0.0014 (J)	
7/30/2015	<0.01	
3/8/2016	0.0261 (o)	
7/15/2016	0.0021 (J)	
3/21/2017	<0.01	
9/19/2017	0.0012 (J)	
3/14/2018	0.0014 (J)	
9/10/2018	0.002 (J)	
3/11/2019		<0.01
9/6/2019		0.0028 (J)
3/3/2020		0.00099 (J)

Within Limit

Prediction Limit
 Intrawell Non-parametric

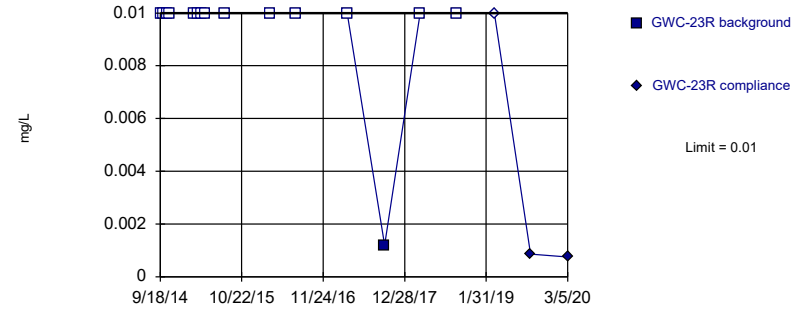


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

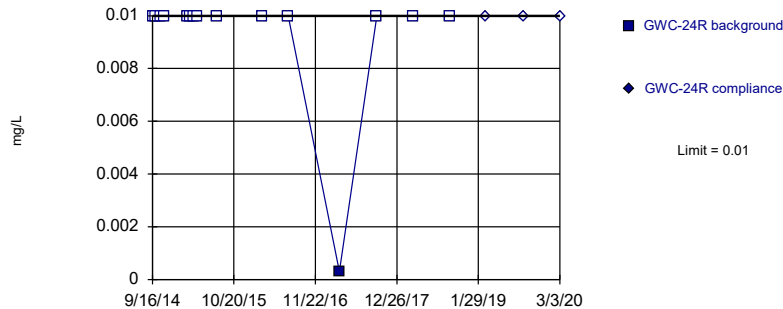


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

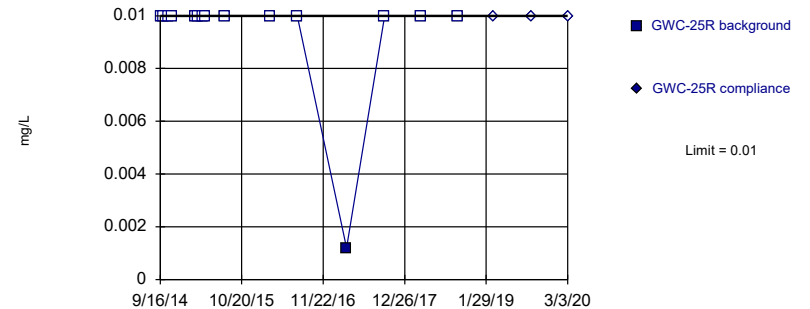


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	<0.01	
3/4/2015	<0.01	
3/19/2015	<0.01	
4/8/2015	<0.01	
4/24/2015	<0.01	
7/30/2015	<0.01	
3/7/2016	<0.01	
7/14/2016	<0.01	
3/20/2017	<0.01	
9/19/2017	0.0011 (J)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/5/2019		0.0011 (J)
3/3/2020		0.001 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	<0.01	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/9/2016	<0.01	
7/15/2016	<0.01	
3/22/2017	<0.01	
9/21/2017	0.0012 (J)	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.00086 (J)
3/5/2020		0.00075 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

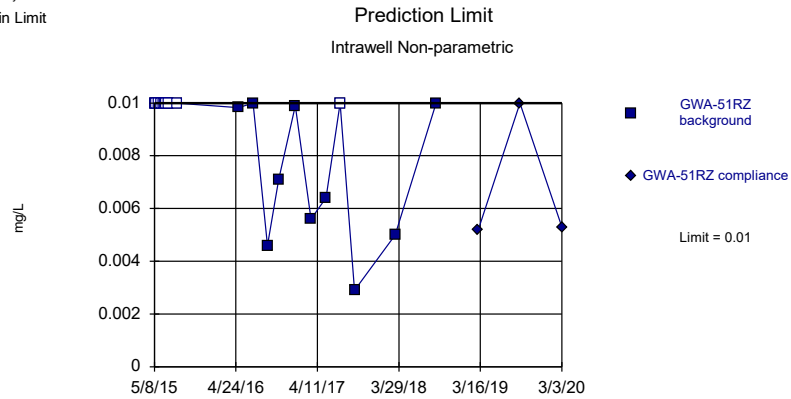
	GWC-24R	GWC-24R
9/16/2014	<0.01	
10/4/2014	<0.01	
10/23/2014	<0.01	
11/10/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	<0.01	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/4/2016	<0.01	
7/12/2016	<0.01	
3/20/2017	0.0003 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01 (D)
3/3/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.01	
10/4/2014	<0.01	
10/23/2014	<0.01	
11/10/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/9/2015	<0.01	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/8/2016	<0.01	
7/18/2016	<0.01	
3/16/2017	0.0012 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01
3/3/2020		<0.01

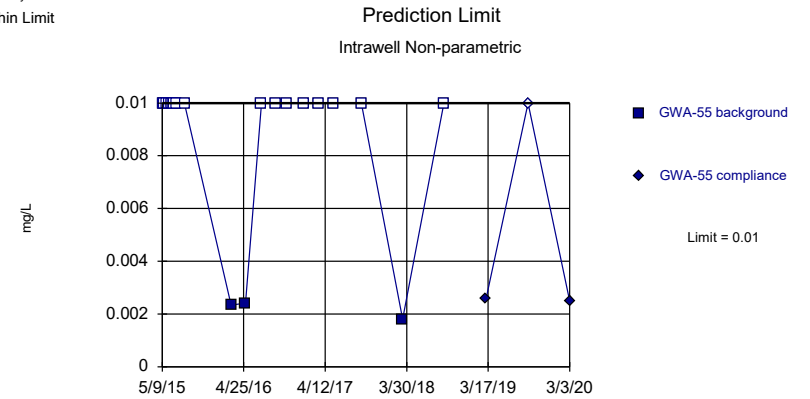
Within Limit



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 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

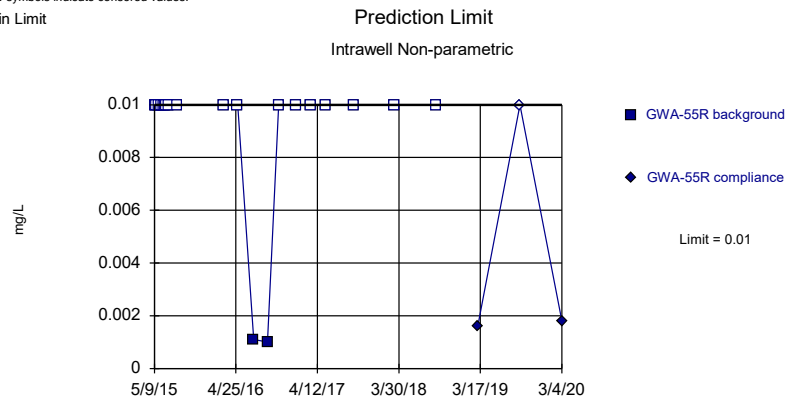
Within Limit



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: Selenium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

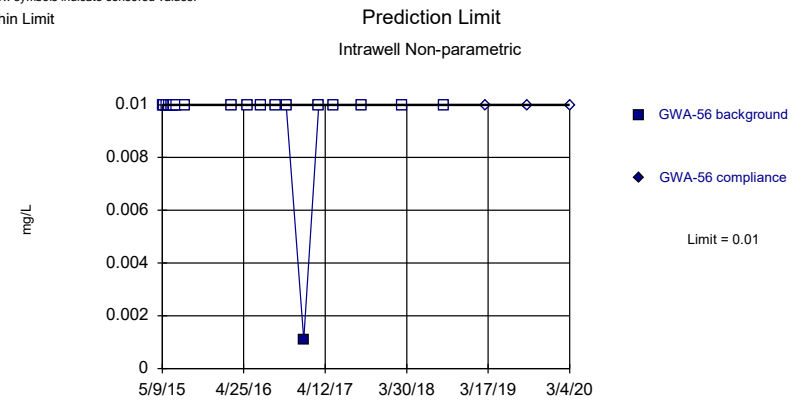
Within Limit



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: Selenium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit



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 Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	<0.01	
5/4/2016	0.00982 (JD)	
7/7/2016	0.01 (D)	
9/8/2016	0.0046 (JD)	
10/26/2016	0.0071 (JD)	
1/6/2017	0.0099 (JD)	
3/15/2017	0.0056 (JD)	
5/18/2017	0.0064 (JD)	
7/19/2017	<0.01 (D)	
9/19/2017	0.0029 (JD)	
3/13/2018	0.005 (J)	
9/7/2018	0.01	
3/8/2019		0.0052 (J)
9/4/2019		0.01
3/3/2020		0.0053 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.01	
5/18/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/2/2016	0.00234 (J)	
5/3/2016	0.00241 (J)	
7/11/2016	<0.01	
9/9/2016	<0.01	
10/26/2016	<0.01	
1/9/2017	<0.01	
3/16/2017	<0.01	
5/18/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	0.0018 (J)	
9/7/2018	<0.01	
3/8/2019		0.0026 (J)
9/5/2019		<0.01
3/3/2020		0.0025 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.01	
5/18/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
5/3/2016	<0.01	
7/11/2016	0.0011 (J)	
9/9/2016	0.001 (J)	
10/27/2016	<0.01	
1/9/2017	<0.01	
3/16/2017	<0.01	
5/18/2017	<0.01	
9/18/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		0.0016 (J)
9/5/2019		<0.01
3/4/2020		0.0018 (J)

Prediction Limit

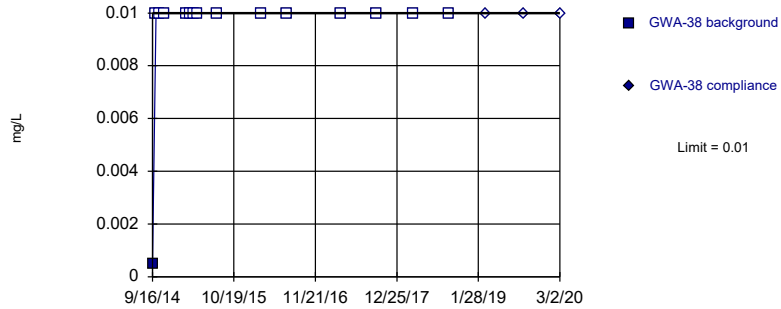
Constituent: Selenium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.01	
5/19/2015	<0.01	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	<0.01	
3/3/2016	<0.01	
5/9/2016	<0.01	
7/11/2016	<0.01	
9/9/2016	<0.01	
10/26/2016	<0.01	
1/9/2017	0.0011 (J)	
3/15/2017	<0.01	
5/18/2017	<0.01	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/4/2020		<0.01

Within Limit

Prediction Limit Intrawell Non-parametric

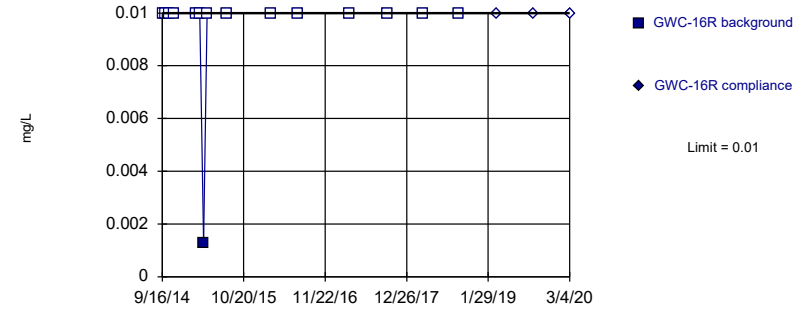


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

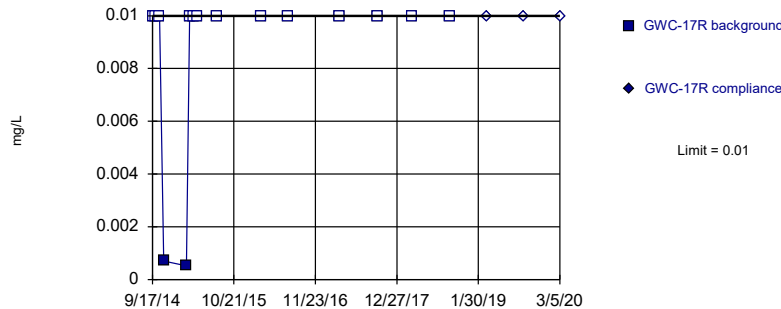


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

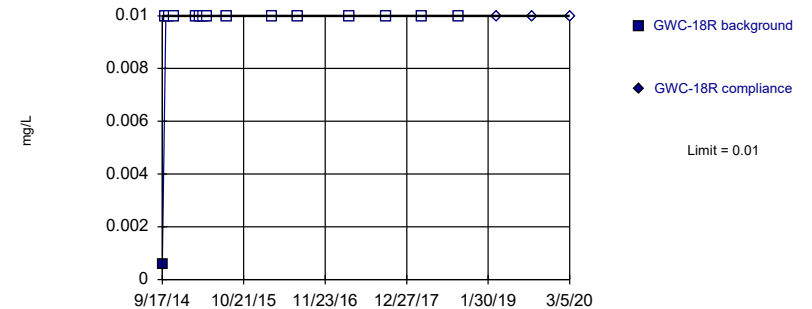


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.00051 (J)	
10/3/2014	<0.01	
10/20/2014	<0.01	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/6/2015	<0.01	
4/22/2015	<0.01	
7/28/2015	<0.01	
3/2/2016	<0.01	
7/7/2016	<0.01	
3/23/2017	<0.01	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01 (D)
3/2/2020		<0.01

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/11/2014	<0.01	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/6/2015	0.0013 (J)	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/3/2016	<0.01 (D)	
7/13/2016	<0.01	
3/20/2017	<0.01	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/9/2019		<0.01
3/4/2020		<0.01

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/11/2014	0.0007 (J)	
3/3/2015	0.00052 (J)	
3/18/2015	<0.01	
4/6/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/4/2016	<0.01	
7/14/2016	<0.01	
3/21/2017	<0.01	
9/22/2017	<0.01	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/10/2019		<0.01
3/5/2020		<0.01

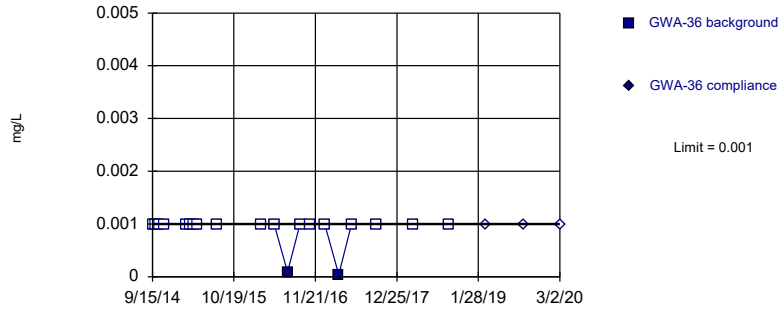
Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.00058 (J)	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/11/2014	<0.01	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/7/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
7/13/2016	<0.01	
3/20/2017	<0.01	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/12/2019		<0.01
9/6/2019		<0.01
3/5/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

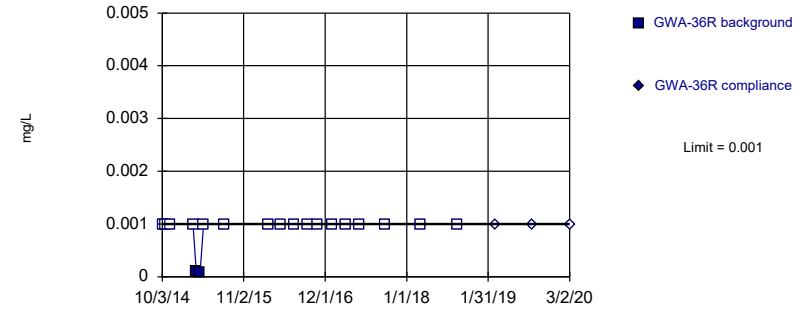


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

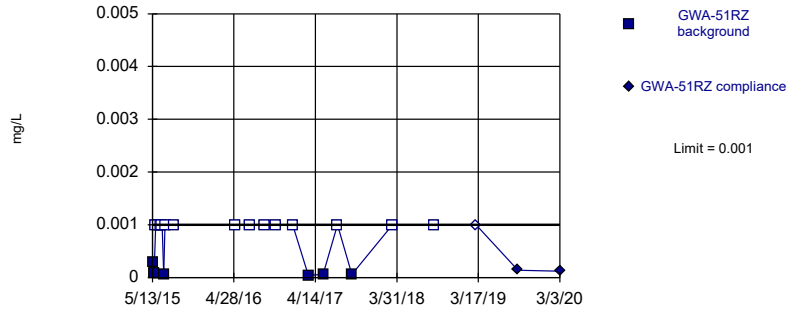


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

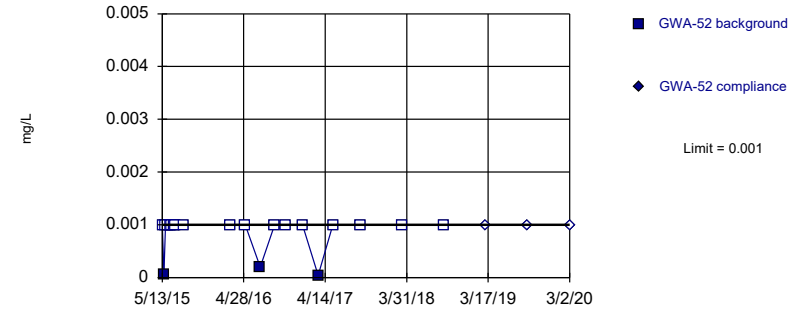


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	<0.001	
10/3/2014	<0.001	
10/20/2014	<0.001	
11/10/2014	<0.001	
3/2/2015	<0.001	
3/17/2015	<0.001	
4/5/2015	<0.001	
4/21/2015	<0.001	
7/28/2015	<0.001	
3/1/2016	<0.001	
5/2/2016	<0.001	
7/7/2016	9E-05 (J)	
9/7/2016	<0.001	
10/25/2016	<0.001	
1/5/2017	<0.001	
3/15/2017	4E-05 (J)	
5/17/2017	<0.001	
9/15/2017	<0.001	
3/12/2018	<0.001	
9/6/2018	<0.001	
3/6/2019		<0.001
9/4/2019		<0.001
3/2/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
10/3/2014	<0.001	
10/20/2014	<0.001	
11/10/2014	<0.001	
3/2/2015	<0.001	
3/17/2015	0.0001 (J)	
4/5/2015	7E-05 (J)	
4/21/2015	<0.001	
7/28/2015	<0.001	
3/1/2016	<0.001	
5/2/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/25/2016	<0.001	
1/5/2017	<0.001	
3/14/2017	<0.001	
5/16/2017	<0.001	
9/15/2017	<0.001	
3/12/2018	<0.001	
9/6/2018	<0.001	
3/7/2019		<0.001
9/4/2019		<0.001
3/2/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/13/2015	0.0003 (J)	
5/20/2015	9E-05 (J)	
5/27/2015	<0.001	
6/8/2015	<0.001	
6/18/2015	<0.001	
6/24/2015	<0.001	
6/30/2015	6E-05 (J)	
7/6/2015	<0.001	
8/12/2015	<0.001	
5/4/2016	<0.001 (D)	
7/7/2016	<0.001 (D)	
9/8/2016	<0.001 (D)	
10/26/2016	<0.001 (D)	
1/6/2017	<0.001 (D)	
3/15/2017	4E-05 (JD)	
5/18/2017	6E-05 (JD)	
7/19/2017	<0.001 (D)	
9/19/2017	6E-05 (JD)	
3/13/2018	<0.001	
9/7/2018	<0.001	
3/8/2019		<0.001
9/4/2019		0.00014 (J)
3/3/2020		0.00012 (J)

Prediction Limit

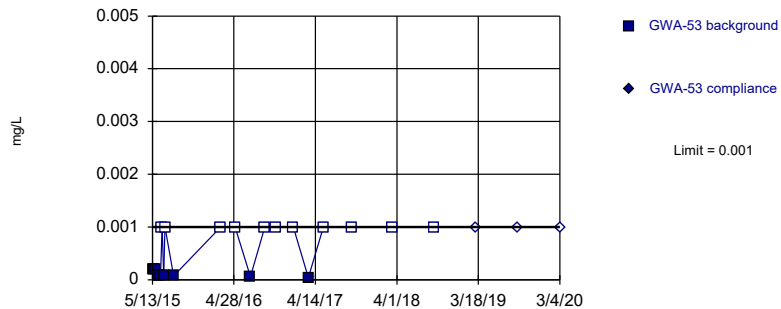
Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/13/2015	<0.001	
5/20/2015	6E-05 (J)	
5/27/2015	<0.001	
6/8/2015	<0.001	
6/18/2015	<0.001	
6/24/2015	<0.001	
6/30/2015	<0.001	
7/6/2015	<0.001	
8/12/2015	<0.001	
2/29/2016	<0.001	
5/4/2016	<0.001	
7/8/2016	0.0002 (J)	
9/8/2016	<0.001	
10/26/2016	<0.001	
1/6/2017	<0.001	
3/15/2017	4E-05 (J)	
5/17/2017	<0.001	
9/15/2017	<0.001	
3/13/2018	<0.001	
9/6/2018	<0.001	
3/7/2019		<0.001
9/4/2019		<0.001
3/2/2020		<0.001

Within Limit

Prediction Limit
Intrawell Non-parametric

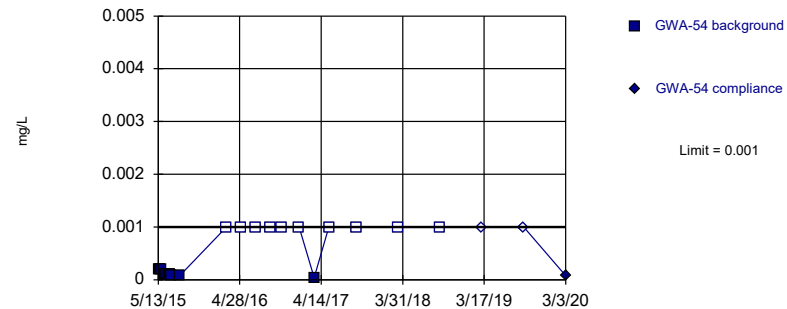


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

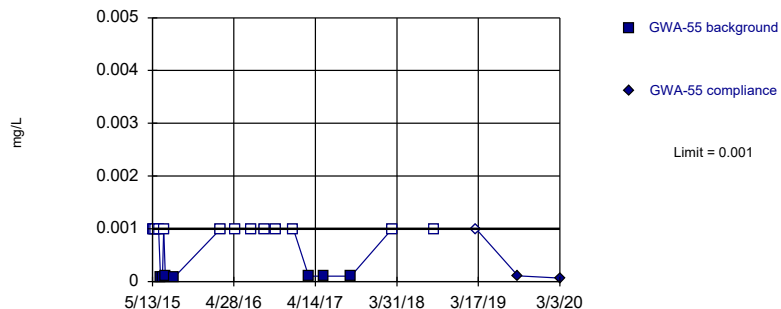


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

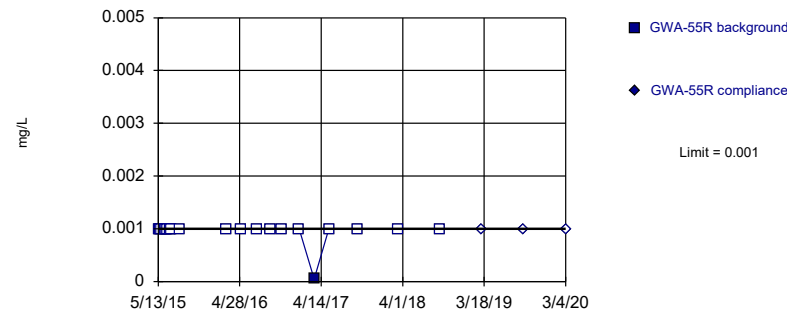


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/13/2015	0.0002 (J)	
5/20/2015	0.0002 (J)	
5/27/2015	0.0002 (J)	
6/8/2015	9E-05 (J)	
6/17/2015	7E-05 (J)	
6/24/2015	<0.001	
6/30/2015	9E-05 (J)	
7/6/2015	<0.001	
8/12/2015	7E-05 (J)	
3/2/2016	<0.001	
5/3/2016	<0.001	
7/8/2016	6E-05 (J)	
9/8/2016	<0.001	
10/26/2016	<0.001	
1/9/2017	<0.001	
3/16/2017	4E-05 (J)	
5/19/2017	<0.001	
9/19/2017	<0.001	
3/13/2018	<0.001	
9/11/2018	<0.001	
3/8/2019		<0.001
9/5/2019		<0.001
3/4/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/13/2015	0.0002 (J)	
5/20/2015	0.0002 (J)	
5/27/2015	0.0002 (J)	
6/9/2015	0.0001 (J)	
6/17/2015	0.0001 (J)	
6/25/2015	0.0001 (J)	
7/1/2015	0.0001 (J)	
7/7/2015	9E-05 (J)	
8/12/2015	7E-05 (J)	
3/2/2016	<0.001	
5/4/2016	<0.001	
7/8/2016	<0.001	
9/8/2016	<0.001	
10/26/2016	<0.001	
1/9/2017	<0.001	
3/15/2017	4E-05 (J)	
5/18/2017	<0.001	
9/15/2017	<0.001	
3/13/2018	<0.001	
9/6/2018	<0.001	
3/7/2019		<0.001
9/5/2019		<0.001
3/3/2020		7.9E-05 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/13/2015	<0.001	
5/20/2015	<0.001	
5/27/2015	<0.001	
6/9/2015	<0.001	
6/17/2015	8E-05 (J)	
6/25/2015	7E-05 (J)	
7/1/2015	<0.001	
7/7/2015	0.0001 (J)	
8/13/2015	8E-05 (J)	
3/2/2016	<0.001	
5/3/2016	<0.001	
7/11/2016	<0.001	
9/9/2016	<0.001	
10/26/2016	<0.001	
1/9/2017	<0.001	
3/16/2017	0.0001 (J)	
5/18/2017	0.0001 (J)	
9/15/2017	0.0001 (J)	
3/12/2018	<0.001	
9/7/2018	<0.001	
3/8/2019		<0.001
9/5/2019		0.00011 (J)
3/3/2020		6.5E-05 (J)

Prediction Limit

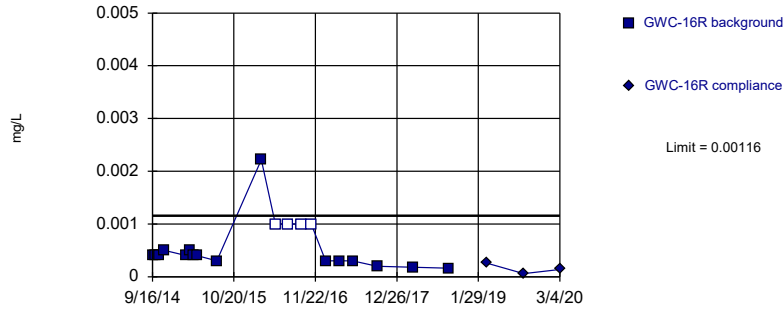
Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/13/2015	<0.001	
5/20/2015	<0.001	
5/27/2015	<0.001	
6/9/2015	<0.001	
6/17/2015	<0.001	
6/24/2015	<0.001	
7/1/2015	<0.001	
7/7/2015	<0.001	
8/13/2015	<0.001	
3/3/2016	<0.001	
5/3/2016	<0.001	
7/11/2016	<0.001	
9/9/2016	<0.001	
10/27/2016	<0.001	
1/9/2017	<0.001	
3/16/2017	5E-05 (J)	
5/18/2017	<0.001	
9/18/2017	<0.001	
3/12/2018	<0.001	
9/7/2018	<0.001	
3/7/2019		<0.001
9/5/2019		<0.001
3/4/2020		<0.001

Within Limit

Prediction Limit
Intrawell Parametric

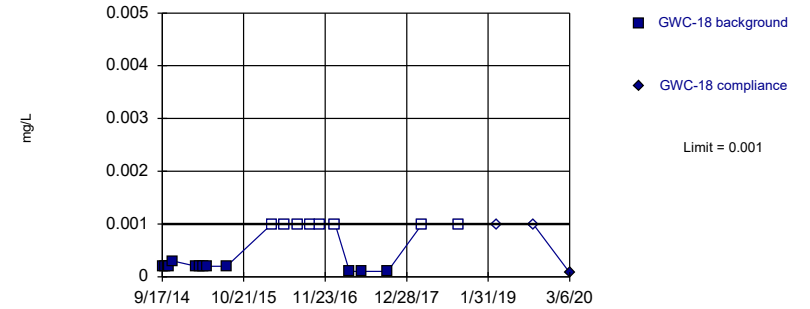


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.321, Std. Dev.=0.6089, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9187, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

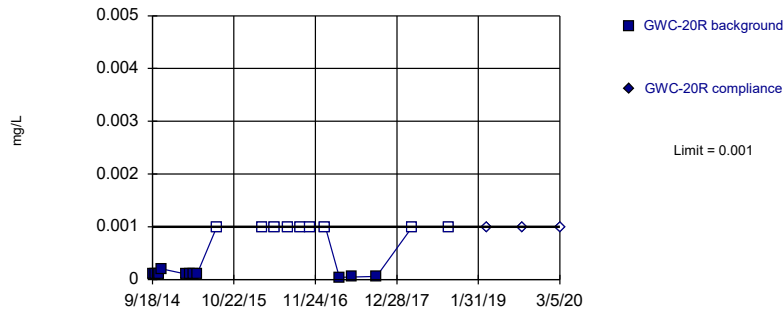


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

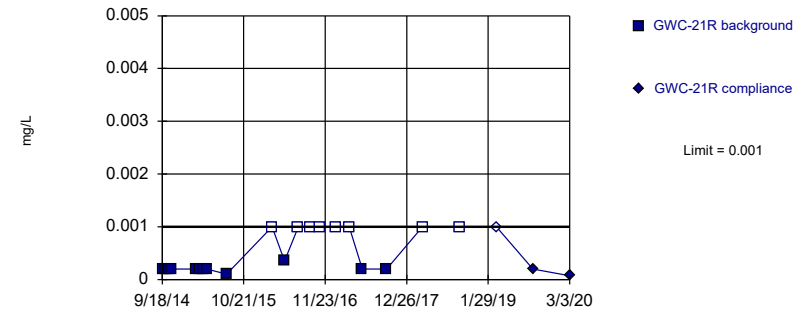


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.0004 (J)	
10/4/2014	0.0004 (J)	
10/21/2014	0.0004 (J)	
11/11/2014	0.0005 (J)	
3/3/2015	0.0004 (J)	
3/18/2015	0.0005 (J)	
4/6/2015	0.0004 (J)	
4/23/2015	0.0004 (J)	
7/29/2015	0.0003 (J)	
3/3/2016	0.002222 (D)	
5/10/2016	<0.001	
7/13/2016	<0.001	
9/15/2016	<0.001	
11/2/2016	<0.001	
1/11/2017	0.0003 (J)	
3/20/2017	0.0003 (J)	
5/23/2017	0.0003 (J)	
9/21/2017	0.0002 (J)	
3/14/2018	0.00018 (J)	
9/7/2018	0.00016 (J)	
3/11/2019		0.00026 (J)
9/9/2019		6E-05 (J)
3/4/2020		0.00014 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	0.0002 (J)	
10/4/2014	0.0002 (J)	
10/21/2014	0.0002 (J)	
11/5/2014	0.0003 (J)	
3/3/2015	0.0002 (J)	
3/18/2015	0.0002 (J)	
4/7/2015	0.0002 (J)	
4/23/2015	0.0002 (J)	
7/29/2015	0.0002 (J)	
3/7/2016	<0.001	
5/5/2016	<0.001	
7/13/2016	<0.001	
9/13/2016	<0.001	
10/31/2016	<0.001	
1/12/2017	<0.001	
3/23/2017	0.0001 (J)	
5/23/2017	0.0001 (J)	
9/25/2017	0.0001 (J)	
3/14/2018	<0.001	
9/11/2018	<0.001	
3/12/2019		<0.001
9/9/2019		<0.001
3/6/2020		7.6E-05 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	0.0001 (J)	
10/5/2014	0.0001 (J)	
10/22/2014	0.0001 (J)	
11/5/2014	0.0002 (J)	
3/4/2015	0.0001 (J)	
3/19/2015	0.0001 (J)	
4/7/2015	0.0001 (J)	
4/24/2015	0.0001 (J)	
7/30/2015	<0.001	
3/8/2016	<0.001	
5/9/2016	<0.001	
7/14/2016	<0.001	
9/12/2016	<0.001	
10/31/2016	<0.001	
1/12/2017	<0.001	
3/22/2017	4E-05 (J)	
5/22/2017	5E-05 (J)	
9/19/2017	6E-05 (J)	
3/14/2018	<0.001	
9/10/2018	<0.001	
3/12/2019		<0.001
9/6/2019		<0.001 (D)
3/5/2020		<0.001

Prediction Limit

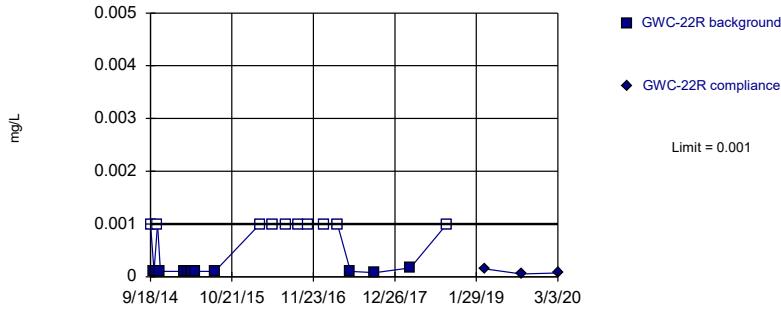
Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	0.0002 (J)	
10/5/2014	0.0002 (J)	
10/22/2014	0.0002 (J)	
11/5/2014	0.0002 (J)	
3/4/2015	0.0002 (J)	
3/19/2015	0.0002 (J)	
4/8/2015	0.0002 (J)	
4/24/2015	0.0002 (J)	
7/30/2015	0.0001 (J)	
3/8/2016	<0.001	
5/9/2016	0.000353 (J)	
7/15/2016	<0.001	
9/9/2016	<0.001	
10/27/2016	<0.001	
1/12/2017	<0.001	
3/21/2017	<0.001	
5/23/2017	0.0002 (J)	
9/19/2017	0.0002 (J)	
3/14/2018	<0.001	
9/10/2018	<0.001	
3/11/2019		<0.001
9/6/2019		0.0002 (J)
3/3/2020		7.1E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

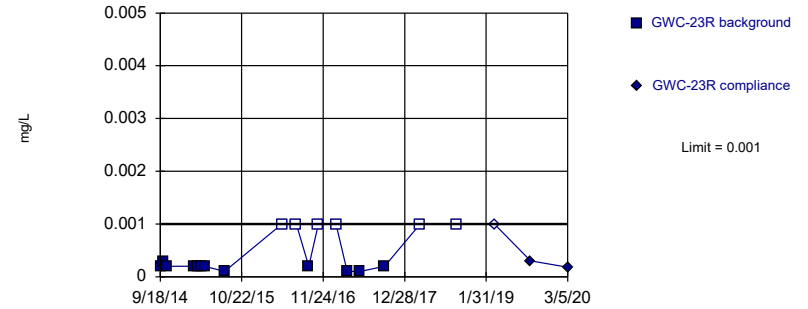


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

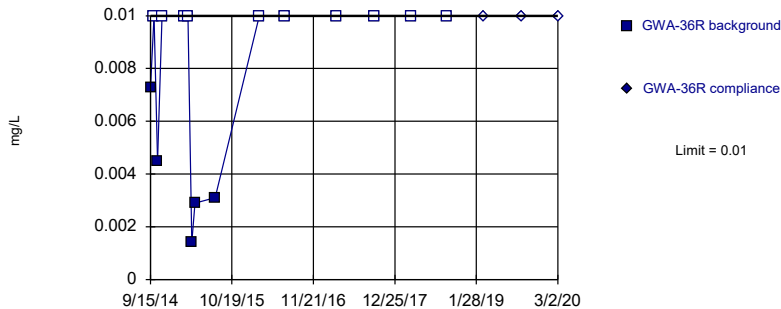


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Thallium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

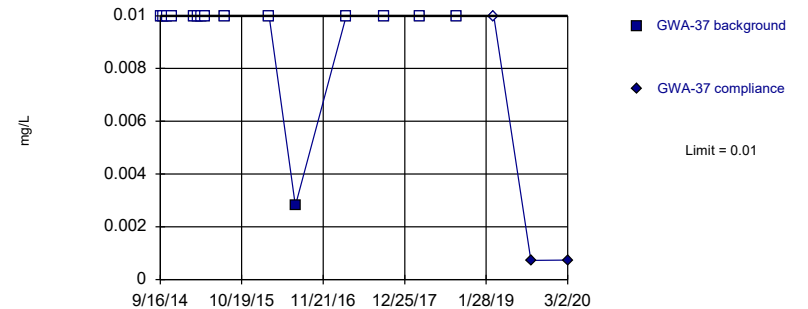


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.001	
10/5/2014	0.0001 (J)	
10/22/2014	<0.001	
11/5/2014	0.0001 (J)	
3/4/2015	0.0001 (J)	
3/19/2015	0.0001 (J)	
4/8/2015	0.0001 (J)	
4/24/2015	0.0001 (J)	
7/30/2015	0.0001 (J)	
3/7/2016	<0.001	
5/5/2016	<0.001	
7/14/2016	<0.001	
9/12/2016	<0.001	
10/27/2016	<0.001	
1/13/2017	<0.001	
3/20/2017	<0.001	
5/23/2017	0.0001 (J)	
9/19/2017	8E-05 (J)	
3/13/2018	0.00017 (J)	
9/7/2018	<0.001	
3/11/2019		0.00015 (J)
9/5/2019		5.5E-05 (J)
3/3/2020		7.2E-05 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	0.0002 (J)	
10/5/2014	0.0003 (J)	
10/22/2014	0.0002 (J)	
3/4/2015	0.0002 (J)	
3/20/2015	0.0002 (J)	
4/8/2015	0.0002 (J)	
4/23/2015	0.0002 (J)	
7/30/2015	0.0001 (J)	
3/9/2016	0.0033 (Jo)	
5/6/2016	<0.001	
7/15/2016	<0.001	
9/14/2016	0.0002 (J)	
11/1/2016	<0.001	
1/25/2017	<0.001	
3/22/2017	0.0001 (J)	
5/24/2017	0.0001 (J)	
9/21/2017	0.0002 (J)	
3/14/2018	<0.001	
9/11/2018	<0.001	
3/12/2019		<0.001
9/6/2019		0.0003 (J)
3/5/2020		0.00018 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

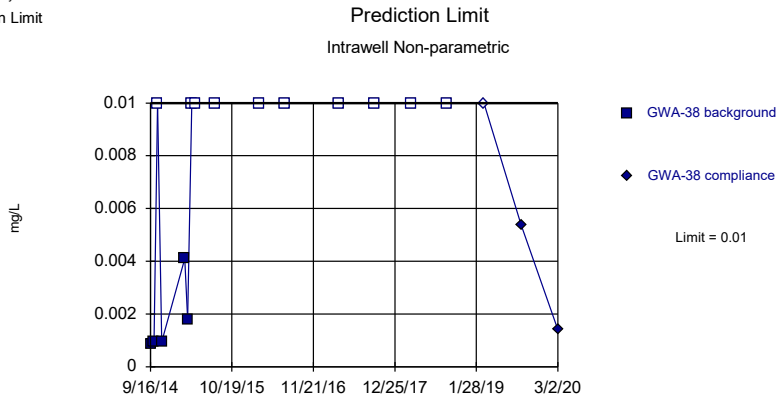
	GWA-36R	GWA-36R
9/15/2014	0.0073	
10/3/2014	<0.01	
10/20/2014	0.0045 (J)	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	0.0014 (J)	
4/21/2015	0.0029 (J)	
7/28/2015	0.0031 (J)	
3/1/2016	<0.01	
7/6/2016	<0.01	
3/14/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/2/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	<0.01	
10/3/2014	<0.01	
10/20/2014	<0.01	
11/10/2014	<0.01	
3/2/2015	<0.01	
3/17/2015	<0.01	
4/5/2015	<0.01	
4/22/2015	<0.01	
7/28/2015	<0.01	
3/1/2016	<0.01	
7/8/2016	0.0028 (J)	
3/14/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/6/2018	<0.01	
3/6/2019		<0.01
9/4/2019		0.00073 (J)
3/2/2020		0.00074 (J)

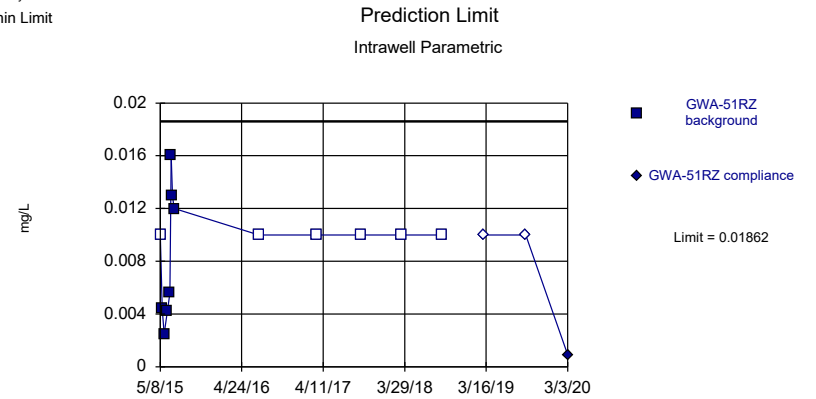
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

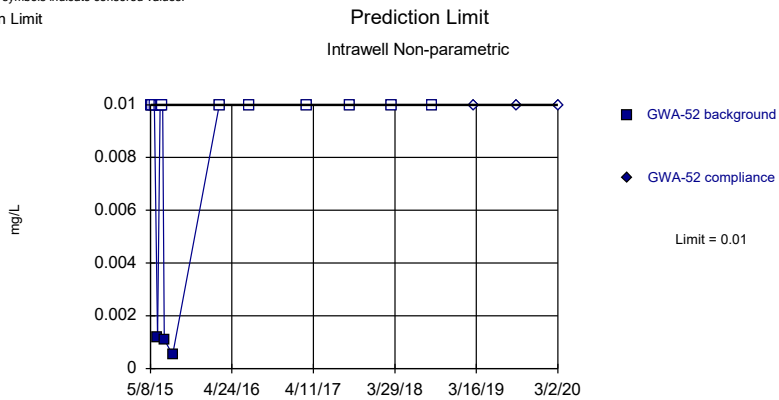
Within Limit



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006365, Std. Dev.=0.004195, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.814. Kappa = 2.92 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

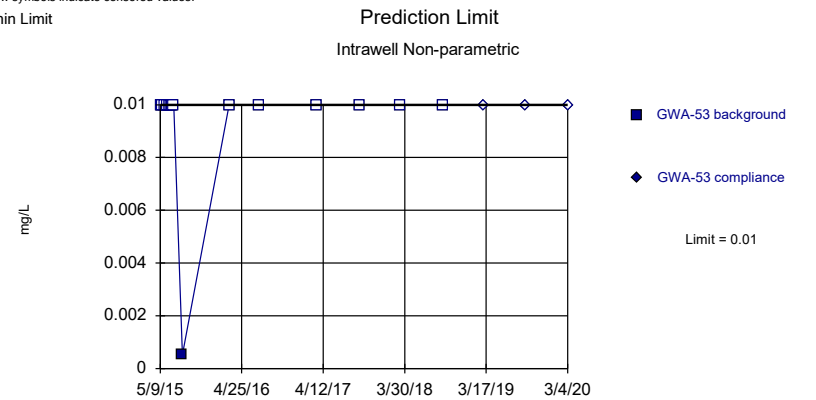
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
9/16/2014	0.00085 (J)	
10/3/2014	0.00096 (J)	
10/20/2014	<0.01	
11/10/2014	0.00095 (J)	
3/2/2015	0.0041 (J)	
3/17/2015	0.0018 (J)	
4/6/2015	<0.01	
4/22/2015	<0.01	
7/28/2015	<0.01	
3/2/2016	<0.01	
7/7/2016	<0.01	
3/23/2017	<0.01	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.00538 (D)
3/2/2020		0.0014 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.01	
5/17/2015	0.0044 (J)	
5/25/2015	0.0025 (J)	
6/8/2015	0.0042 (J)	
6/18/2015	0.0056	
6/24/2015	0.016	
6/30/2015	0.013	
7/6/2015	0.012	
7/7/2016	<0.01 (D)	
3/15/2017	<0.01 (D)	
9/19/2017	<0.01 (D)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/4/2019		<0.01
3/3/2020		0.00091 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	0.0012 (J)	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	0.0011 (J)	
8/12/2015	0.000519 (J)	
2/29/2016	<0.01	
7/8/2016	<0.01	
3/15/2017	<0.01	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/2/2020		<0.01

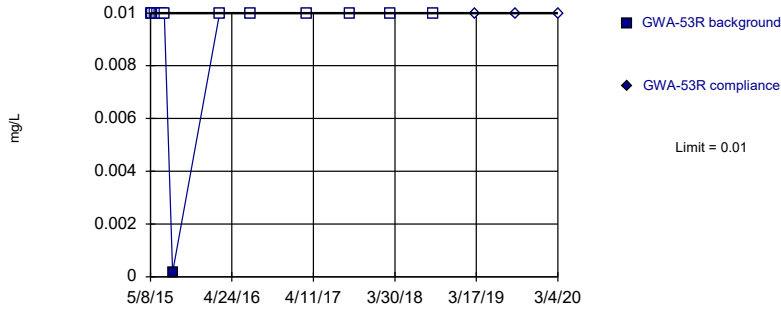
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	<0.01	
5/18/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/17/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	0.000525 (J)	
3/2/2016	<0.01	
7/8/2016	<0.01	
3/16/2017	<0.01	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01
3/4/2020		<0.01

Within Limit

Prediction Limit Intrawell Non-parametric

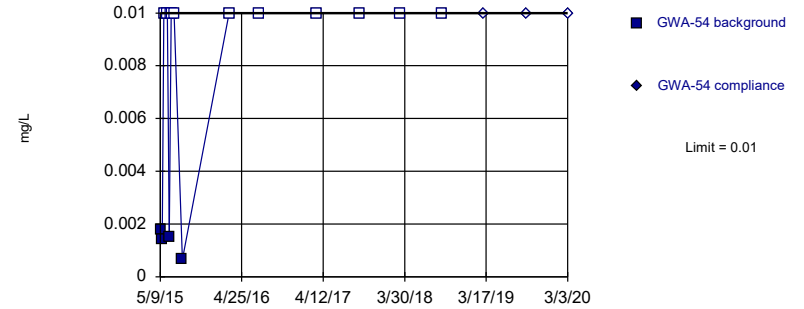


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

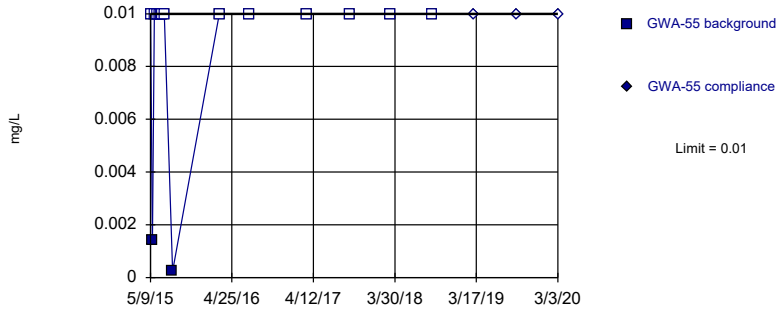


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

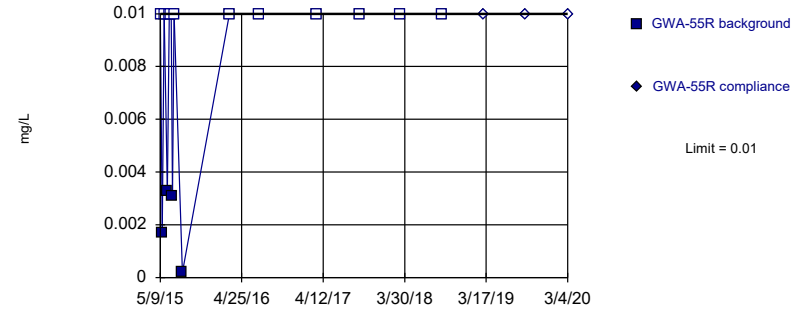


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.01	
5/17/2015	<0.01	
5/25/2015	<0.01	
6/8/2015	<0.01	
6/18/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	0.000172 (J)	
3/2/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	<0.01	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/5/2019		<0.01
3/4/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	0.0018 (J)	
5/18/2015	0.0014 (J)	
5/25/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	0.0015 (J)	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/12/2015	0.000656 (J)	
3/2/2016	<0.01	
7/8/2016	<0.01	
3/15/2017	<0.01	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/5/2019		<0.01
3/3/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.01	
5/18/2015	0.0014 (J)	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/12/2015	0.000246 (J)	
3/2/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	<0.01	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/5/2019		<0.01
3/3/2020		<0.01

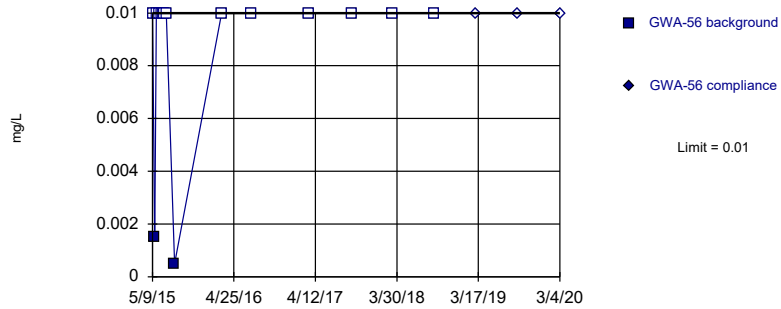
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.01	
5/18/2015	0.0017 (J)	
5/26/2015	<0.01	
6/9/2015	0.0033 (J)	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	0.0031 (J)	
7/7/2015	<0.01	
8/12/2015	0.000187 (J)	
3/3/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	<0.01	
9/18/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/5/2019		<0.01
3/4/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

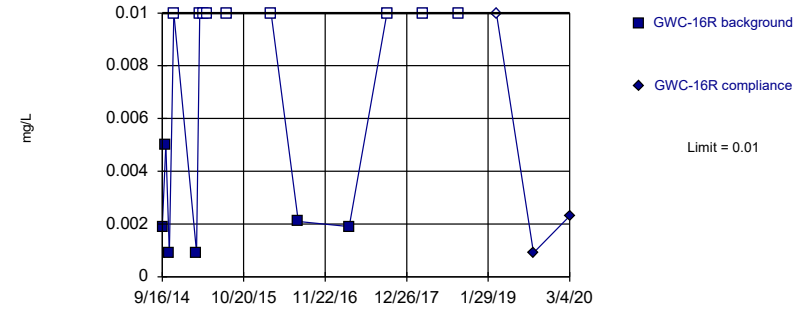


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:15 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

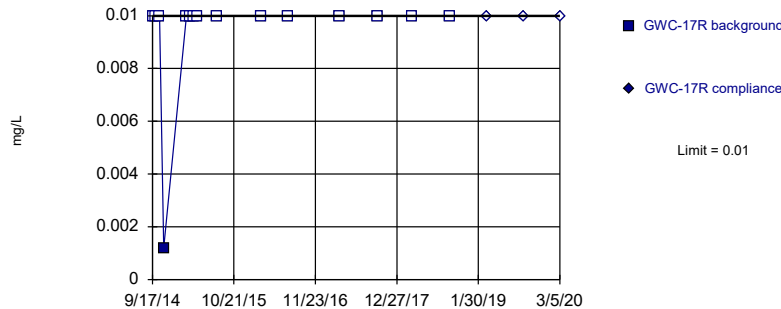


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

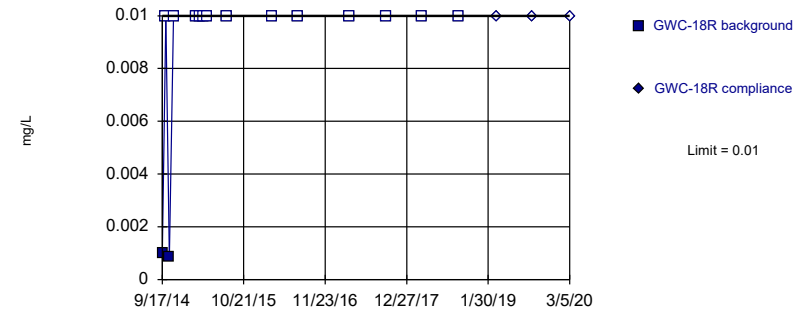


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.01	
5/19/2015	0.0015 (J)	
5/26/2015	<0.01	
6/9/2015	<0.01	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/12/2015	0.000497 (J)	
3/3/2016	<0.01	
7/11/2016	<0.01	
3/15/2017	<0.01	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/4/2019		<0.01
3/4/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.0019 (J)	
10/4/2014	0.005	
10/21/2014	0.00089 (J)	
11/11/2014	<0.01	
3/3/2015	0.00093 (J)	
3/18/2015	<0.01	
4/6/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/3/2016	<0.01 (D)	
7/13/2016	0.0021 (J)	
3/20/2017	0.0019 (J)	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/9/2019		0.00091 (J)
3/4/2020		0.0023 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/11/2014	0.0012 (J)	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/6/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/4/2016	<0.01	
7/14/2016	<0.01	
3/21/2017	<0.01	
9/22/2017	<0.01	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/10/2019		<0.01
3/5/2020		<0.01

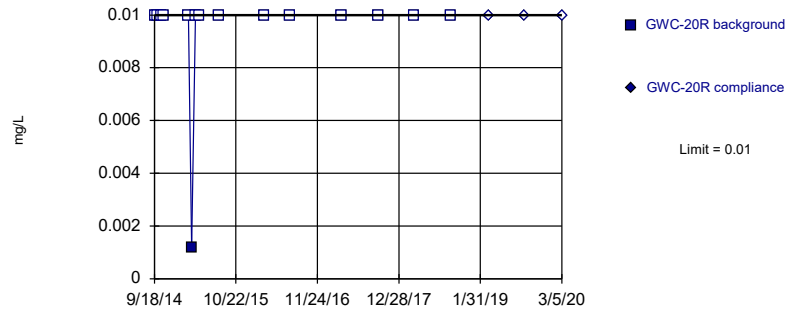
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.001 (J)	
10/4/2014	<0.01	
10/21/2014	0.00084 (J)	
11/11/2014	<0.01	
3/3/2015	<0.01	
3/18/2015	<0.01	
4/7/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
7/13/2016	<0.01	
3/20/2017	<0.01	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/12/2019		<0.01
9/6/2019		<0.01
3/5/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

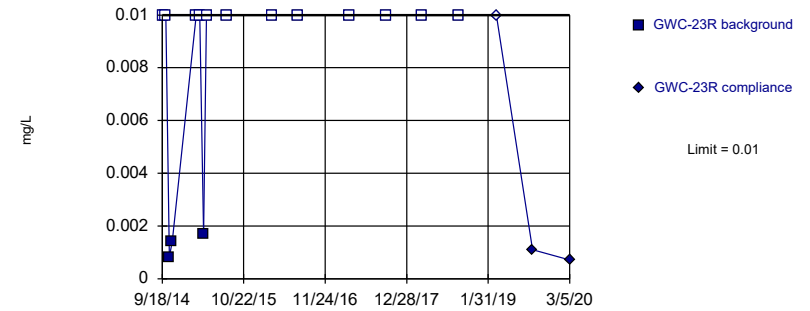


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

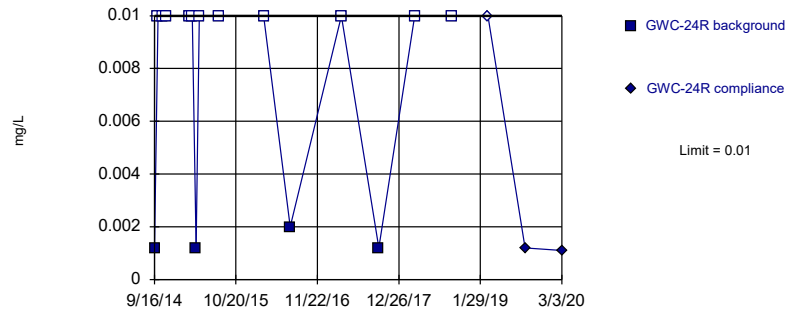


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

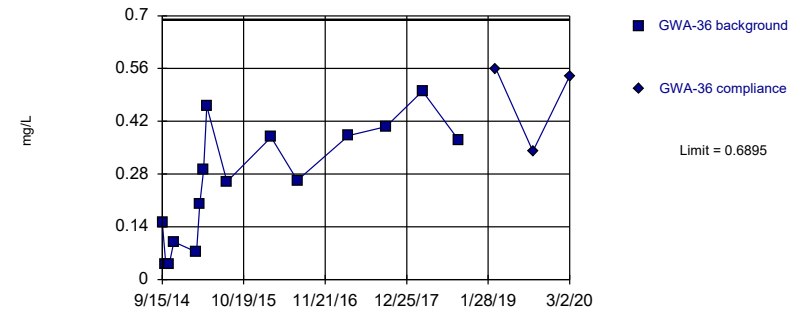


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.2609, Std. Dev.=0.1542, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	<0.01	
11/5/2014	<0.01	
3/4/2015	<0.01	
3/19/2015	0.0012 (J)	
4/7/2015	<0.01	
4/24/2015	<0.01	
7/30/2015	<0.01	
3/8/2016	<0.01	
7/14/2016	<0.01	
3/22/2017	<0.01	
9/19/2017	<0.01	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/6/2019		<0.01 (D)
3/5/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.01	
10/5/2014	<0.01	
10/22/2014	0.00083 (J)	
11/5/2014	0.0014 (J)	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	0.0017 (J)	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/9/2016	<0.01	
7/15/2016	<0.01	
3/22/2017	<0.01	
9/21/2017	<0.01	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.0011 (J)
3/5/2020		0.00071 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	0.0012 (J)	
10/4/2014	<0.01	
10/23/2014	<0.01	
11/10/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	0.0012 (J)	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/4/2016	<0.01	
7/12/2016	0.002 (J)	
3/20/2017	<0.01	
9/19/2017	0.0012 (J)	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.0012 (JD)
3/3/2020		0.0011 (J)

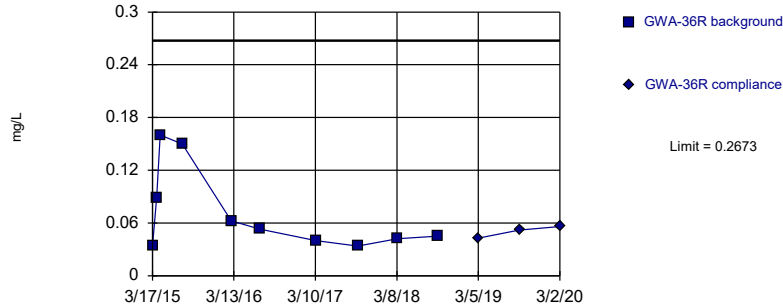
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
9/15/2014	0.15	
10/3/2014	0.04	
10/20/2014	0.042	
11/10/2014	0.1	
3/2/2015	0.073	
3/17/2015	0.2	
4/5/2015	0.29	
4/21/2015	0.46	
7/28/2015	0.26	
3/1/2016	0.378	
7/7/2016	0.263	
3/15/2017	0.382	
9/15/2017	0.406	
3/12/2018	0.5	
9/6/2018	0.37	
3/6/2019		0.56
9/4/2019		0.34
3/2/2020		0.54

Within Limit

Prediction Limit
Intrawell Parametric

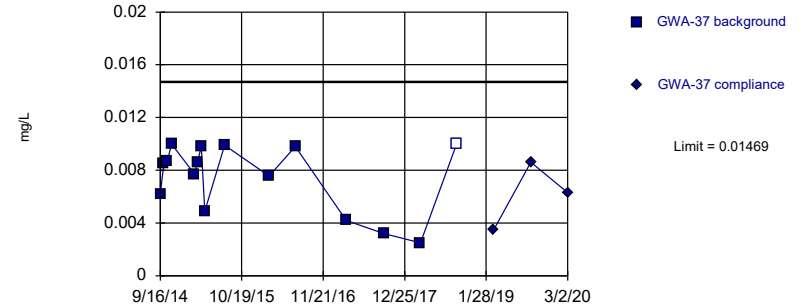


Background Data Summary (based on square root transformation): Mean=0.2552, Std. Dev.=0.08056, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8146, critical = 0.781. Kappa = 3.25 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

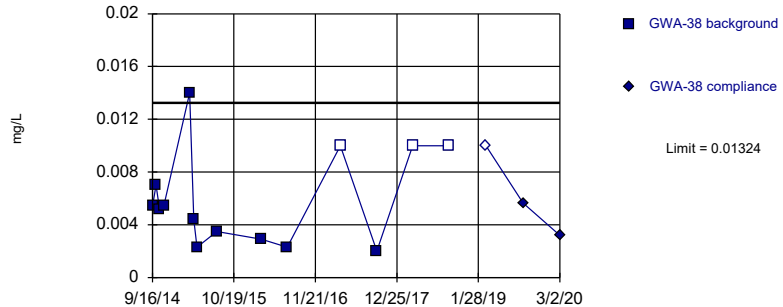


Background Data Summary: Mean=0.007437, Std. Dev.=0.002609, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.865, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.44 (o)	
10/3/2014	0.021	
10/20/2014	0.19	
11/10/2014	0.0014 (J)	
3/2/2015	0.032	
3/17/2015	0.034	
4/5/2015	0.089	
4/21/2015	0.16	
7/28/2015	0.15	
3/1/2016	0.0627	
7/6/2016	0.0532	
3/14/2017	0.0401	
9/15/2017	0.0338	
3/12/2018	0.042	
9/6/2018	0.045	
3/7/2019		0.043
9/4/2019		0.052
3/2/2020		0.056

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
9/16/2014	0.0062	
10/3/2014	0.0085	
10/20/2014	0.0087	
11/10/2014	0.01	
3/2/2015	0.0077	
3/17/2015	0.0086	
4/5/2015	0.0098	
4/22/2015	0.0049	
7/28/2015	0.0099	
3/1/2016	0.00756 (J)	
7/8/2016	0.0098 (J)	
3/14/2017	0.0042 (J)	
9/15/2017	0.0032 (J)	
3/12/2018	0.0025 (J)	
9/6/2018	<0.01	
3/6/2019		0.0035 (J)
9/4/2019		0.0086 (J)
3/2/2020		0.0063 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

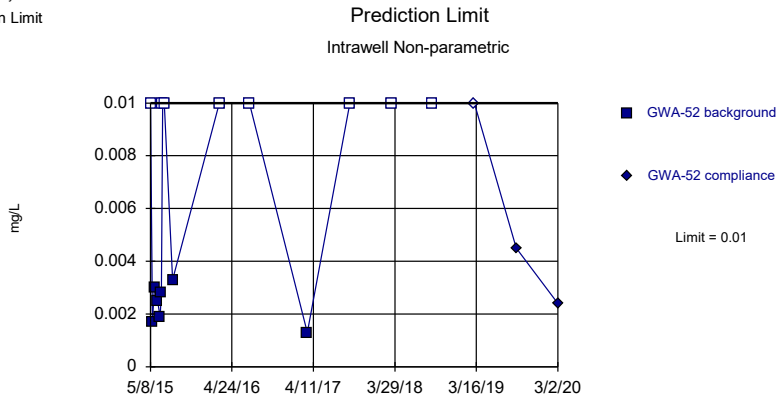
	GWA-38	GWA-38
9/16/2014	0.0054	
10/3/2014	0.007	
10/20/2014	0.0052	
11/10/2014	0.0054	
3/17/2015	0.014	
4/6/2015	0.0044	
4/22/2015	0.0023 (J)	
7/28/2015	0.0035	
3/2/2016	0.0029 (J)	
7/7/2016	0.0023 (J)	
3/23/2017	<0.01	
9/19/2017	0.002 (J)	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.00565 (JD)
3/2/2020		0.0032 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	0.015	
5/25/2015	0.023	
6/8/2015	0.016	
6/18/2015	0.016	
6/24/2015	0.022	
6/30/2015	0.017	
7/6/2015	0.01	
8/12/2015	0.0047 (BJ)	
7/7/2016	0.0073 (JD)	
3/15/2017	<0.01 (D)	
9/19/2017	<0.01 (D)	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/4/2019		0.0051 (J)
3/3/2020		0.0035 (J)

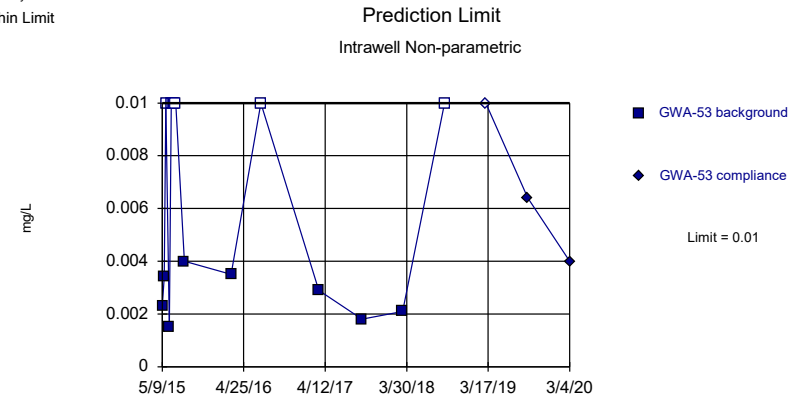
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

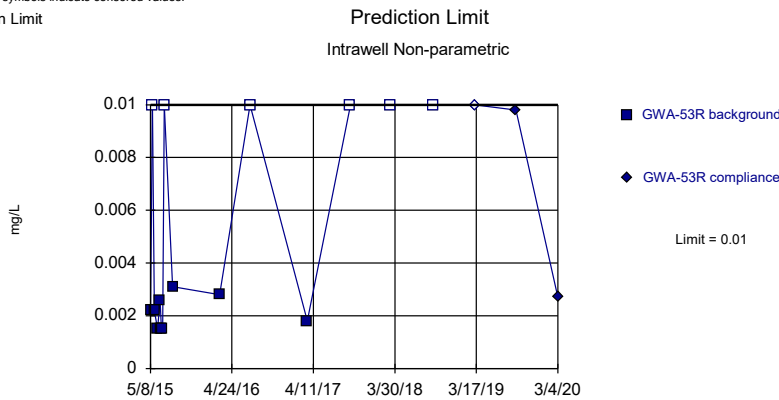
Within Limit



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 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

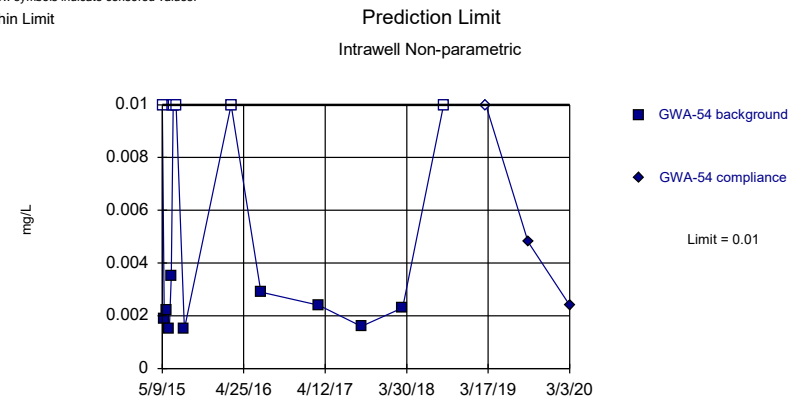
Within Limit



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 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit



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 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
5/8/2015	<0.01	
5/17/2015	0.0017 (J)	
5/25/2015	0.003	
6/8/2015	0.0025	
6/18/2015	0.0019 (J)	
6/24/2015	0.0028	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	0.0033 (BJ)	
2/29/2016	<0.01	
7/8/2016	<0.01	
3/15/2017	0.0013 (J)	
9/15/2017	<0.01	
3/13/2018	<0.01	
9/6/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.0045 (J)
3/2/2020		0.0024 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
5/9/2015	0.0023 (J)	
5/18/2015	0.0034	
5/25/2015	<0.01	
6/8/2015	0.0015 (J)	
6/17/2015	<0.01	
6/24/2015	<0.01	
6/30/2015	<0.01	
7/6/2015	<0.01	
8/12/2015	0.004 (BJ)	
3/2/2016	0.0035 (J)	
7/8/2016	<0.01	
3/16/2017	0.0029 (J)	
9/19/2017	0.0018 (J)	
3/13/2018	0.0021 (J)	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.0064 (J)
3/4/2020		0.004 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

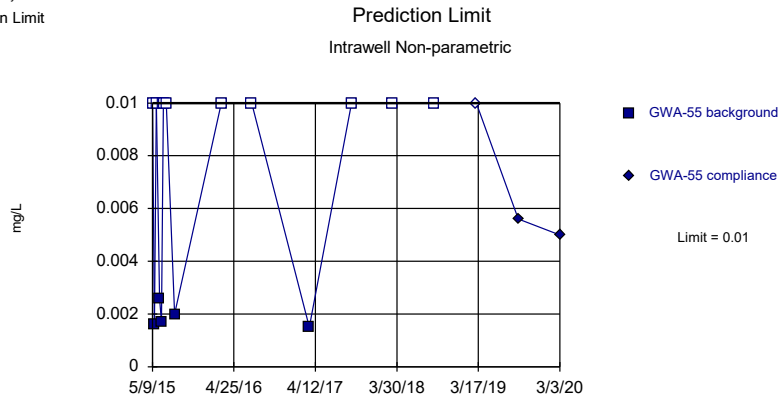
	GWA-53R	GWA-53R
5/8/2015	0.0022 (J)	
5/17/2015	<0.01	
5/25/2015	0.0022 (J)	
6/8/2015	0.0015 (J)	
6/18/2015	0.0026	
6/24/2015	0.0015 (J)	
6/30/2015	0.0015 (J)	
7/6/2015	<0.01	
8/12/2015	0.0031 (BJ)	
3/2/2016	0.0028 (J)	
7/11/2016	<0.01	
3/16/2017	0.0018 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/5/2019		0.0098 (J)
3/4/2020		0.0027 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
5/9/2015	<0.01	
5/18/2015	0.0019 (J)	
5/25/2015	0.0022 (J)	
6/9/2015	0.0015 (J)	
6/17/2015	0.0035	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/12/2015	0.0015 (BJ)	
3/2/2016	<0.01	
7/8/2016	0.0029 (J)	
3/15/2017	0.0024 (J)	
9/15/2017	0.0016 (J)	
3/13/2018	0.0023 (J)	
9/6/2018	<0.01	
3/7/2019		<0.01
9/5/2019		0.0048 (J)
3/3/2020		0.0024 (J)

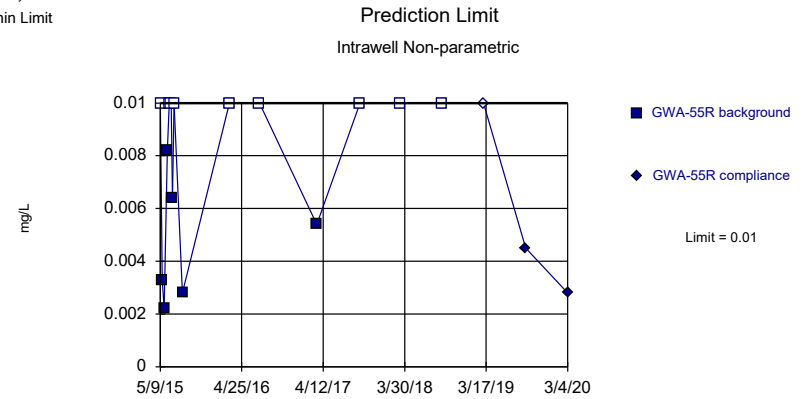
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

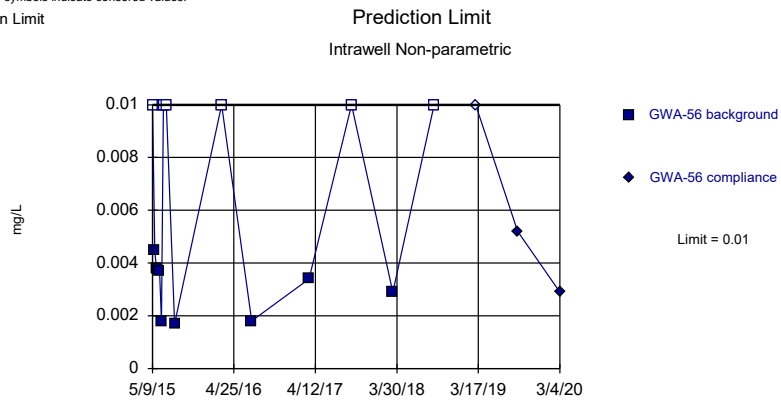
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

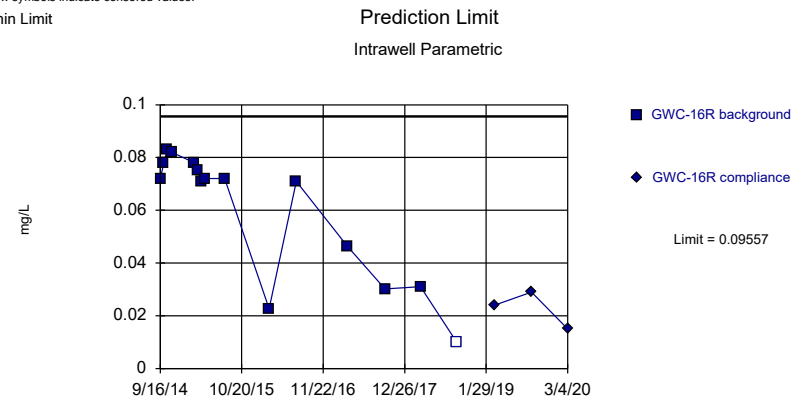
Within Limit



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 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit



Background Data Summary (based on cube transformation): Mean=0.0002999, Std. Dev.=0.0002062, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8545, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
5/9/2015	<0.01	
5/18/2015	0.0016 (J)	
5/26/2015	<0.01	
6/9/2015	0.0026	
6/17/2015	0.0017 (J)	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	0.002 (BJ)	
3/2/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	0.0015 (J)	
9/15/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.0056 (J)
3/3/2020		0.005 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.01	
5/18/2015	0.0033	
5/26/2015	0.0022 (J)	
6/9/2015	0.0082	
6/17/2015	<0.01	
6/25/2015	<0.01	
7/1/2015	0.0064	
7/7/2015	<0.01	
8/13/2015	0.0028 (BJ)	
3/3/2016	<0.01	
7/11/2016	<0.01	
3/16/2017	0.0054 (J)	
9/18/2017	<0.01	
3/12/2018	<0.01	
9/7/2018	<0.01	
3/7/2019		<0.01
9/5/2019		0.0045 (J)
3/4/2020		0.0028 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
5/9/2015	<0.01	
5/19/2015	0.0045	
5/26/2015	0.0038	
6/9/2015	0.0037	
6/17/2015	0.0018 (J)	
6/25/2015	<0.01	
7/1/2015	<0.01	
7/7/2015	<0.01	
8/13/2015	0.0017 (BJ)	
3/3/2016	<0.01	
7/11/2016	0.0018 (J)	
3/15/2017	0.0034 (J)	
9/15/2017	<0.01	
3/13/2018	0.0029 (J)	
9/7/2018	<0.01	
3/7/2019		<0.01
9/4/2019		0.0052 (J)
3/4/2020		0.0029 (J)

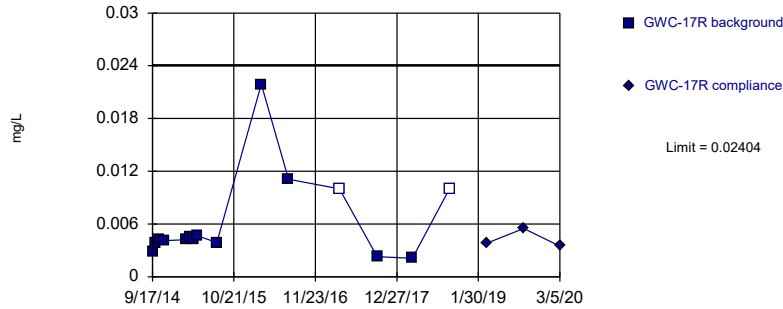
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
9/16/2014	0.072	
10/4/2014	0.078	
10/21/2014	0.083	
11/11/2014	0.082	
3/3/2015	0.078	
3/18/2015	0.075	
4/6/2015	0.071	
4/23/2015	0.072	
7/29/2015	0.072	
3/3/2016	0.0227 (D)	
7/13/2016	0.0709	
3/20/2017	0.0465	
9/21/2017	0.0302	
3/14/2018	0.031	
9/7/2018	<0.01	
3/11/2019		0.024
9/9/2019		0.029
3/4/2020		0.015

Within Limit

Prediction Limit
Intrawell Parametric

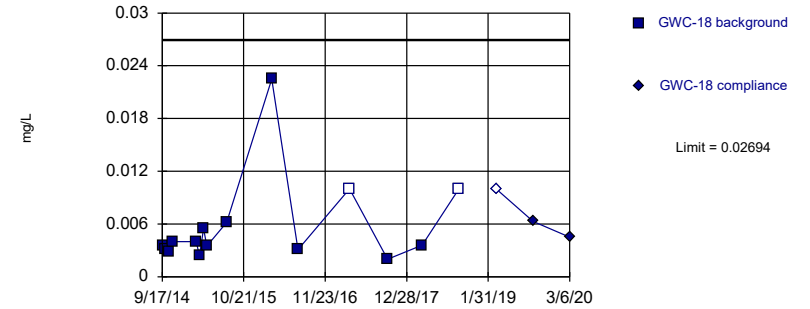


Background Data Summary (based on cube root transformation): Mean=0.1752, Std. Dev.=0.04079, n=15, 13.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8411, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

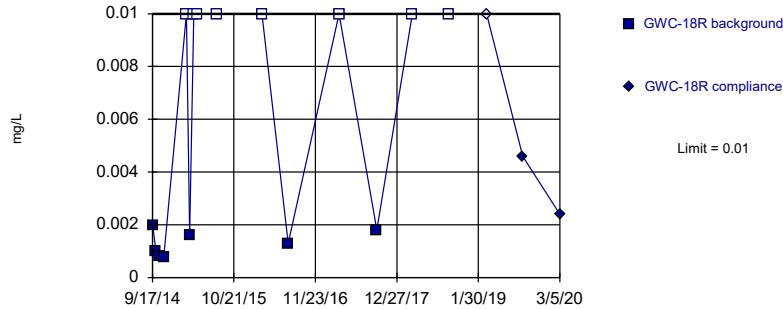


Background Data Summary (based on natural log transformation): Mean=-5.394, Std. Dev.=0.6405, n=15, 13.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8867, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

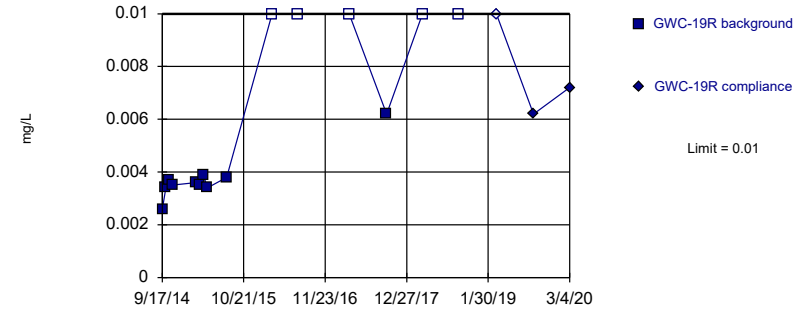


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
9/17/2014	0.0028	
10/4/2014	0.0038	
10/21/2014	0.0043	
11/11/2014	0.0041	
3/3/2015	0.0042	
3/18/2015	0.0046	
4/6/2015	0.0043	
4/23/2015	0.0047	
7/29/2015	0.0039	
3/4/2016	0.0219 (J)	
7/14/2016	0.0111	
3/21/2017	<0.01	
9/22/2017	0.0023 (J)	
3/14/2018	0.0021 (J)	
9/11/2018	<0.01	
3/12/2019		0.0038 (J)
9/10/2019		0.0055 (J)
3/5/2020		0.0035 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
9/17/2014	0.0035	
10/4/2014	0.0032	
10/21/2014	0.0028	
11/5/2014	0.004	
3/3/2015	0.004	
3/18/2015	0.0024 (J)	
4/7/2015	0.0055	
4/23/2015	0.0035	
7/29/2015	0.0062	
3/7/2016	0.0225 (J)	
7/13/2016	0.0031 (J)	
3/23/2017	<0.01	
9/25/2017	0.002 (J)	
3/14/2018	0.0036 (J)	
9/11/2018	<0.01	
3/12/2019		<0.01
9/9/2019		0.0063 (J)
3/6/2020		0.0045 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.002 (J)	
10/4/2014	0.001 (J)	
10/21/2014	0.00082 (J)	
11/11/2014	0.00076 (J)	
3/3/2015	<0.01	
3/18/2015	0.0016 (J)	
4/7/2015	<0.01	
4/23/2015	<0.01	
7/29/2015	<0.01	
3/7/2016	<0.01	
7/13/2016	0.0013 (J)	
3/20/2017	<0.01	
9/21/2017	0.0018 (J)	
3/14/2018	<0.01	
9/7/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.0046 (J)
3/5/2020		0.0024 (J)

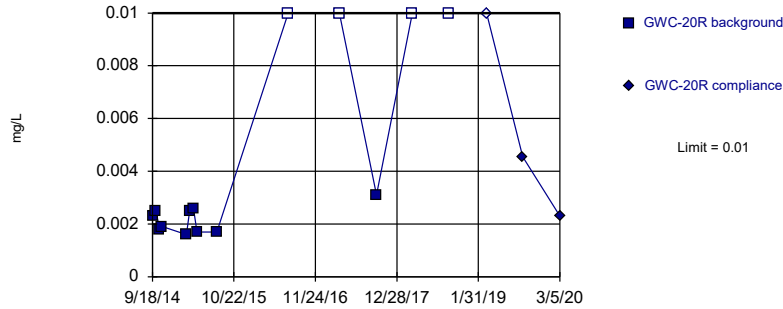
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
9/17/2014	0.0026	
10/4/2014	0.0034	
10/21/2014	0.0037	
11/5/2014	0.0035	
3/3/2015	0.0036	
3/19/2015	0.0035	
4/7/2015	0.0039	
4/24/2015	0.0034	
7/29/2015	0.0038	
3/7/2016	<0.01	
7/14/2016	<0.01	
3/21/2017	<0.01	
9/20/2017	0.0062 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/9/2019		0.0062 (J)
3/4/2020		0.0072 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

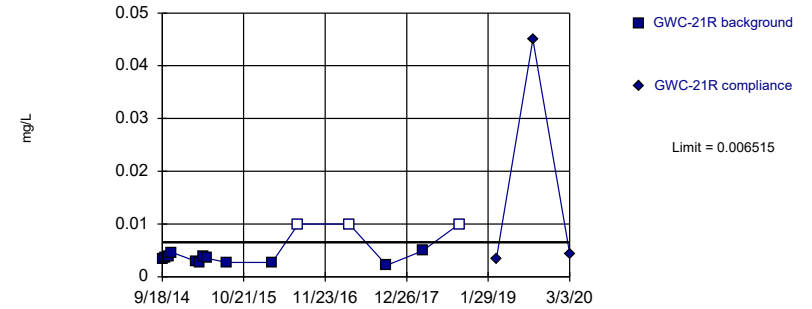


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

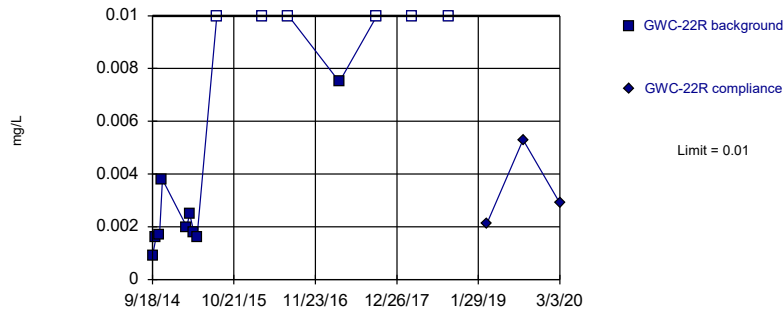


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.726, Std. Dev.=0.2492, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8434, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.002993). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

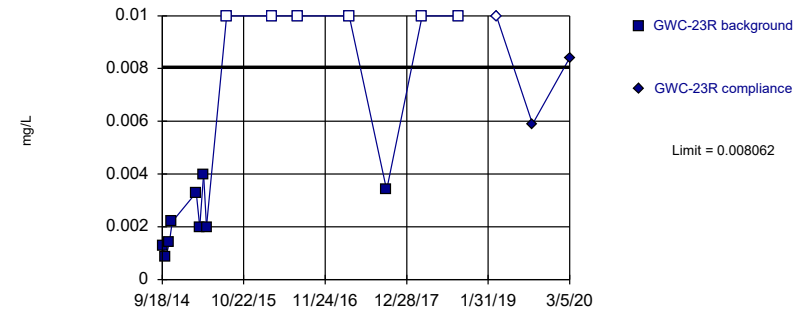


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.256, Std. Dev.=0.5164, n=15, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8588, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
9/18/2014	0.0023 (J)	
10/5/2014	0.0025	
10/22/2014	0.0018 (J)	
11/5/2014	0.0019 (J)	
3/4/2015	0.0016 (J)	
3/19/2015	0.0025	
4/7/2015	0.0026	
4/24/2015	0.0017 (J)	
7/30/2015	0.0017 (J)	
3/8/2016	0.557 (o)	
7/14/2016	<0.01	
3/22/2017	<0.01	
9/19/2017	0.0031 (J)	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.00455 (JD)
3/5/2020		0.0023 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
9/18/2014	0.0033	
10/5/2014	0.0036	
10/22/2014	0.0038	
11/5/2014	0.0046	
3/4/2015	0.0029	
3/19/2015	0.0027	
4/8/2015	0.0039	
4/24/2015	0.0035	
7/30/2015	0.0027	
3/8/2016	0.00273 (J)	
7/15/2016	<0.01	
3/21/2017	<0.01	
9/19/2017	0.0022 (J)	
3/14/2018	0.0049 (J)	
9/10/2018	<0.01	
3/11/2019		0.0034 (J)
9/6/2019		0.045
3/3/2020		0.0044 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
9/18/2014	0.00089 (J)	
10/5/2014	0.0016 (J)	
10/22/2014	0.0017 (J)	
11/5/2014	0.0038	
3/4/2015	0.002 (J)	
3/19/2015	0.0025	
4/8/2015	0.0018 (J)	
4/24/2015	0.0016 (J)	
7/30/2015	<0.01	
3/7/2016	<0.01	
7/14/2016	<0.01	
3/20/2017	0.0075 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		0.0021 (J)
9/5/2019		0.0053 (J)
3/3/2020		0.0029 (J)

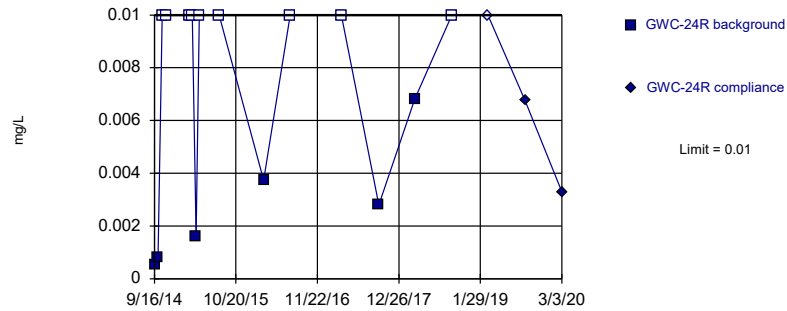
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
9/18/2014	0.0013 (J)	
10/5/2014	0.00085 (J)	
10/22/2014	0.0014 (J)	
11/5/2014	0.0022 (J)	
3/4/2015	0.0033	
3/20/2015	0.002 (J)	
4/8/2015	0.004	
4/23/2015	0.002 (J)	
7/30/2015	<0.01	
3/9/2016	<0.01	
7/15/2016	<0.01	
3/22/2017	<0.01	
9/21/2017	0.0034 (J)	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/6/2019		0.0059 (J)
3/5/2020		0.0084 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

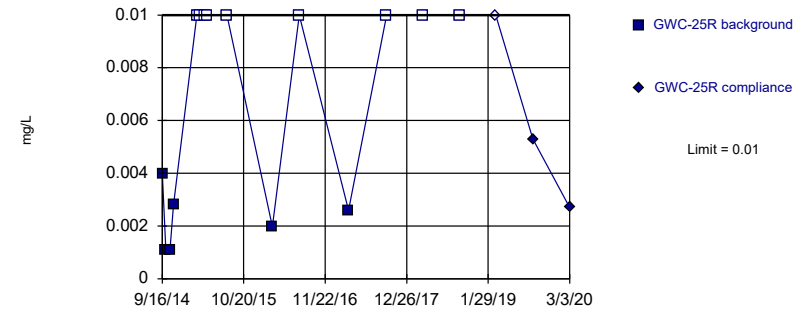


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/16/2020 10:16 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
9/16/2014	0.00054 (J)	
10/4/2014	0.0008 (J)	
10/23/2014	<0.01	
11/10/2014	<0.01	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/8/2015	0.0016 (J)	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/4/2016	0.00374 (J)	
7/12/2016	<0.01	
3/20/2017	<0.01	
9/19/2017	0.0028 (J)	
3/13/2018	0.0068 (J)	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.00675 (JD)
3/3/2020		0.0033 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/16/2020 10:20 AM View: Bedrock & Overburden
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
9/16/2014	0.004	
10/4/2014	0.0011 (J)	
10/23/2014	0.0011 (J)	
11/10/2014	0.0028	
3/4/2015	<0.01	
3/20/2015	<0.01	
4/9/2015	<0.01	
4/23/2015	<0.01	
7/30/2015	<0.01	
3/8/2016	0.00198 (J)	
7/18/2016	<0.01	
3/16/2017	0.0026 (J)	
9/19/2017	<0.01	
3/13/2018	<0.01	
9/11/2018	<0.01	
3/8/2019		<0.01
9/5/2019		0.0053 (J)
3/3/2020		0.0027 (J)

FIGURE E.

Trend Tests Summary Table - State Parameters - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:27 AM

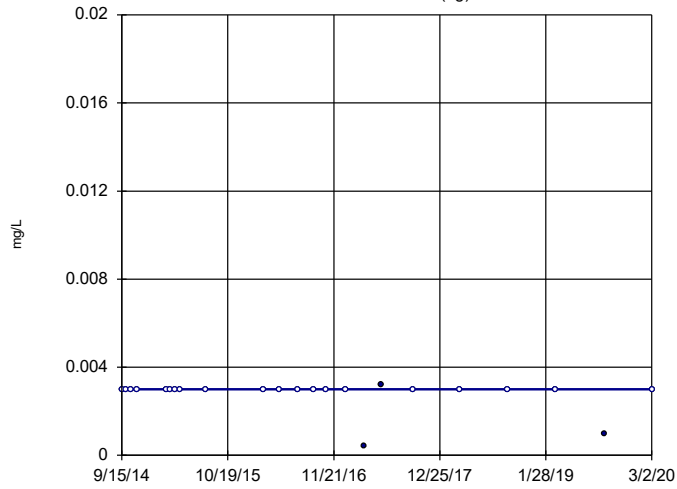
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	GWA-37 (bg)	-0.0006393	-120	-89	Yes	23	39.13	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36 (bg)	0.002034	153	89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-38 (bg)	-0.0006432	-124	-84	Yes	22	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-52 (bg)	-0.004457	-146	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53 (bg)	-0.003624	-180	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55R (bg)	-0.006343	-125	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-56 (bg)	0.004061	157	89	Yes	23	4.348	n/a	n/a	0.02	NP

Trend Tests Summary Table - State Parameters - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 10:27 AM

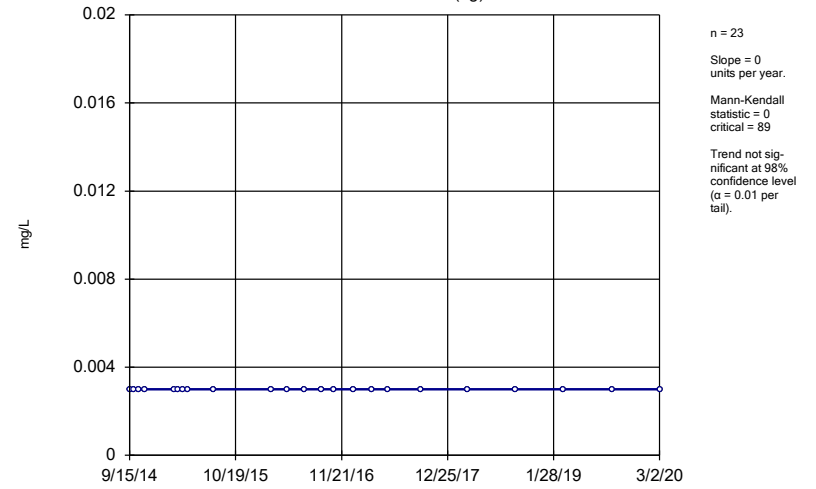
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	GWA-36 (bg)	0	-17	-89	No	23	86.96	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-36R (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-37 (bg)	-0.0006393	-120	-89	Yes	23	39.13	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-38 (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-51RZ (bg)	0	-39	-84	No	22	68.18	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-52 (bg)	0	0	89	No	23	100	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-53 (bg)	0	-53	-89	No	23	73.91	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-53R (bg)	0	-54	-89	No	23	52.17	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-54 (bg)	0	-41	-89	No	23	86.96	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-55 (bg)	0	4	89	No	23	95.65	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-55R (bg)	0	-26	-89	No	23	82.61	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-56 (bg)	0	-6	-89	No	23	95.65	n/a	n/a	0.02	NP
Antimony (mg/L)	GWC-16R	0.0001319	50	89	No	23	43.48	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36 (bg)	0.002034	153	89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-36R (bg)	0.0005147	46	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-37 (bg)	-0.0004011	-55	-89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-38 (bg)	-0.0006432	-124	-84	Yes	22	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-51RZ (bg)	0.002317	58	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-52 (bg)	-0.004457	-146	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53 (bg)	-0.003624	-180	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-53R (bg)	0.0002544	83	89	No	23	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-54 (bg)	-0.001785	-51	-89	No	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55 (bg)	-0.001184	-59	-89	No	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-55R (bg)	-0.006343	-125	-89	Yes	23	4.348	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-56 (bg)	0.004061	157	89	Yes	23	4.348	n/a	n/a	0.02	NP

Sen's Slope Estimator
GWA-36 (bg)



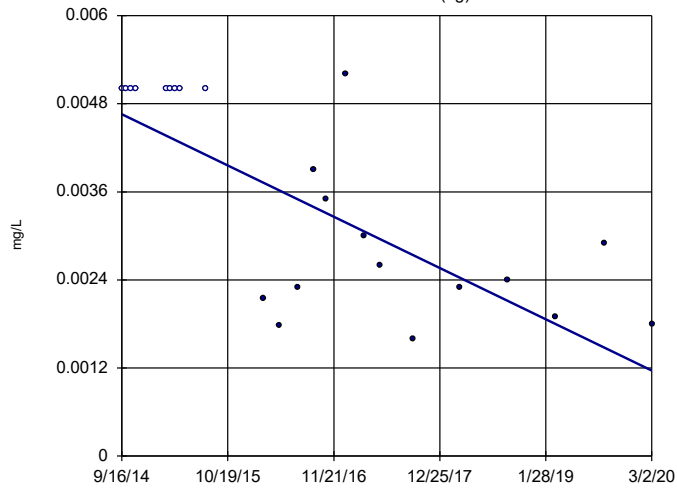
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-36R (bg)



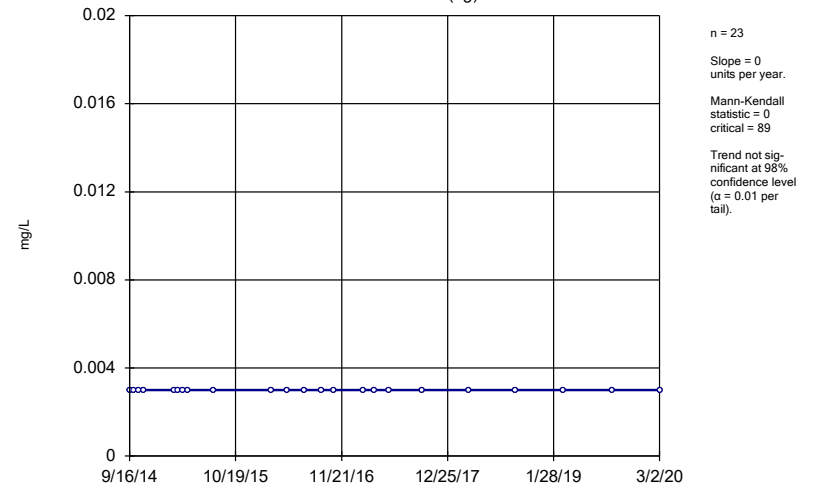
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-37 (bg)



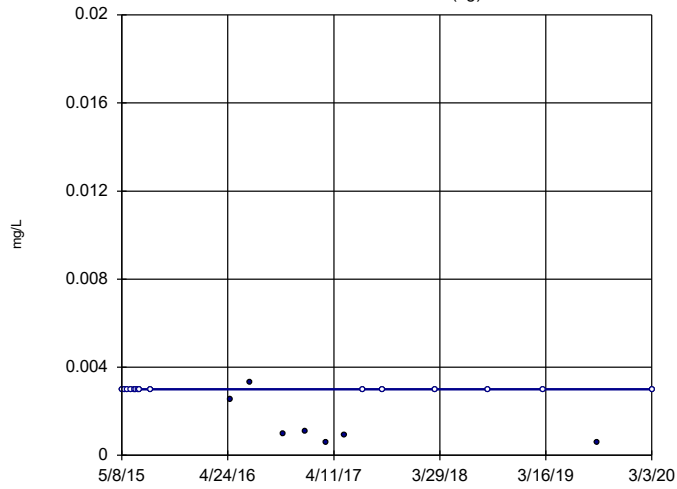
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-38 (bg)



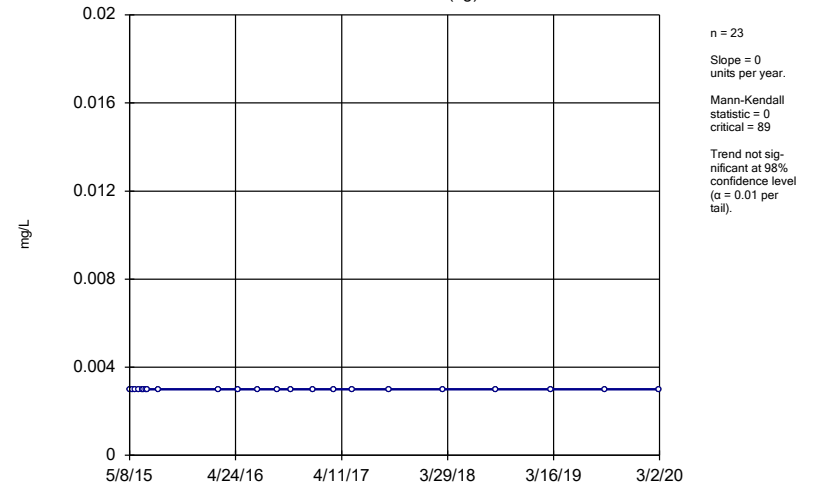
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-51RZ (bg)



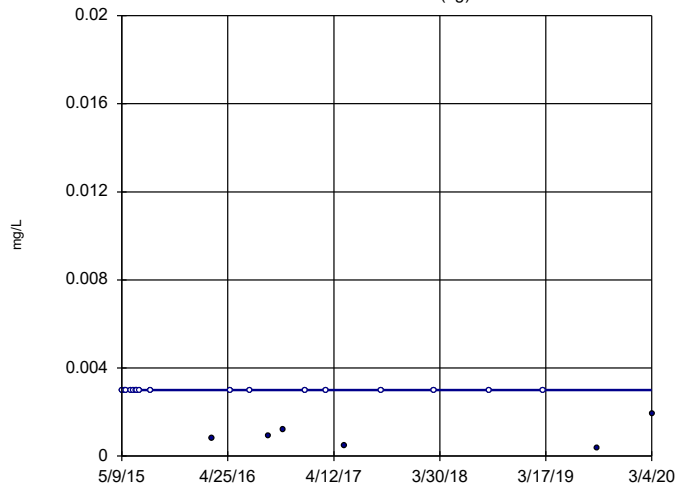
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-52 (bg)



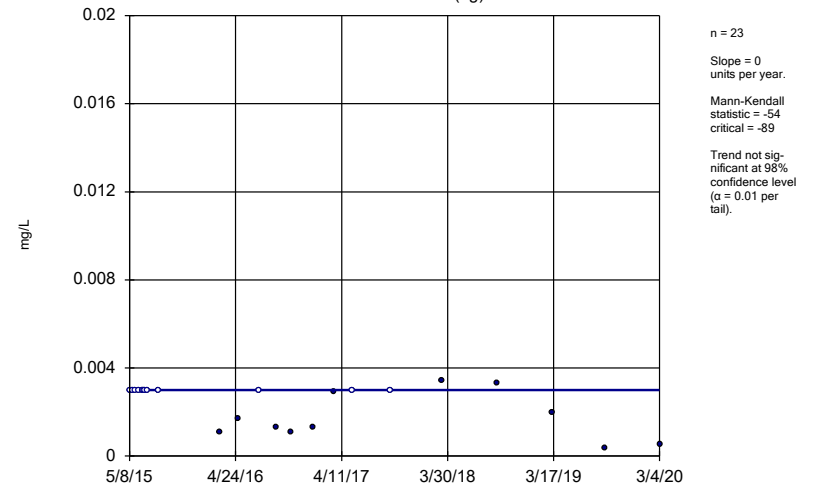
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-53 (bg)



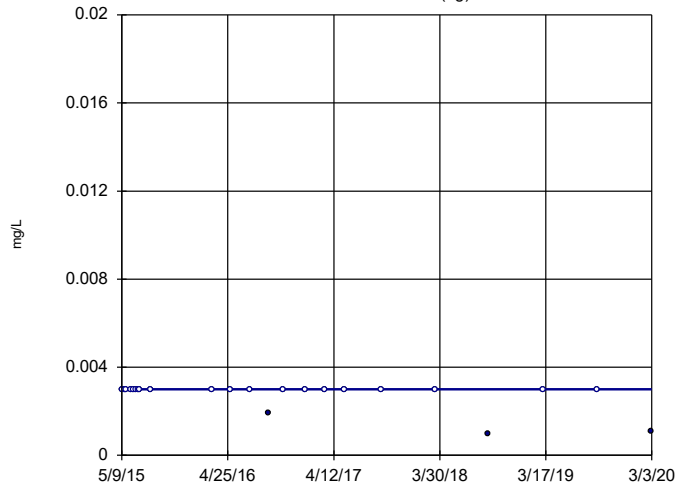
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-53R (bg)



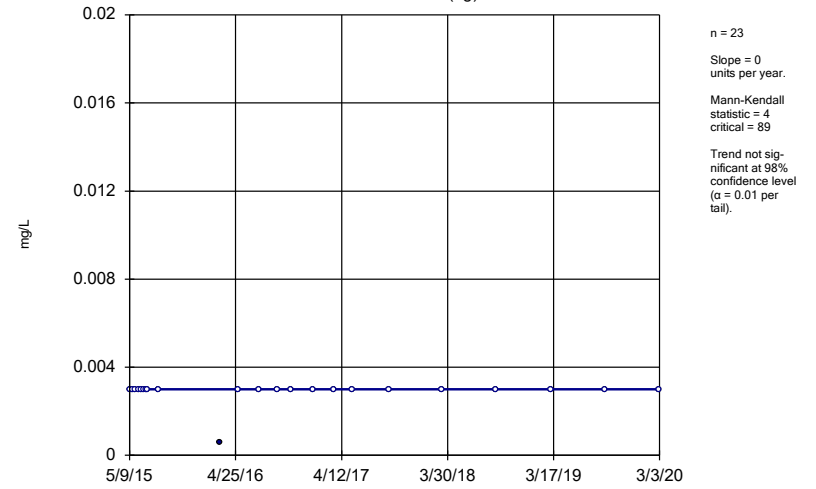
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-54 (bg)



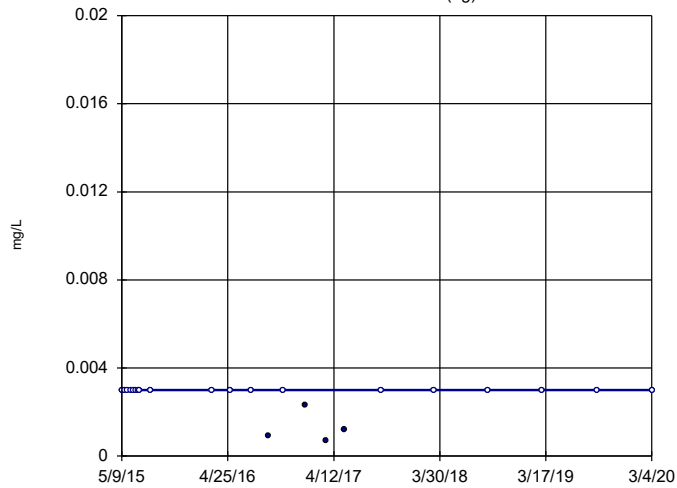
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-55 (bg)



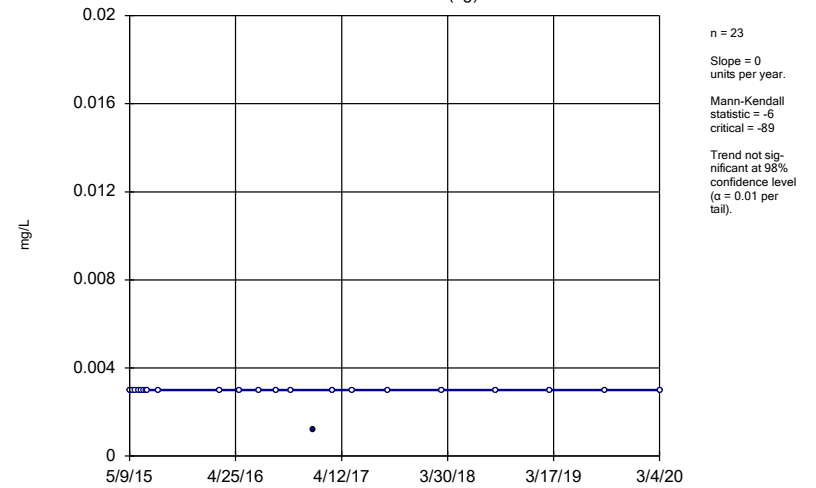
Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator GWA-55R (bg)



Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

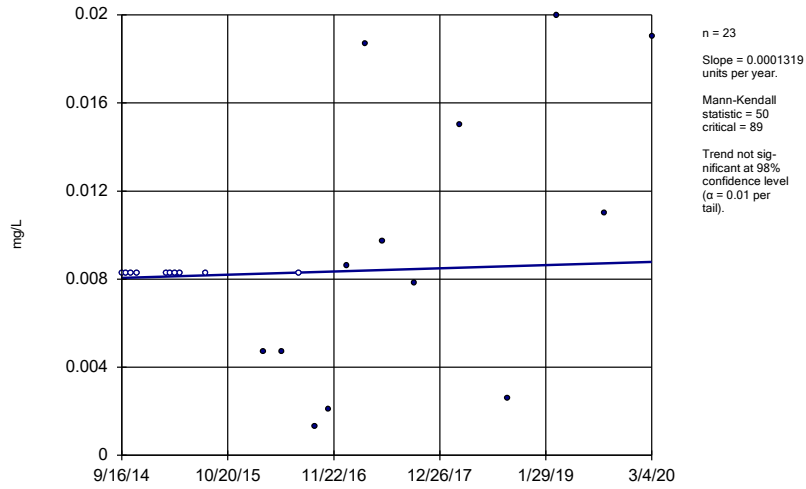
Sen's Slope Estimator GWA-56 (bg)



Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

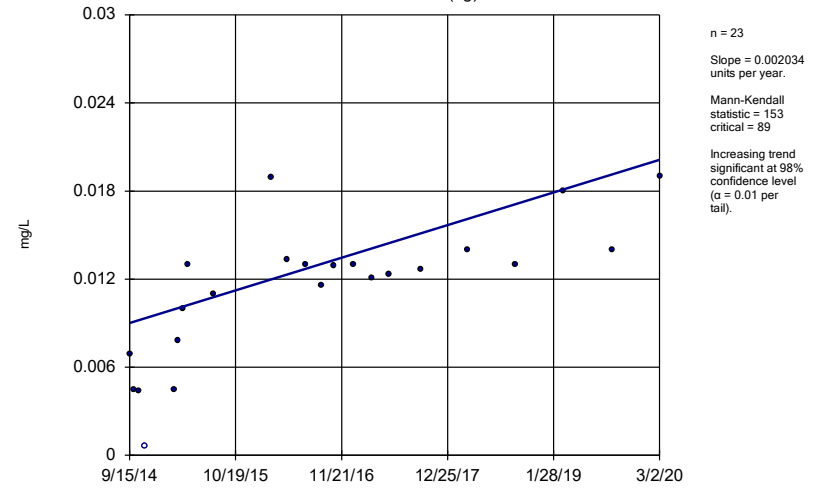
GWC-16R



Constituent: Antimony Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

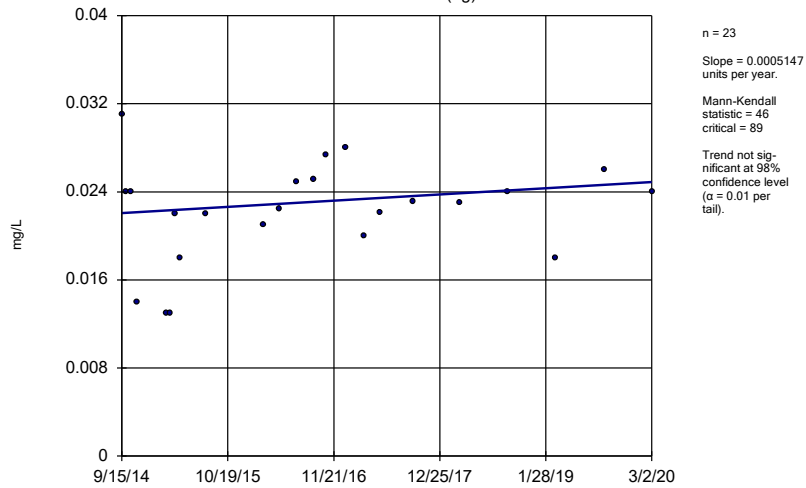
GWA-36 (bg)



Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

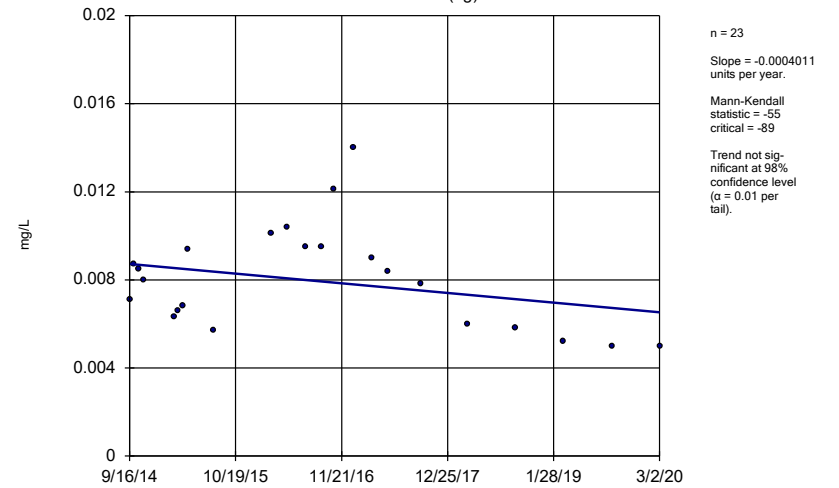
GWA-36R (bg)



Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

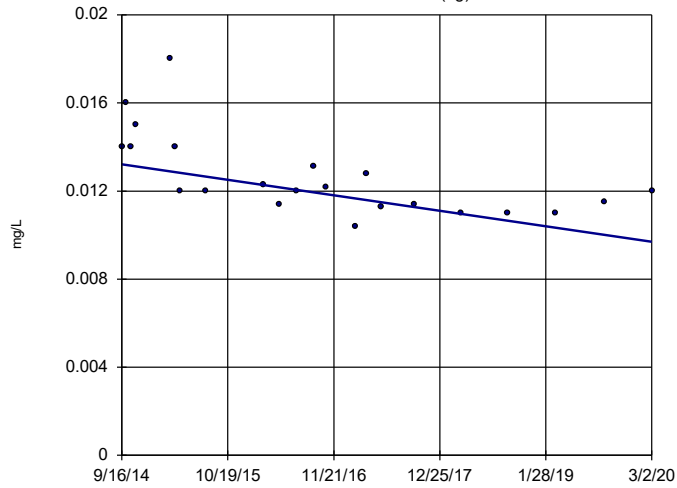
GWA-37 (bg)



Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-38 (bg)

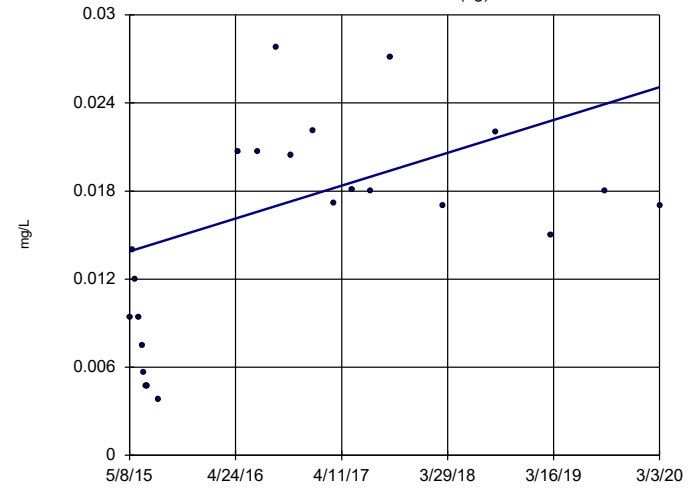


n = 22
Slope = -0.0006432 units per year.
Mann-Kendall statistic = -124
critical = -84
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-51RZ (bg)

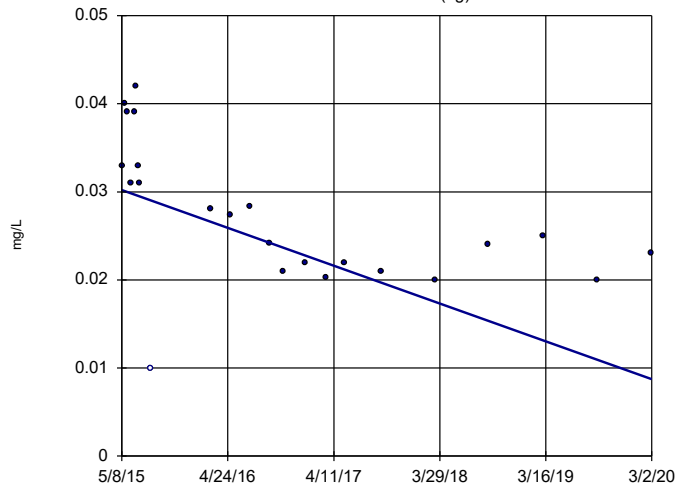


n = 23
Slope = 0.002317 units per year.
Mann-Kendall statistic = 58
critical = 89
Trend not significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-52 (bg)

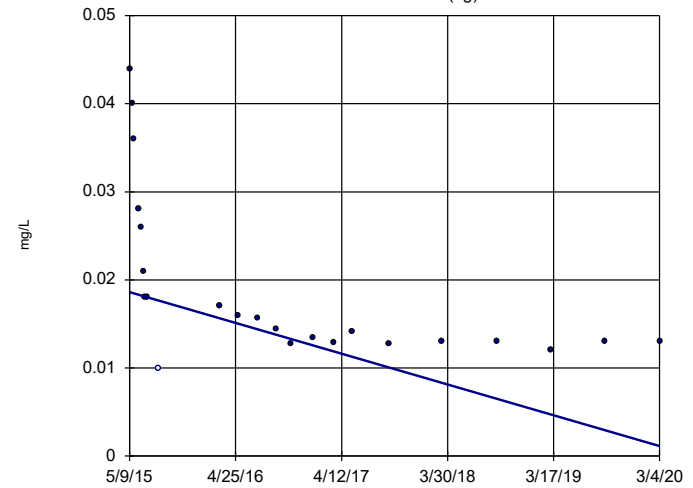


n = 23
Slope = -0.004457 units per year.
Mann-Kendall statistic = -146
critical = -89
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-53 (bg)

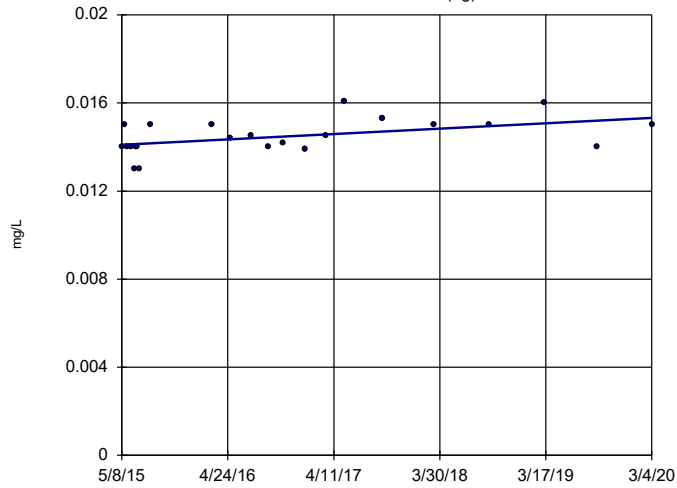


n = 23
Slope = -0.003624 units per year.
Mann-Kendall statistic = -180
critical = -89
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-53R (bg)



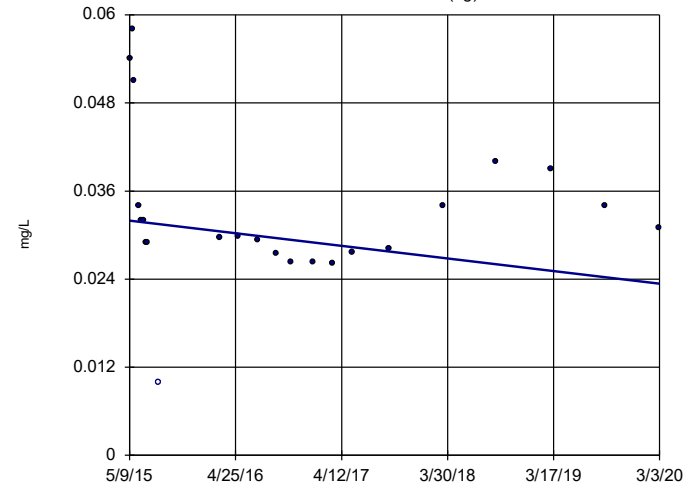
n = 23
 Slope = 0.0002544
 units per year.
 Mann-Kendall
 statistic = 83
 critical = 89
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-54 (bg)

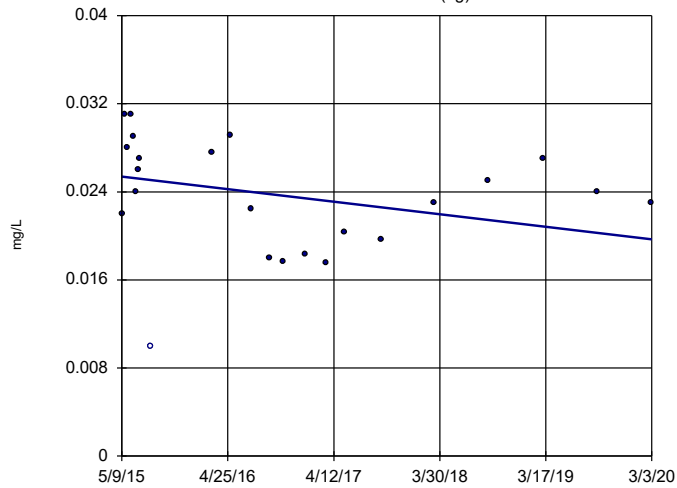


n = 23
 Slope = -0.001785
 units per year.
 Mann-Kendall
 statistic = -51
 critical = -89
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-55 (bg)

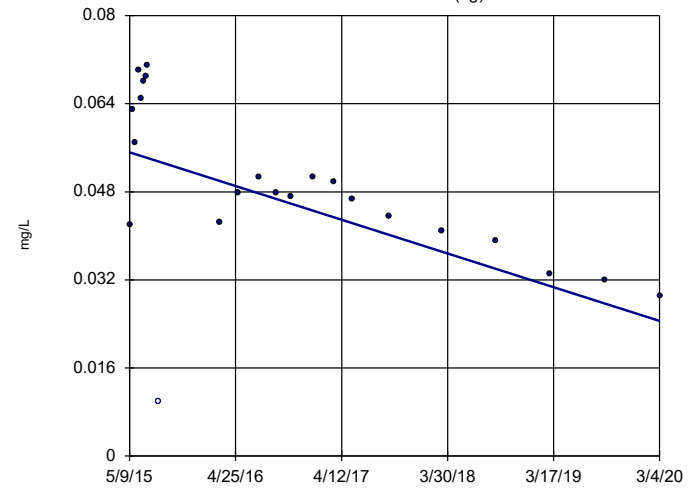


n = 23
 Slope = -0.001184
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -89
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-55R (bg)

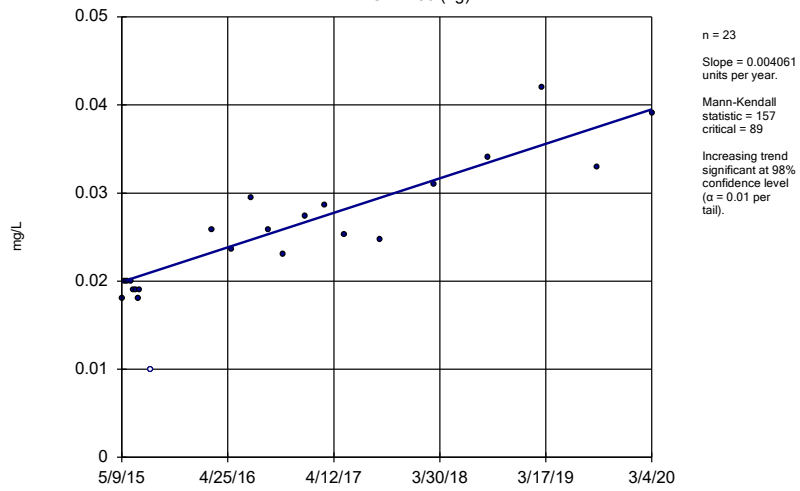


n = 23
 Slope = -0.006343
 units per year.
 Mann-Kendall
 statistic = -125
 critical = -89
 Decreasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/16/2020 10:23 AM View: Bedrock & Overburden - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-56 (bg)



Constituent: Barium Analysis Run 4/16/2020 10:24 AM View: Bedrock & Overburden - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

FIGURE F.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Chloride (mg/L)	GWA-52	3.83	n/a	3/2/2020	4.9	Yes	13	2.279	0.5996	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWA-52	12.64	n/a	3/2/2020	16.3	Yes	13	6.378	2.42	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/3/2020	11.3	Yes	13	3.733	1.614	7.692	None	0.0006839	Param 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Chloride (mg/L)	GWA-36	2.751	n/a	3/2/2020	2.1	No	13	2.195	0.2147	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-36R	3.698	n/a	3/2/2020	2.4	No	13	3.017	0.2633	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-37	1.522	n/a	3/2/2020	0.78	No	13	1.022	0.1933	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-38	3.142	n/a	3/2/2020	2.5	No	13	2.473	0.2586	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-51RZ	4.153	n/a	3/3/2020	2.6	No	13	3.179	0.3765	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-52	3.83	n/a	3/2/2020	4.9	Yes	13	2.279	0.5996	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-53	2.851	n/a	3/4/2020	2.2	No	13	2.48	0.1434	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-53R	3.327	n/a	3/4/2020	2.3	No	13	0.9493	0.09766	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-54	1.953	n/a	3/3/2020	0.77	No	13	1.201	0.2909	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-55	3.939	n/a	3/3/2020	2.7	No	13	3.137	0.3098	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-55R	3.604	n/a	3/4/2020	2.6	No	13	2.938	0.2574	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWA-56	10.33	n/a	3/4/2020	4.5	No	13	6.322	1.55	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-16R	2.959	n/a	3/4/2020	0.79	No	13	1.914	0.4039	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-17R	7.985	n/a	3/5/2020	4.5	No	13	6.269	0.6635	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-18	2.764	n/a	3/6/2020	2.2	No	13	2.171	0.2291	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-18R	3.3	n/a	3/5/2020	2.2	No	13	n/a	n/a	0	n/a	0.009692	NP (normality) 1 of 2	
Chloride (mg/L)	GWC-19R	3.064	n/a	3/4/2020	2.3	No	13	2.447	0.2387	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-20R	2.711	n/a	3/5/2020	1.5	No	13	1.797	0.3534	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-21R	5.133	n/a	3/3/2020	3.9	No	13	4.046	0.42	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-22R	3.3	n/a	3/3/2020	2.5	No	13	n/a	n/a	0	n/a	0.009692	NP (normality) 1 of 2	
Chloride (mg/L)	GWC-23R	2.938	n/a	3/5/2020	1.3	No	13	2.051	0.3427	0	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-24R	3.423	n/a	3/3/2020	2.1	No	13	6.078	2.178	7.692	None	0.0006839	Param 1 of 2	
Chloride (mg/L)	GWC-25R	3.206	n/a	3/3/2020	2.4	No	13	2.661	0.2106	0	None	0.0006839	Param 1 of 2	
pH (pH units)	GWA-36	7.43	6.39	3/2/2020	6.58	No	13	6.91	0.2008	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-36R	7.61	7.078	3/2/2020	7.24	No	13	7.344	0.1029	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-37	6.403	4.874	3/2/2020	5.52	No	13	5.638	0.2954	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-38	6.226	4.732	3/2/2020	5.49	No	13	5.479	0.2887	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-51RZ	7.749	7.257	3/3/2020	7.73	No	14	7.503	0.09723	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-52	7.772	7.234	3/2/2020	7.44	No	13	7.503	0.104	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-53	7.944	7.476	3/4/2020	7.63	No	13	7.71	0.09055	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-53R	7.946	7.603	3/4/2020	7.72	No	13	7.775	0.06628	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-54	7.939	7.275	3/3/2020	7.59	No	13	7.607	0.1283	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-55	7.85	6.813	3/3/2020	6.95	No	13	7.332	0.2005	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-55R	8.134	7.032	3/4/2020	7.27	No	13	7.583	0.2129	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWA-56	8.435	7.551	3/4/2020	7.95	No	14	7.993	0.1746	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-16R	7.505	6.817	3/4/2020	7.37	No	13	7.161	0.1329	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-17R	7.311	7.071	3/5/2020	7.3	No	13	7.191	0.04645	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-18	7.616	5.885	3/6/2020	7.01	No	13	6.751	0.3346	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-18R	8.062	7.418	3/5/2020	7.77	No	13	7.74	0.1244	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-19R	7.885	7.519	3/4/2020	7.65	No	13	7.702	0.07073	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-20R	7.945	7.323	3/5/2020	7.6	No	14	7.634	0.1228	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-21R	7.342	6.761	3/3/2020	7.1	No	13	7.052	0.1123	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-22R	8.056	7.094	3/3/2020	7.15	No	14	7.575	0.19	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-23R	7.832	6.951	3/5/2020	7.24	No	13	7.392	0.1702	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-24R	8.014	6.761	3/3/2020	7.55	No	13	7.388	0.2421	0	None	0.000342	Param 1 of 2	
pH (pH units)	GWC-25R	7.874	7.241	3/3/2020	7.56	No	13	7.558	0.1224	0	None	0.000342	Param 1 of 2	
Sulfate (mg/L)	GWA-36	2.854	n/a	3/2/2020	0.5ND	No	13	1.316	0.5945	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-36R	9.874	n/a	3/2/2020	7.9	No	13	1.713	0.5527	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-37	1.16	n/a	3/2/2020	0.5ND	No	13	0.661	0.1927	7.692	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-38	2.958	n/a	3/2/2020	0.5	No	13	1.285	0.6468	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-51RZ	32.12	n/a	3/3/2020	21.5	No	13	20.19	4.61	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-52	12.64	n/a	3/2/2020	16.3	Yes	13	6.378	2.42	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-53	2.285	n/a	3/4/2020	1.5	No	13	1.903	0.1477	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-53R	2.388	n/a	3/4/2020	1.7	No	13	1.939	0.1737	0	None	0.0006839	Param 1 of 2	
Sulfate (mg/L)	GWA-54	9.872	n/a	3/3/2020	1.7	No	13	5.531	1.678	0	None	0.0006839	Param 1 of 2	

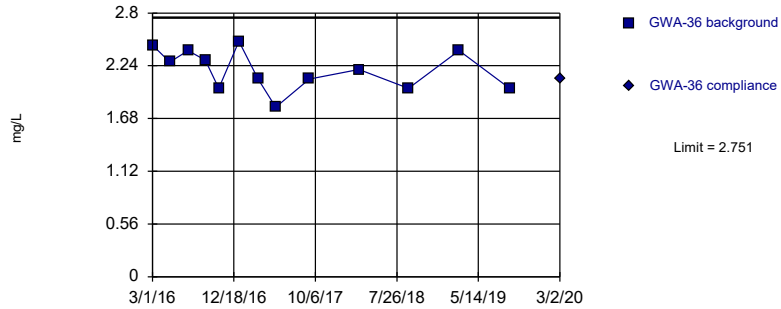
Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/16/2020, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Sulfate (mg/L)	GWA-55	48.37	n/a	3/3/2020	29	No	13	19.75	11.06	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWA-55R	29.73	n/a	3/4/2020	23.4	No	13	19.94	3.786	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWA-56	149.4	n/a	3/4/2020	69.4	No	13	84.7	25.01	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-16R	13.9	n/a	3/4/2020	8.4	No	13	7.229	2.577	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-17R	9.253	n/a	3/5/2020	7.7	No	12	1.876	0.1321	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-18	2.59	n/a	3/6/2020	2	No	13	2.009	0.2247	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-18R	2.805	n/a	3/5/2020	1.9	No	12	2.362	0.1675	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-19R	4.3	n/a	3/4/2020	3.6	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-20R	1.97	n/a	3/5/2020	1.1	No	13	1.943	0.7494	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/3/2020	11.3	Yes	13	3.733	1.614	7.692	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-22R	2.79	n/a	3/3/2020	1.7	No	12	2.172	0.2339	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/5/2020	10.8	No	13	13.96	4.844	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-24R	16.95	n/a	3/3/2020	2	No	13	1.955	0.8353	0	0	None	0.0006839	Param 1 of 2
Sulfate (mg/L)	GWC-25R	2.06	n/a	3/3/2020	1.6	No	13	1.614	0.1727	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-36	155.2	n/a	3/2/2020	65	No	13	96.92	22.54	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-36R	235.5	n/a	3/2/2020	170	No	13	153.8	31.56	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-37	81.94	n/a	3/2/2020	5ND	No	12	4.428	1.75	33.33	Kaplan-Meier	0.0006839	Param 1 of 2	
Total Dissolved Solids (mg/l)	GWA-38	119.7	n/a	3/2/2020	32	No	13	6.448	1.736	38.46	Kaplan-Meier	0.0006839	Param 1 of 2	
Total Dissolved Solids (mg/l)	GWA-51RZ	343.9	n/a	3/3/2020	211	No	13	216.5	49.22	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-52	179.8	n/a	3/2/2020	142	No	12	141.4	14.53	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-53	174.6	n/a	3/4/2020	146	No	13	130.5	17.04	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-53R	193.3	n/a	3/4/2020	157	No	12	134.6	22.2	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-54	181.6	n/a	3/3/2020	91	No	13	125.2	21.8	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-55	277	n/a	3/3/2020	210	No	13	192.6	32.62	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-55R	247.1	n/a	3/4/2020	207	No	13	176.1	27.46	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-56	498.4	n/a	3/4/2020	325	No	13	328.7	65.59	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-16R	365	n/a	3/4/2020	326	No	13	290.5	28.8	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-17R	384.7	n/a	3/5/2020	307	No	13	330.2	21.04	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-18	161.2	n/a	3/6/2020	109	No	13	93.77	26.05	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-18R	191.3	n/a	3/5/2020	143	No	13	142.6	18.81	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-19R	229.2	n/a	3/4/2020	157	No	13	168.6	23.42	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-20R	234.6	n/a	3/5/2020	171	No	13	195.7	15.04	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-21R	435.3	n/a	3/3/2020	292	No	13	286.9	57.36	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-22R	199.8	n/a	3/3/2020	181	No	13	163.1	14.18	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-23R	374.2	n/a	3/5/2020	265	No	13	294.5	30.84	0	0	None	0.0006839	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-24R	209	n/a	3/3/2020	146	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Total Dissolved Solids (mg/l)	GWC-25R	194.6	n/a	3/3/2020	183	No	13	23678	5490	0	0	None	0.0006839	Param 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

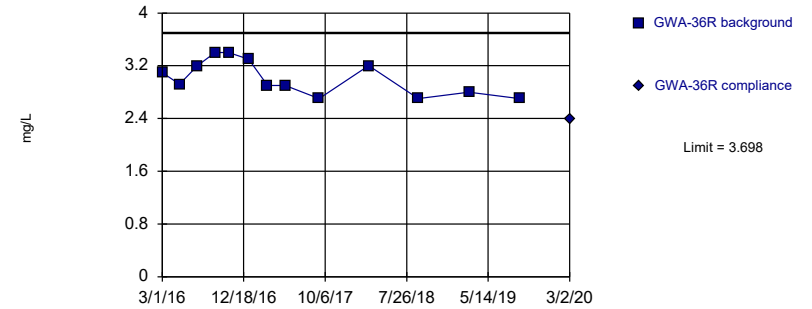


Background Data Summary: Mean=2.195, Std. Dev.=0.2147, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.948, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

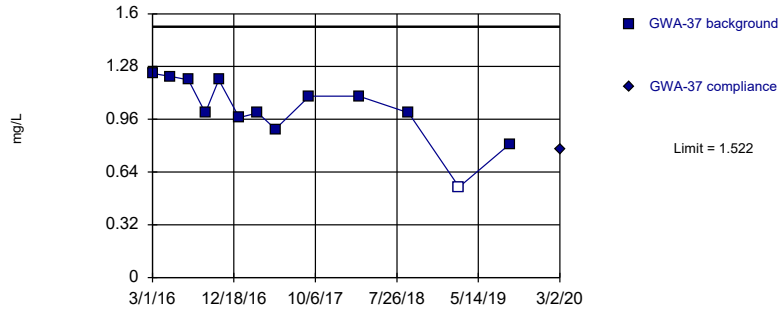


Background Data Summary: Mean=3.017, Std. Dev.=0.2633, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8981, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

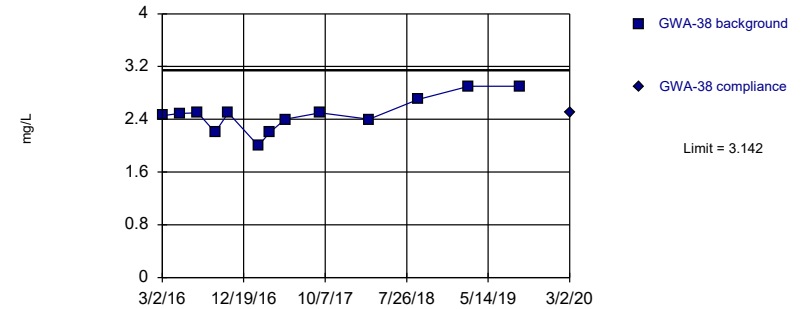


Background Data Summary: Mean=1.022, Std. Dev.=0.1933, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8947, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.473, Std. Dev.=0.2586, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
3/1/2016	2.4587	
5/2/2016	2.28	
7/7/2016	2.4	
9/7/2016	2.3	
10/25/2016	2	
1/5/2017	2.5 (J)	
3/15/2017	2.1	
5/17/2017	1.8	
9/15/2017	2.1	
3/12/2018	2.2	
9/6/2018	2	
3/6/2019	2.4	
9/4/2019	2	
3/2/2020		2.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
3/1/2016	3.096	
5/2/2016	2.92	
7/6/2016	3.2	
9/7/2016	3.4	
10/25/2016	3.4	
1/5/2017	3.3	
3/14/2017	2.9	
5/16/2017	2.9	
9/15/2017	2.7	
3/12/2018	3.2	
9/6/2018	2.7	
3/7/2019	2.8	
9/4/2019	2.7	
3/2/2020		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
3/1/2016	1.2389	
5/3/2016	1.22	
7/8/2016	1.2	
9/7/2016	1	
10/25/2016	1.2	
1/6/2017	0.97	
3/14/2017	1	
5/16/2017	0.9	
9/15/2017	1.1	
3/12/2018	1.1	
9/6/2018	1	
3/6/2019	<1.1	
9/4/2019	0.81 (J)	
3/2/2020		0.78 (J)

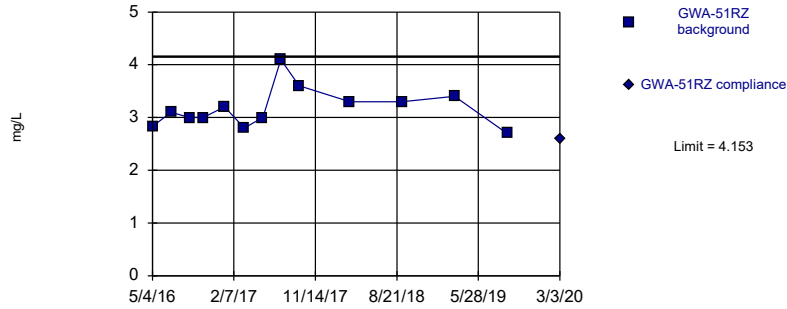
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
3/2/2016	2.4559	
5/3/2016	2.49	
7/7/2016	2.5	
9/8/2016	2.2	
10/25/2016	2.5	
2/9/2017	2	
3/23/2017	2.2	
5/17/2017	2.4	
9/19/2017	2.5	
3/13/2018	2.4	
9/6/2018	2.7	
3/7/2019	2.9	
9/4/2019	2.9	
3/2/2020		2.5

Within Limit

Prediction Limit
Intrawell Parametric

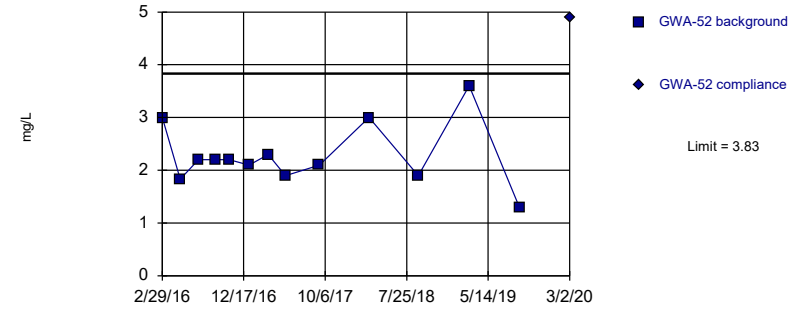


Background Data Summary: Mean=3.179, Std. Dev.=0.3765, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9165, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

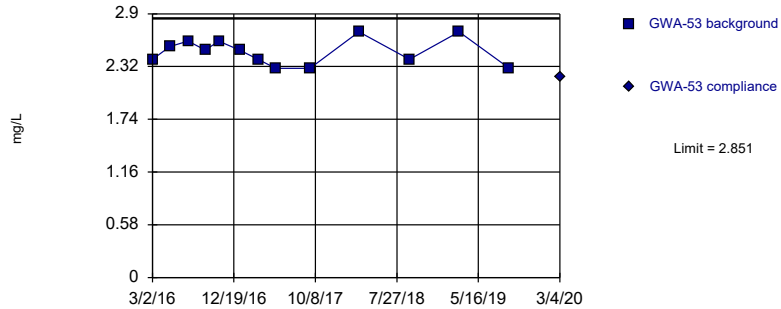


Background Data Summary: Mean=2.279, Std. Dev.=0.5996, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9009, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

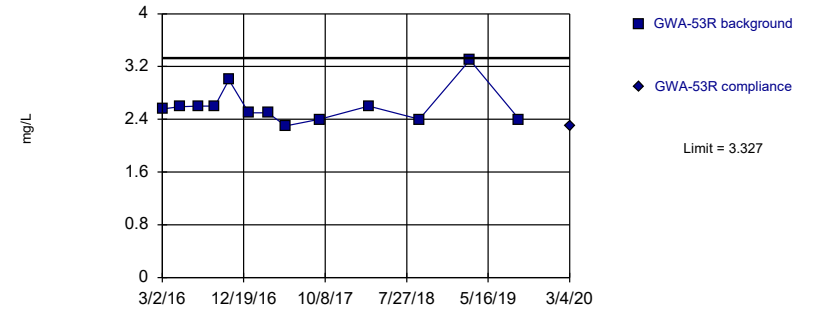


Background Data Summary: Mean=2.48, Std. Dev.=0.1434, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9144, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.9493, Std. Dev.=0.09766, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8227, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/4/2016	2.83 (D)	
7/7/2016	3.1 (D)	
9/8/2016	3 (D)	
10/26/2016	3 (D)	
1/6/2017	3.2 (D)	
3/15/2017	2.8 (D)	
5/18/2017	3 (D)	
7/19/2017	4.1 (D)	
9/19/2017	3.6 (D)	
3/13/2018	3.3	
9/7/2018	3.3	
3/8/2019	3.4	
9/4/2019	2.7	
3/3/2020		2.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
2/29/2016	2.9988	
5/4/2016	1.83	
7/8/2016	2.2	
9/8/2016	2.2	
10/26/2016	2.2	
1/6/2017	2.1	
3/15/2017	2.3	
5/17/2017	1.9	
9/15/2017	2.1	
3/13/2018	3	
9/6/2018	1.9	
3/7/2019	3.6	
9/4/2019	1.3	
3/2/2020		4.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
3/2/2016	2.3976	
5/3/2016	2.54	
7/8/2016	2.6	
9/8/2016	2.5	
10/26/2016	2.6	
1/9/2017	2.5	
3/16/2017	2.4	
5/19/2017	2.3	
9/19/2017	2.3	
3/13/2018	2.7	
9/11/2018	2.4	
3/8/2019	2.7	
9/5/2019	2.3	
3/4/2020		2.2

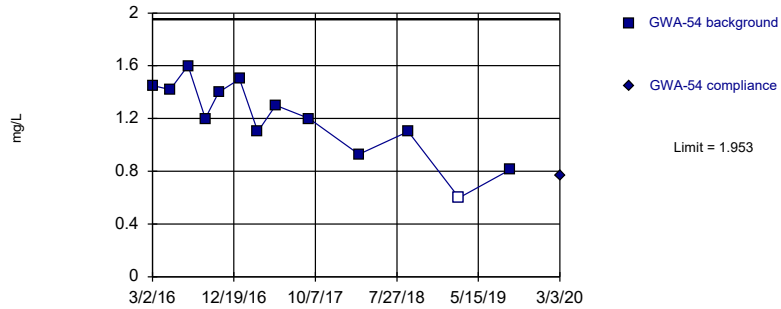
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
3/2/2016	2.556	
5/3/2016	2.59	
7/11/2016	2.6	
9/7/2016	2.6	
10/27/2016	3	
1/6/2017	2.5	
3/16/2017	2.5	
5/19/2017	2.3	
9/19/2017	2.4	
3/13/2018	2.6	
9/11/2018	2.4	
3/12/2019	3.3	
9/5/2019	2.4	
3/4/2020		2.3

Within Limit

Prediction Limit
 Intrawell Parametric

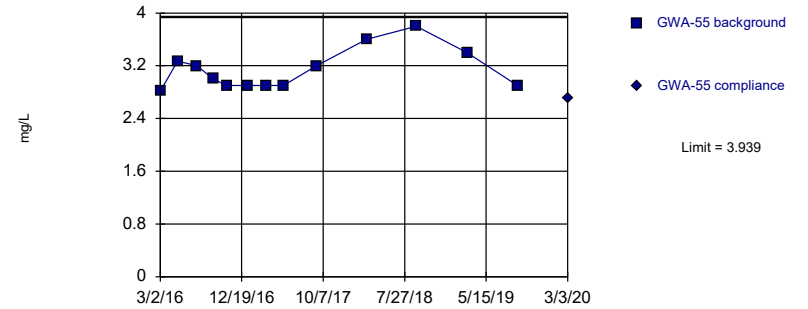


Background Data Summary: Mean=1.201, Std. Dev.=0.2909, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

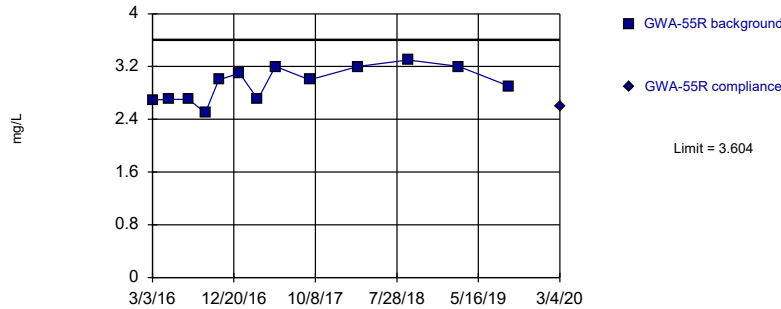


Background Data Summary: Mean=3.137, Std. Dev.=0.3098, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8568, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

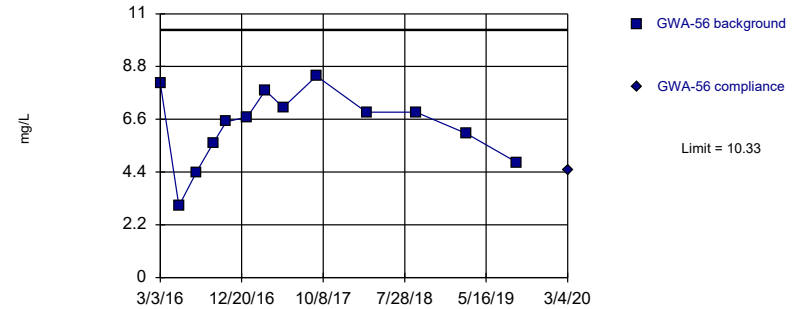


Background Data Summary: Mean=2.938, Std. Dev.=0.2574, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=6.322, Std. Dev.=1.55, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
3/2/2016	1.4496	
5/4/2016	1.42	
7/8/2016	1.6	
9/8/2016	1.2	
10/26/2016	1.4	
1/9/2017	1.5	
3/15/2017	1.1	
5/18/2017	1.3	
9/15/2017	1.2	
3/13/2018	0.93	
9/6/2018	1.1	
3/7/2019	<1.2	
9/5/2019	0.81 (J)	
3/3/2020		0.77 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
3/2/2016	2.815	
5/3/2016	3.27	
7/11/2016	3.2	
9/9/2016	3	
10/26/2016	2.9	
1/9/2017	2.9	
3/16/2017	2.9	
5/18/2017	2.9	
9/15/2017	3.2	
3/12/2018	3.6	
9/7/2018	3.8	
3/8/2019	3.4	
9/5/2019	2.9	
3/3/2020		2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
3/3/2016	2.6912	
5/3/2016	2.7	
7/11/2016	2.7	
9/9/2016	2.5	
10/27/2016	3	
1/9/2017	3.1	
3/16/2017	2.7	
5/18/2017	3.2	
9/18/2017	3	
3/12/2018	3.2	
9/7/2018	3.3	
3/7/2019	3.2	
9/5/2019	2.9	
3/4/2020		2.6

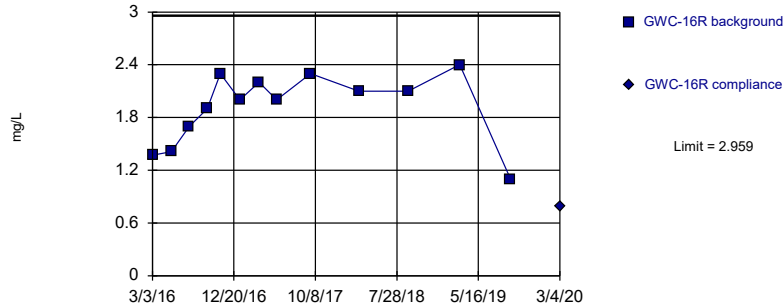
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
3/3/2016	8.0925	
5/9/2016	2.99	
7/11/2016	4.4	
9/9/2016	5.6	
10/26/2016	6.5	
1/9/2017	6.7	
3/15/2017	7.8	
5/18/2017	7.1	
9/15/2017	8.4	
3/13/2018	6.9	
9/7/2018	6.9	
3/7/2019	6	
9/4/2019	4.8	
3/4/2020		4.5

Within Limit

Prediction Limit
Intrawell Parametric

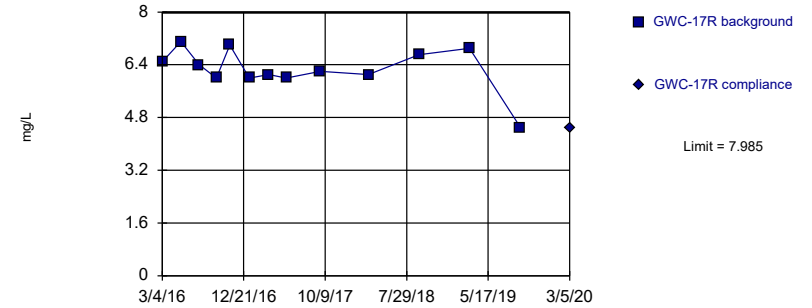


Background Data Summary: Mean=1.914, Std. Dev.=0.4039, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9077, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

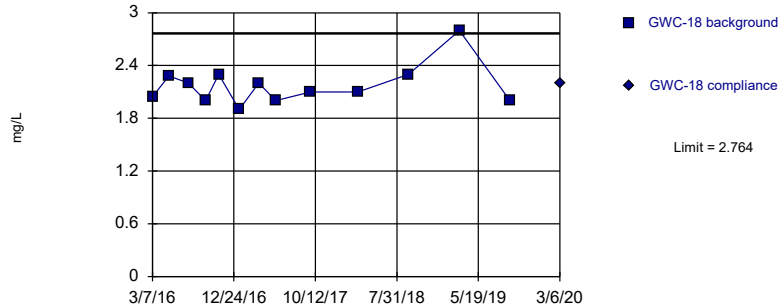


Background Data Summary: Mean=6.269, Std. Dev.=0.6635, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8519, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

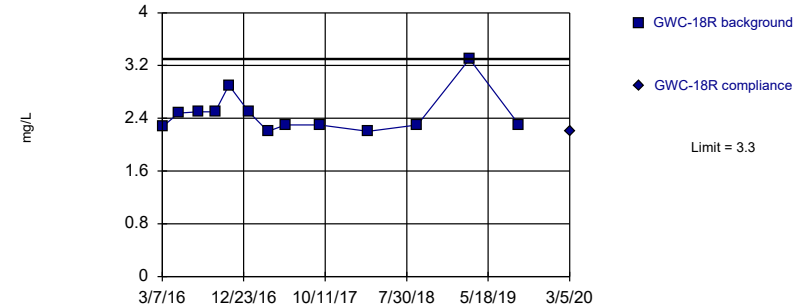


Background Data Summary: Mean=2.171, Std. Dev.=0.2291, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.834, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
3/3/2016	1.3707 (D)	
5/10/2016	1.41	
7/13/2016	1.7	
9/15/2016	1.9	
11/2/2016	2.3	
1/11/2017	2	
3/20/2017	2.2	
5/23/2017	2	
9/21/2017	2.3	
3/14/2018	2.1	
9/7/2018	2.1	
3/11/2019	2.4	
9/9/2019	1.1	
3/4/2020		0.79 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
3/4/2016	6.4905	
5/10/2016	7.1	
7/14/2016	6.4	
9/14/2016	6	
11/1/2016	7	
1/11/2017	6	
3/21/2017	6.1	
5/23/2017	6	
9/22/2017	6.2	
3/14/2018	6.1	
9/11/2018	6.7	
3/12/2019	6.9	
9/10/2019	4.5	
3/5/2020		4.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
3/7/2016	2.0446	
5/5/2016	2.28	
7/13/2016	2.2	
9/13/2016	2	
10/31/2016	2.3	
1/12/2017	1.9	
3/23/2017	2.2	
5/23/2017	2	
9/25/2017	2.1	
3/14/2018	2.1	
9/11/2018	2.3	
3/12/2019	2.8	
9/9/2019	2	
3/6/2020		2.2

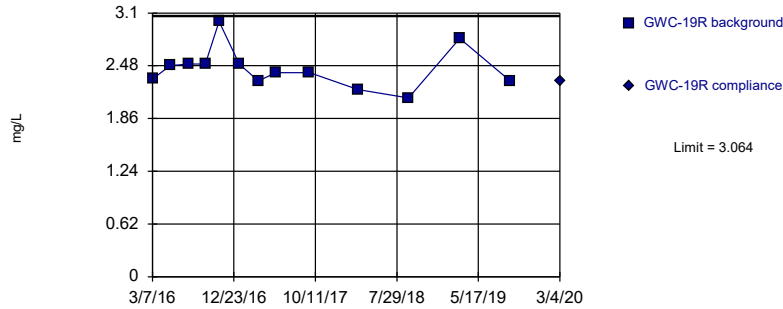
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
3/7/2016	2.2698	
5/5/2016	2.48	
7/13/2016	2.5	
9/12/2016	2.5	
11/1/2016	2.9	
1/11/2017	2.5	
3/20/2017	2.2	
5/22/2017	2.3	
9/21/2017	2.3	
3/14/2018	2.2	
9/7/2018	2.3	
3/12/2019	3.3	
9/6/2019	2.3	
3/5/2020		2.2

Within Limit

Prediction Limit
Intrawell Parametric

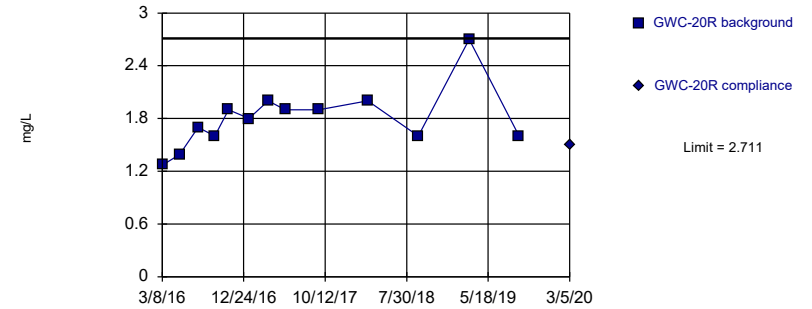


Background Data Summary: Mean=2.447, Std. Dev.=0.2387, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9074, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

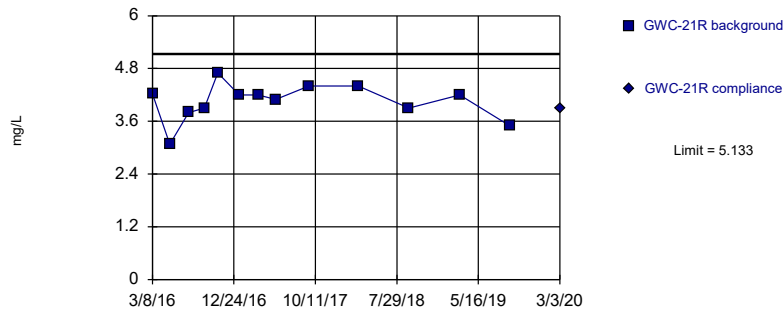


Background Data Summary: Mean=1.797, Std. Dev.=0.3534, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8987, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

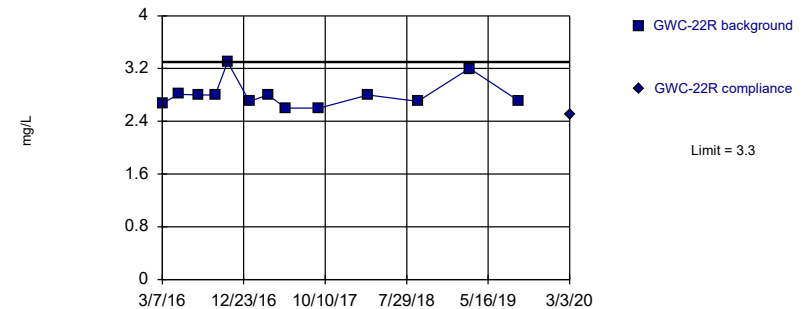


Background Data Summary: Mean=4.046, Std. Dev.=0.42, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 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 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
3/7/2016	2.3254	
5/9/2016	2.48	
7/14/2016	2.5	
9/12/2016	2.5	
10/31/2016	3	
1/11/2017	2.5	
3/21/2017	2.3	
5/22/2017	2.4	
9/20/2017	2.4	
3/14/2018	2.2	
9/10/2018	2.1	
3/12/2019	2.8	
9/9/2019	2.3	
3/4/2020		2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
3/8/2016	1.2699	
5/9/2016	1.39	
7/14/2016	1.7	
9/12/2016	1.6	
10/31/2016	1.9	
1/12/2017	1.8	
3/22/2017	2	
5/22/2017	1.9	
9/19/2017	1.9	
3/14/2018	2	
9/10/2018	1.6	
3/12/2019	2.7	
9/6/2019	1.6 (D)	
3/5/2020		1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
3/8/2016	4.2184	
5/9/2016	3.08	
7/15/2016	3.8	
9/9/2016	3.9	
10/27/2016	4.7	
1/12/2017	4.2	
3/21/2017	4.2	
5/23/2017	4.1	
9/19/2017	4.4	
3/14/2018	4.4	
9/10/2018	3.9	
3/11/2019	4.2	
9/6/2019	3.5	
3/3/2020		3.9

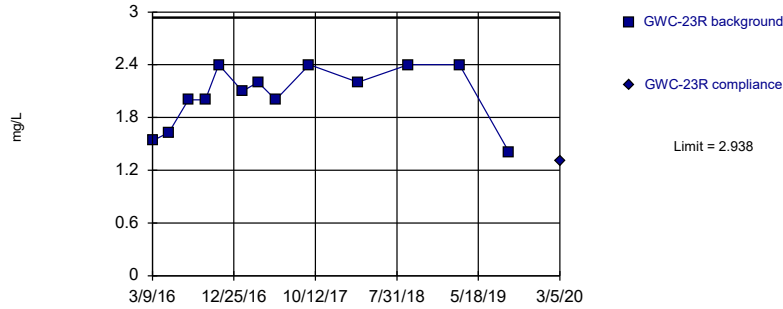
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
3/7/2016	2.6729	
5/5/2016	2.81	
7/14/2016	2.8	
9/12/2016	2.8	
10/27/2016	3.3	
1/13/2017	2.7	
3/20/2017	2.8	
5/23/2017	2.6	
9/19/2017	2.6	
3/13/2018	2.8	
9/7/2018	2.7	
3/11/2019	3.2	
9/5/2019	2.7	
3/3/2020		2.5

Within Limit

Prediction Limit
Intrawell Parametric

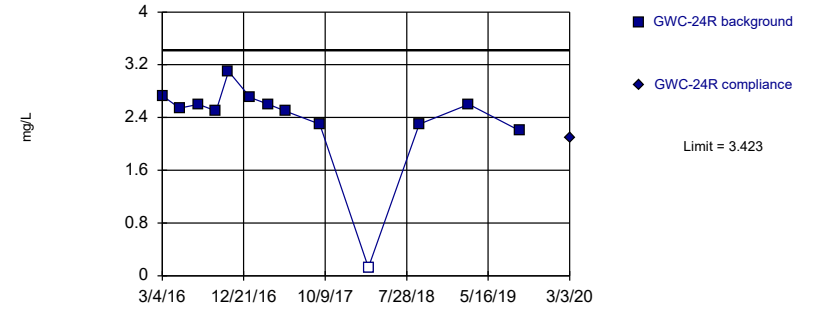


Background Data Summary: Mean=2.051, Std. Dev.=0.3427, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8748, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

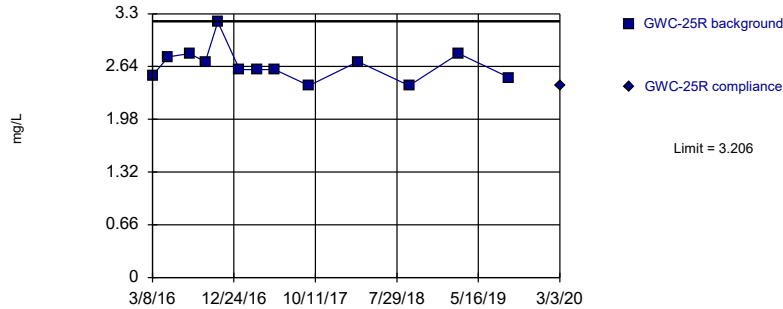


Background Data Summary (based on square transformation): Mean=6.078, Std. Dev.=2.178, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8182, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

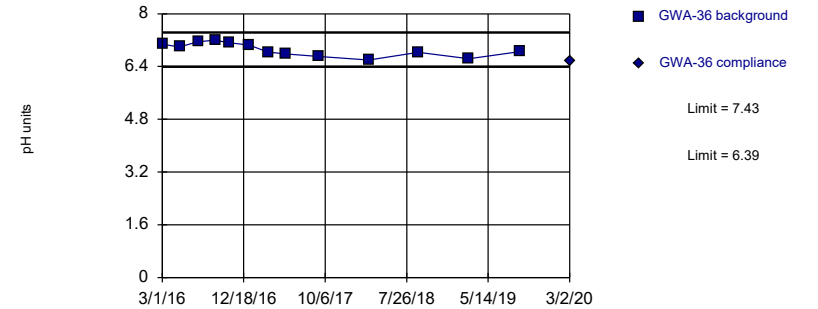


Background Data Summary: Mean=2.661, Std. Dev.=0.2106, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8934, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.91, Std. Dev.=0.2008, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
3/9/2016	1.5349	
5/6/2016	1.63	
7/15/2016	2	
9/14/2016	2	
11/1/2016	2.4	
1/25/2017	2.1	
3/22/2017	2.2	
5/24/2017	2	
9/21/2017	2.4	
3/14/2018	2.2	
9/11/2018	2.4	
3/12/2019	2.4	
9/6/2019	1.4	
3/5/2020		1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
3/4/2016	2.7291	
5/5/2016	2.54	
7/12/2016	2.6	
9/13/2016	2.5	
10/27/2016	3.1	
1/13/2017	2.7	
3/20/2017	2.6	
5/19/2017	2.5	
9/19/2017	2.3	
3/13/2018	<0.25	
9/11/2018	2.3	
3/8/2019	2.6	
9/5/2019	2.2	
3/3/2020		2.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
3/8/2016	2.5307	
5/4/2016	2.76	
7/18/2016	2.8	
9/13/2016	2.7	
10/27/2016	3.2	
1/13/2017	2.6	
3/16/2017	2.6	
5/19/2017	2.6	
9/19/2017	2.4	
3/13/2018	2.7	
9/11/2018	2.4	
3/8/2019	2.8	
9/5/2019	2.5	
3/3/2020		2.4

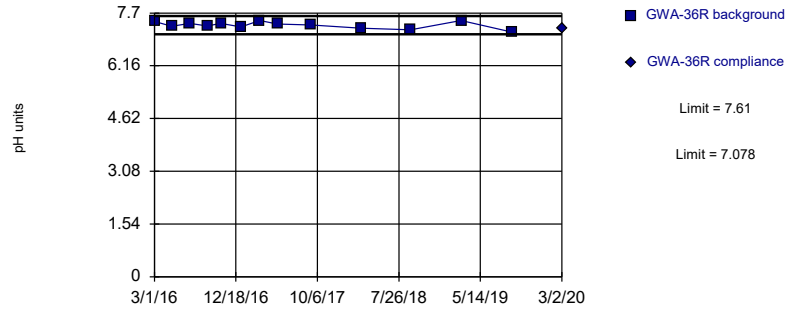
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
3/1/2016	7.07	
5/2/2016	7	
7/7/2016	7.15	
9/7/2016	7.2	
10/25/2016	7.12	
1/5/2017	7.05	
3/15/2017	6.84	
5/17/2017	6.78	
9/15/2017	6.7	
3/12/2018	6.6	
9/6/2018	6.83	
3/6/2019	6.64	
9/4/2019	6.85	
3/2/2020		6.58

Within Limits

Prediction Limit
Intrawell Parametric

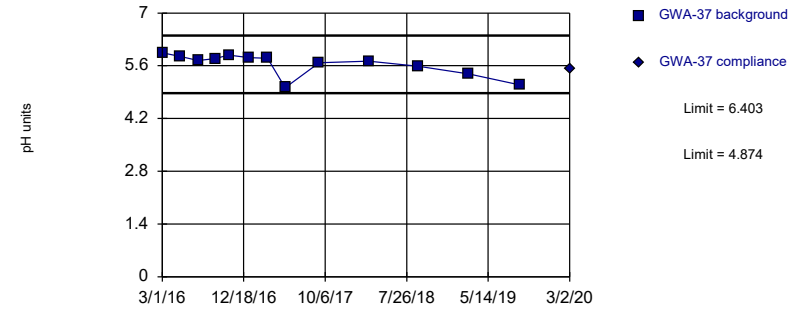


Background Data Summary: Mean=7.344, Std. Dev.=0.1029, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

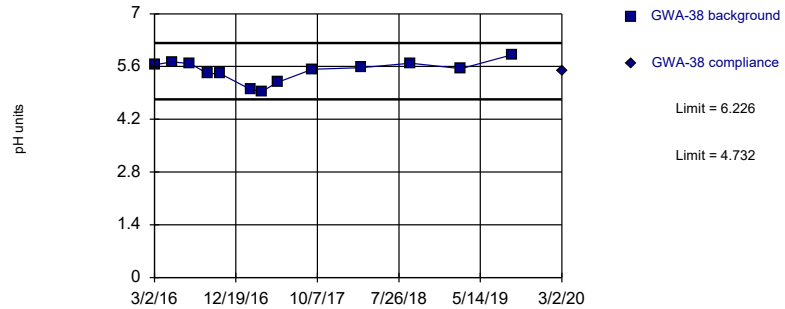


Background Data Summary: Mean=5.638, Std. Dev.=0.2954, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8176, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

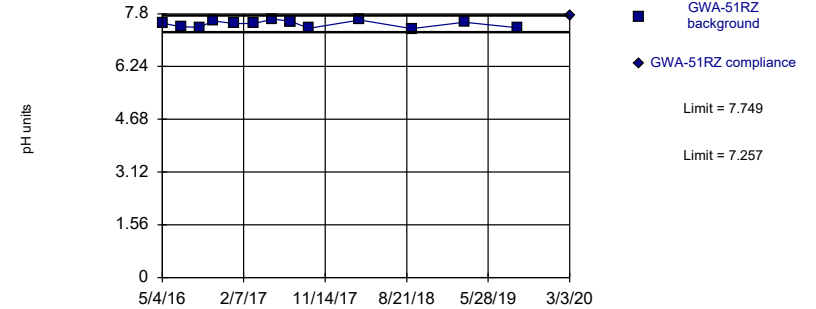


Background Data Summary: Mean=5.479, Std. Dev.=0.2887, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9199, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.503, Std. Dev.=0.09723, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9111, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
3/1/2016	7.45	
5/2/2016	7.31	
7/6/2016	7.4	
9/7/2016	7.32	
10/25/2016	7.4	
1/5/2017	7.29	
3/14/2017	7.48	
5/16/2017	7.38	
9/15/2017	7.35	
3/12/2018	7.26	
9/6/2018	7.21	
3/7/2019	7.48	
9/4/2019	7.14	
3/2/2020		7.24

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
3/1/2016	5.94 (D)	
5/3/2016	5.85	
7/8/2016	5.74	
9/7/2016	5.79	
10/25/2016	5.88	
1/6/2017	5.82	
3/14/2017	5.8	
5/16/2017	5.02	
9/15/2017	5.68	
3/12/2018	5.72	
9/6/2018	5.59	
3/6/2019	5.38	
9/4/2019	5.09	
3/2/2020		5.52

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
3/2/2016	5.65	
5/3/2016	5.72	
7/7/2016	5.68	
9/8/2016	5.42	
10/25/2016	5.41	
2/9/2017	4.99	
3/23/2017	4.94	
5/17/2017	5.18	
9/19/2017	5.53	
3/13/2018	5.57	
9/6/2018	5.69	
3/7/2019	5.54	
9/4/2019	5.91 (D)	
3/2/2020		5.49

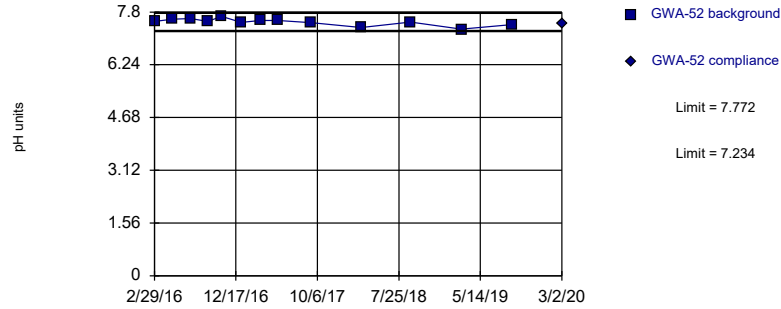
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/4/2016	7.52 (D)	
7/7/2016	7.42 (D)	
9/8/2016	7.4 (D)	
10/26/2016	7.59 (D)	
1/6/2017	7.51 (D)	
3/15/2017	7.51 (D)	
5/18/2017	7.64 (D)	
7/18/2017	7.58	
7/19/2017	7.58 (D)	
9/19/2017	7.37 (D)	
3/13/2018	7.62	
9/7/2018	7.36	
3/8/2019	7.55	
9/4/2019	7.39	
3/3/2020		7.73

Within Limits

Prediction Limit
Intrawell Parametric

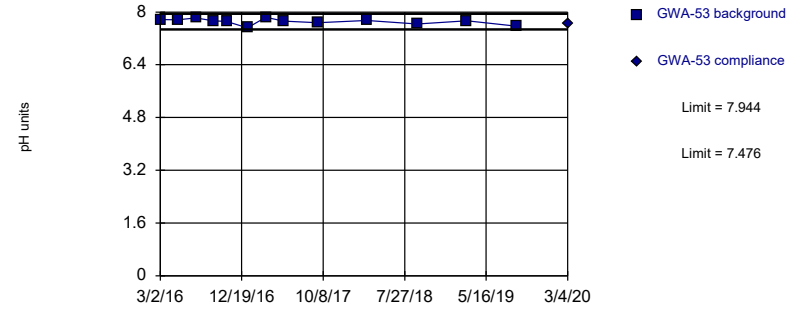


Background Data Summary: Mean=7.503, Std. Dev.=0.104, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

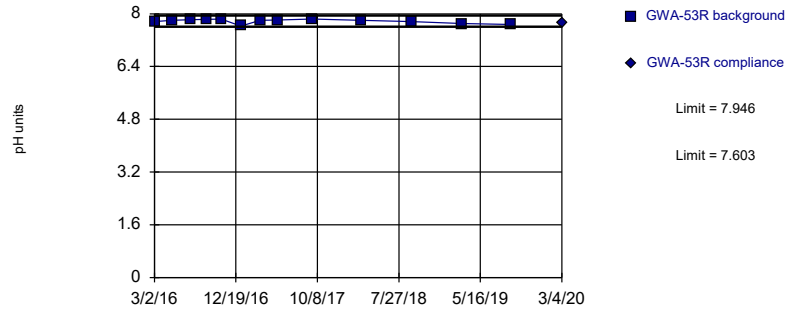


Background Data Summary: Mean=7.71, Std. Dev.=0.09055, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9359, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

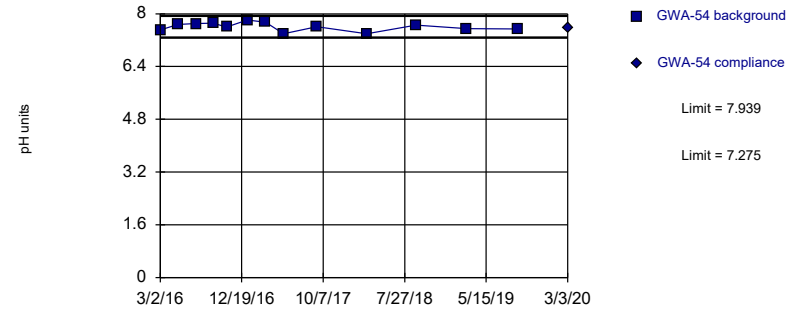


Background Data Summary: Mean=7.775, Std. Dev.=0.06628, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8592, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.607, Std. Dev.=0.1283, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
2/29/2016	7.52	
5/4/2016	7.59	
7/8/2016	7.61	
9/8/2016	7.52	
10/26/2016	7.67	
1/6/2017	7.49	
3/15/2017	7.55	
5/17/2017	7.55	
9/15/2017	7.48	
3/13/2018	7.34	
9/6/2018	7.5	
3/7/2019	7.29	
9/4/2019	7.43	
3/2/2020		7.44

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
3/2/2016	7.77 (D)	
5/3/2016	7.76	
7/8/2016	7.82	
9/8/2016	7.73	
10/26/2016	7.71	
1/9/2017	7.52	
3/16/2017	7.84	
5/19/2017	7.72	
9/19/2017	7.68	
3/13/2018	7.74	
9/11/2018	7.64	
3/8/2019	7.73	
9/5/2019	7.57	
3/4/2020		7.63

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
3/2/2016	7.76	
5/3/2016	7.8	
7/11/2016	7.82	
9/7/2016	7.83	
10/27/2016	7.84	
1/6/2017	7.63	
3/16/2017	7.8	
5/19/2017	7.81	
9/19/2017	7.84	
3/13/2018	7.8	
9/11/2018	7.76	
3/12/2019	7.7	
9/5/2019	7.68	
3/4/2020		7.72

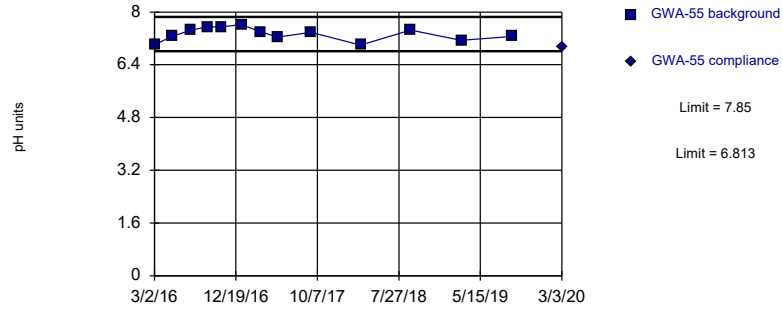
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
3/2/2016	7.51	
5/4/2016	7.68	
7/8/2016	7.7	
9/8/2016	7.71	
10/26/2016	7.6	
1/9/2017	7.81	
3/15/2017	7.74	
5/18/2017	7.39	
9/15/2017	7.61	
3/13/2018	7.39	
9/6/2018	7.66	
3/7/2019	7.55	
9/5/2019	7.54	
3/3/2020		7.59

Within Limits

Prediction Limit
Intrawell Parametric

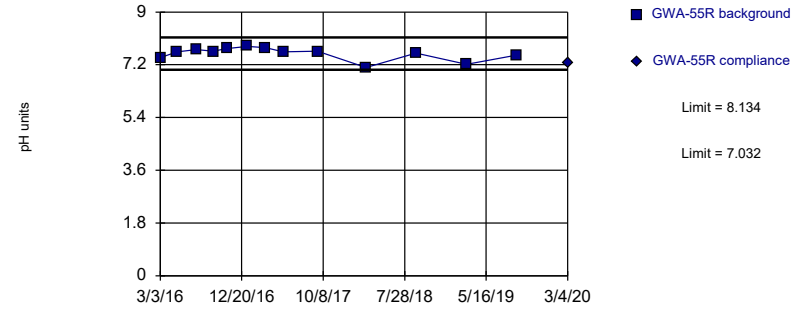


Background Data Summary: Mean=7.332, Std. Dev.=0.2005, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9445, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

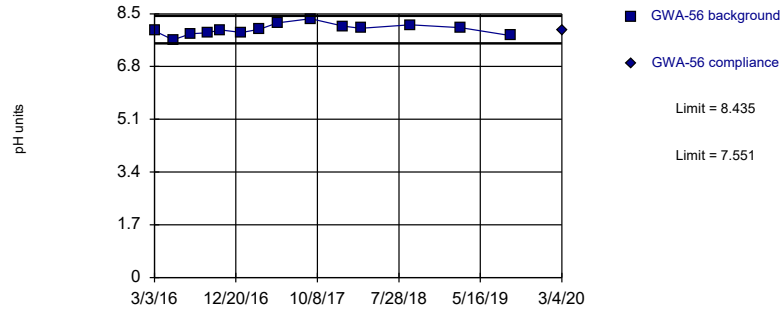


Background Data Summary: Mean=7.583, Std. Dev.=0.2129, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

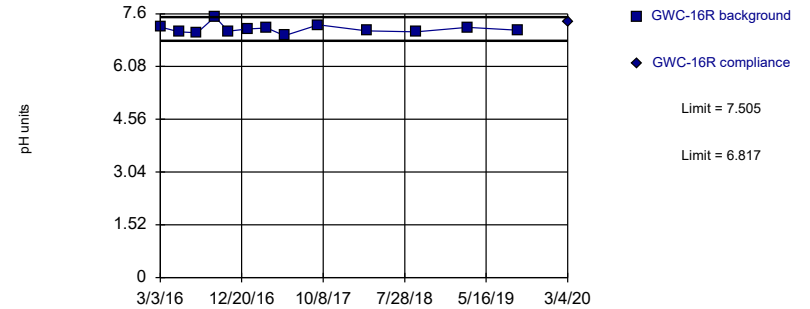


Background Data Summary: Mean=7.993, Std. Dev.=0.1746, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9953, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.161, Std. Dev.=0.1329, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8906, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:02 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
3/2/2016	7.01	
5/3/2016	7.26	
7/11/2016	7.45	
9/9/2016	7.55	
10/26/2016	7.55	
1/9/2017	7.62	
3/16/2017	7.4	
5/18/2017	7.24	
9/15/2017	7.38	
3/12/2018	7	
9/7/2018	7.45	
3/8/2019	7.14	
9/5/2019	7.26	
3/3/2020		6.95

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
3/3/2016	7.44	
5/3/2016	7.64	
7/11/2016	7.72	
9/9/2016	7.66	
10/27/2016	7.75	
1/9/2017	7.83	
3/16/2017	7.78	
5/18/2017	7.64	
9/18/2017	7.66	
3/12/2018	7.11	
9/7/2018	7.6	
3/7/2019	7.22	
9/5/2019	7.53	
3/4/2020		7.27

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
3/3/2016	7.95 (D)	
5/9/2016	7.66	
7/11/2016	7.86	
9/9/2016	7.89	
10/26/2016	7.98	
1/9/2017	7.9	
3/15/2017	8	
5/18/2017	8.21	
9/15/2017	8.34	
1/9/2018	8.1 (Y)	
3/13/2018	8.03	
9/7/2018	8.14	
3/7/2019	8.05	
9/4/2019	7.79	
3/4/2020		7.95

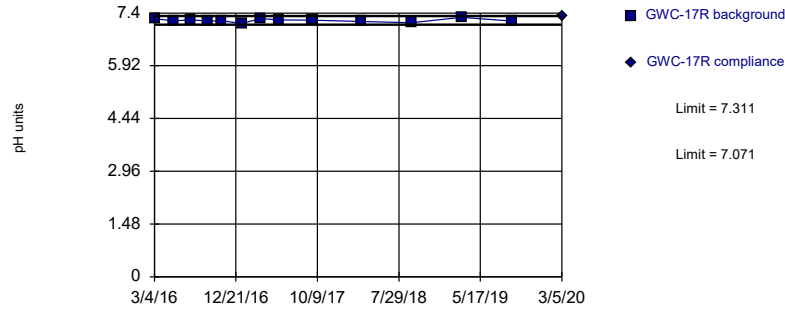
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
3/3/2016	7.22 (D)	
5/10/2016	7.08	
7/13/2016	7.05	
9/15/2016	7.51	
11/2/2016	7.1	
1/11/2017	7.16	
3/20/2017	7.19	
5/23/2017	6.97	
9/21/2017	7.28	
3/14/2018	7.11	
9/7/2018	7.08	
3/11/2019	7.21	
9/9/2019	7.13	
3/4/2020		7.37

Within Limits

Prediction Limit
Intrawell Parametric

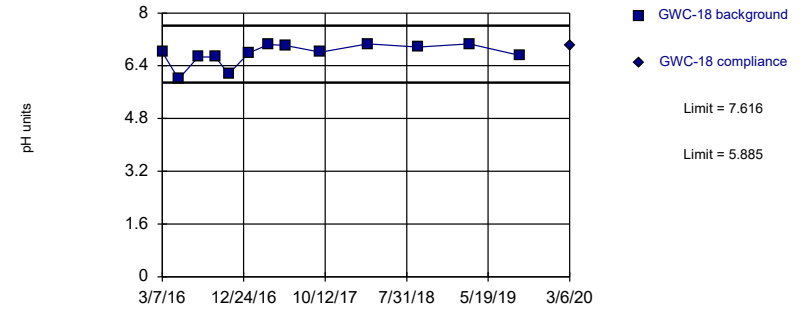


Background Data Summary: Mean=7.191, Std. Dev.=0.04645, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9798, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

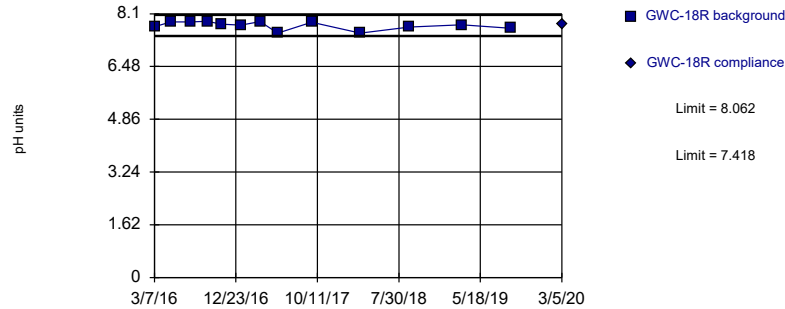


Background Data Summary: Mean=6.751, Std. Dev.=0.3346, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8196, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

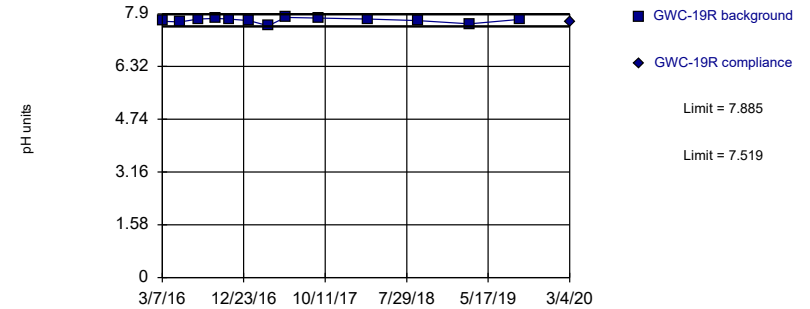


Background Data Summary: Mean=7.74, Std. Dev.=0.1244, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8701, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.702, Std. Dev.=0.07073, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9048, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
3/4/2016	7.24	
5/10/2016	7.18	
7/14/2016	7.21	
9/13/2016	7.17	
11/1/2016	7.18	
1/11/2017	7.11	
3/21/2017	7.24	
5/23/2017	7.21	
9/22/2017	7.2	
3/14/2018	7.16	
9/11/2018	7.13	
3/12/2019	7.28	
9/10/2019	7.17	
3/5/2020		7.3

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
3/7/2016	6.81	
5/5/2016	6	
7/13/2016	6.67	
9/13/2016	6.67	
10/31/2016	6.15	
1/12/2017	6.79	
3/23/2017	7.04	
5/23/2017	7.02	
9/25/2017	6.81	
3/14/2018	7.06	
9/11/2018	6.97	
3/12/2019	7.06	
9/9/2019	6.71	
3/6/2020		7.01

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
3/7/2016	7.7	
5/5/2016	7.85	
7/13/2016	7.85	
9/12/2016	7.87	
11/1/2016	7.78	
1/11/2017	7.75	
3/20/2017	7.86	
5/22/2017	7.51	
9/21/2017	7.84	
3/14/2018	7.51	
9/7/2018	7.69	
3/12/2019	7.76	
9/6/2019	7.65	
3/5/2020		7.77

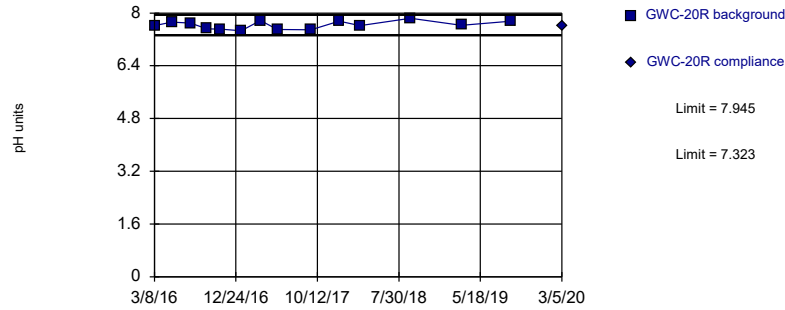
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
3/7/2016	7.68	
5/9/2016	7.66	
7/14/2016	7.74	
9/12/2016	7.76	
10/31/2016	7.74	
1/11/2017	7.69	
3/21/2017	7.54	
5/22/2017	7.79	
9/20/2017	7.77	
3/14/2018	7.74	
9/10/2018	7.69	
3/12/2019	7.6	
9/9/2019	7.73	
3/4/2020		7.65

Within Limits

Prediction Limit
Intrawell Parametric

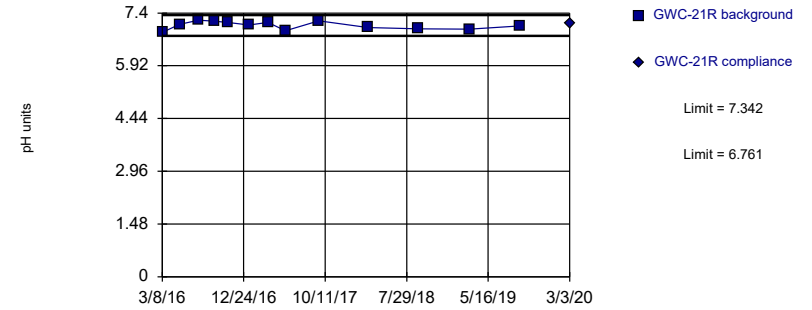


Background Data Summary: Mean=7.634, Std. Dev.=0.1228, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

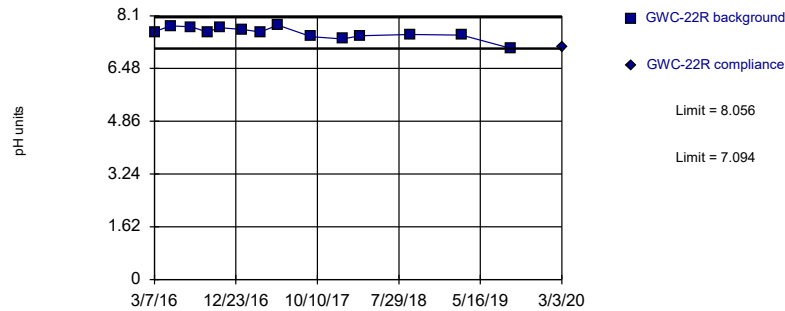


Background Data Summary: Mean=7.052, Std. Dev.=0.1123, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

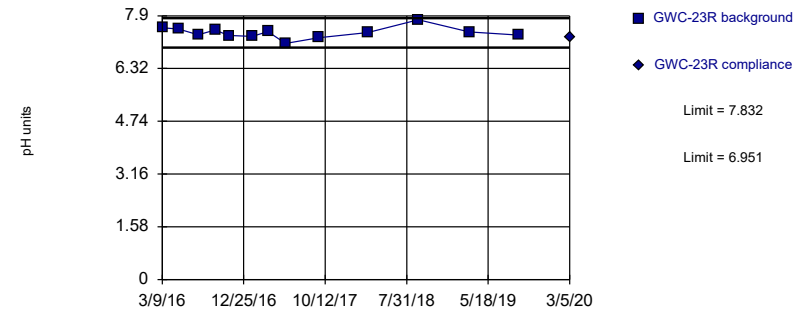


Background Data Summary: Mean=7.575, Std. Dev.=0.19, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9133, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.392, Std. Dev.=0.1702, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
3/8/2016	7.62	
5/9/2016	7.72	
7/14/2016	7.69	
9/12/2016	7.52	
10/31/2016	7.51	
1/12/2017	7.46	
3/22/2017	7.77	
5/22/2017	7.5	
9/19/2017	7.49	
12/29/2017	7.75 (Y)	
3/14/2018	7.62	
9/10/2018	7.84	
3/12/2019	7.63	
9/6/2019	7.75 (D)	
3/5/2020		7.6

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
3/8/2016	6.86	
5/9/2016	7.08	
7/15/2016	7.2	
9/9/2016	7.17	
10/27/2016	7.14	
1/12/2017	7.06	
3/21/2017	7.14	
5/23/2017	6.9	
9/19/2017	7.18	
3/14/2018	6.99	
9/10/2018	6.96	
3/11/2019	6.95	
9/6/2019	7.04	
3/3/2020		7.1

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
3/7/2016	7.61	
5/5/2016	7.79	
7/14/2016	7.76	
9/12/2016	7.6	
10/27/2016	7.73	
1/13/2017	7.68	
3/20/2017	7.6	
5/23/2017	7.81	
9/19/2017	7.46	
1/9/2018	7.39 (Y)	
3/13/2018	7.49	
9/7/2018	7.53	
3/11/2019	7.51	
9/5/2019	7.09	
3/3/2020		7.15

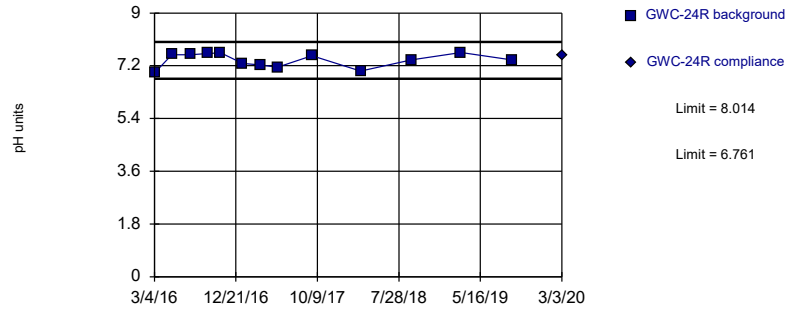
Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
3/9/2016	7.54	
5/6/2016	7.5	
7/15/2016	7.33	
9/14/2016	7.47	
11/1/2016	7.31	
1/25/2017	7.28	
3/22/2017	7.43	
5/24/2017	7.07	
9/21/2017	7.24	
3/14/2018	7.4	
9/11/2018	7.78	
3/12/2019	7.42	
9/6/2019	7.32	
3/5/2020		7.24

Within Limits

Prediction Limit
Intrawell Parametric

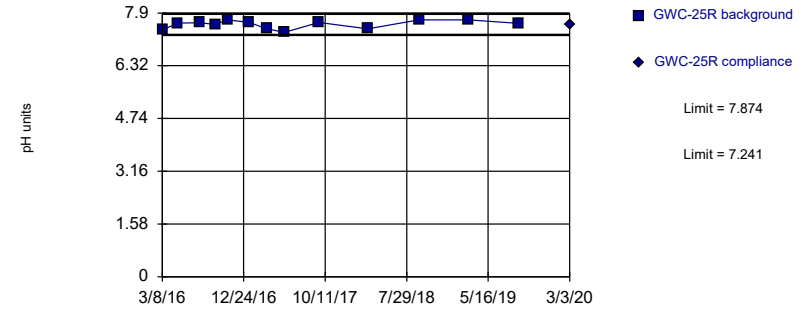


Background Data Summary: Mean=7.388, Std. Dev.=0.2421, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

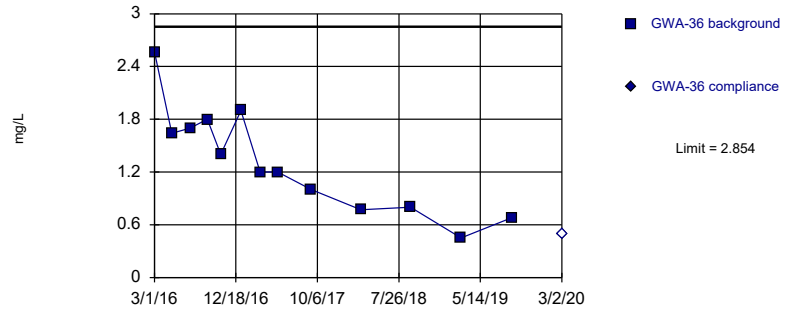


Background Data Summary: Mean=7.558, Std. Dev.=0.1224, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8787, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

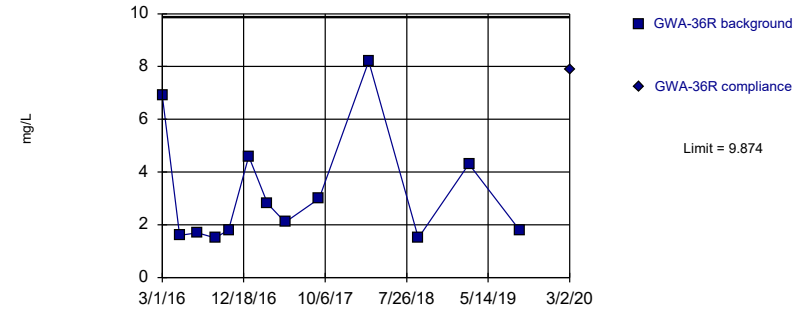


Background Data Summary: Mean=1.316, Std. Dev.=0.5945, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.713, Std. Dev.=0.5527, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.834, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
3/4/2016	6.95	
5/5/2016	7.58	
7/12/2016	7.58	
9/13/2016	7.62	
10/27/2016	7.64	
1/13/2017	7.28	
3/20/2017	7.23	
5/19/2017	7.15	
9/19/2017	7.54	
3/13/2018	7.02	
9/11/2018	7.4	
3/8/2019	7.65	
9/5/2019	7.4 (D)	
3/3/2020		7.55

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
3/8/2016	7.4	
5/4/2016	7.6	
7/18/2016	7.61	
9/13/2016	7.56	
10/27/2016	7.69	
1/13/2017	7.62	
3/16/2017	7.43	
5/19/2017	7.32	
9/19/2017	7.62	
3/13/2018	7.43	
9/11/2018	7.69	
3/8/2019	7.69	
9/5/2019	7.59	
3/3/2020		7.56

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
3/1/2016	2.5655	
5/2/2016	1.64	
7/7/2016	1.7	
9/7/2016	1.8	
10/25/2016	1.4	
1/5/2017	1.9 (J)	
3/15/2017	1.2	
5/17/2017	1.2	
9/15/2017	1	
3/12/2018	0.77 (J)	
9/6/2018	0.8 (J)	
3/6/2019	0.45 (J)	
9/4/2019	0.68 (J)	
3/2/2020		<1

Prediction Limit

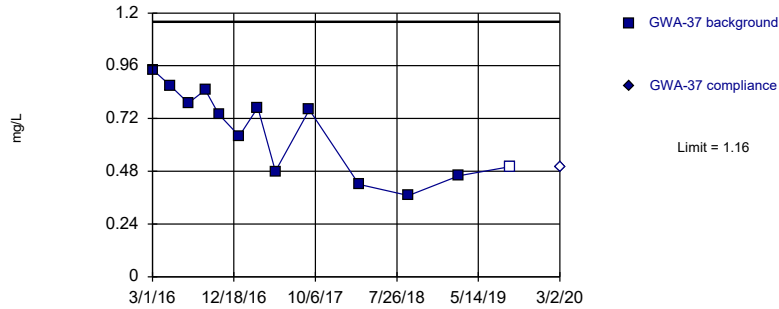
Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
3/1/2016	6.8929	
5/2/2016	1.6	
7/6/2016	1.7	
9/7/2016	1.5	
10/25/2016	1.8	
1/5/2017	4.6	
3/14/2017	2.8	
5/16/2017	2.1	
9/15/2017	3	
3/12/2018	8.2	
9/6/2018	1.5	
3/7/2019	4.3	
9/4/2019	1.8	
3/2/2020		7.9

Within Limit

Prediction Limit
Intrawell Parametric

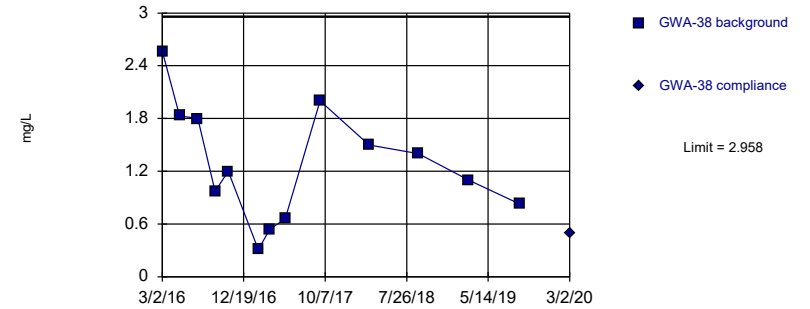


Background Data Summary: Mean=0.661, Std. Dev.=0.1927, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9182, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

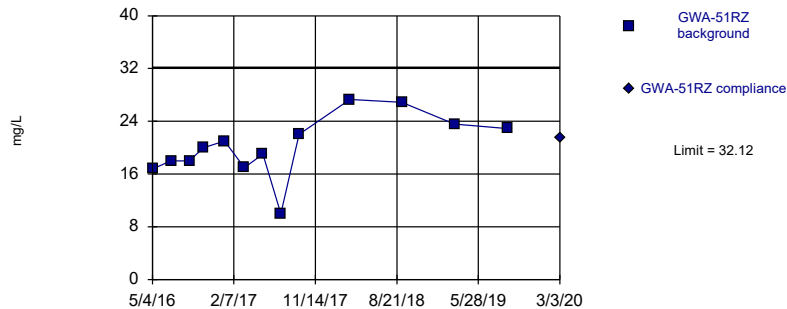


Background Data Summary: Mean=1.285, Std. Dev.=0.6468, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9792, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

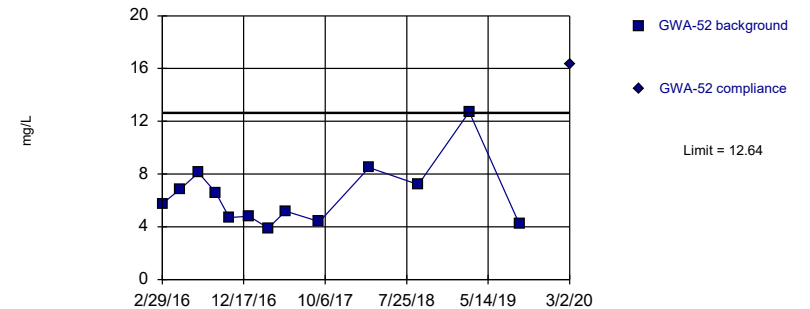


Background Data Summary: Mean=20.19, Std. Dev.=4.61, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.378, Std. Dev.=2.42, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8583, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
3/1/2016	0.9427 (J)	
5/3/2016	0.87 (J)	
7/8/2016	0.79 (J)	
9/7/2016	0.85 (J)	
10/25/2016	0.74 (J)	
1/6/2017	0.64 (J)	
3/14/2017	0.77 (J)	
5/16/2017	0.48 (J)	
9/15/2017	0.76 (J)	
3/12/2018	0.42 (J)	
9/6/2018	0.37 (J)	
3/6/2019	0.46 (J)	
9/4/2019	<1	
3/2/2020		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
3/2/2016	2.5669	
5/3/2016	1.83	
7/7/2016	1.8	
9/8/2016	0.97 (J)	
10/25/2016	1.2	
2/9/2017	0.31 (J)	
3/23/2017	0.54 (J)	
5/17/2017	0.66 (J)	
9/19/2017	2	
3/13/2018	1.5	
9/6/2018	1.4	
3/7/2019	1.1	
9/4/2019	0.83 (J)	
3/2/2020		0.5 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/4/2016	16.8 (D)	
7/7/2016	18 (D)	
9/8/2016	18 (D)	
10/26/2016	20 (D)	
1/6/2017	21 (D)	
3/15/2017	17 (D)	
5/18/2017	19 (D)	
7/19/2017	10 (D)	
9/19/2017	22 (D)	
3/13/2018	27.3	
9/7/2018	26.9	
3/8/2019	23.6	
9/4/2019	22.9	
3/3/2020		21.5

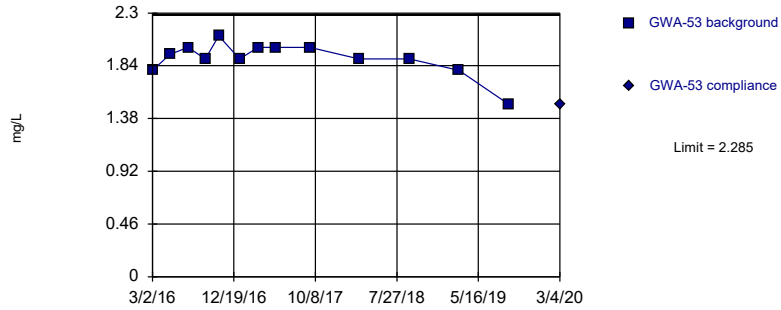
Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
2/29/2016	5.7396	
5/4/2016	6.87	
7/8/2016	8.1	
9/8/2016	6.6	
10/26/2016	4.7	
1/6/2017	4.8	
3/15/2017	3.9	
5/17/2017	5.2	
9/15/2017	4.4	
3/13/2018	8.5	
9/6/2018	7.2	
3/7/2019	12.7	
9/4/2019	4.2	
3/2/2020		16.3

Within Limit

Prediction Limit
Intrawell Parametric

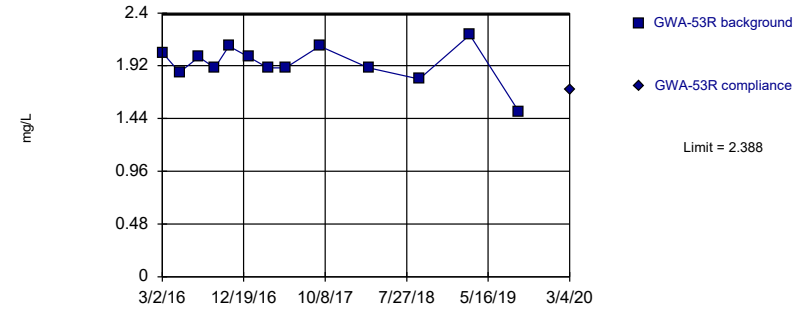


Background Data Summary: Mean=1.903, Std. Dev.=0.1477, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8328, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

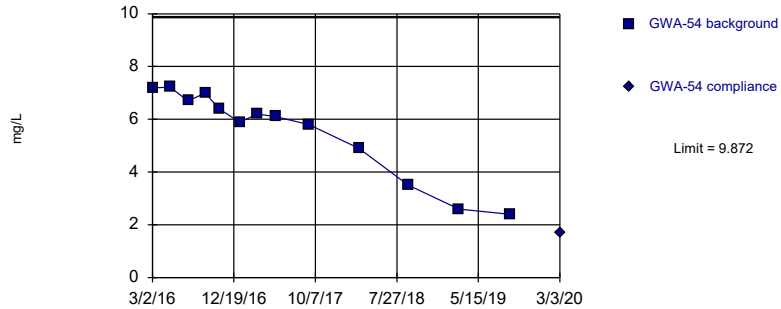


Background Data Summary: Mean=1.939, Std. Dev.=0.1737, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9072, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

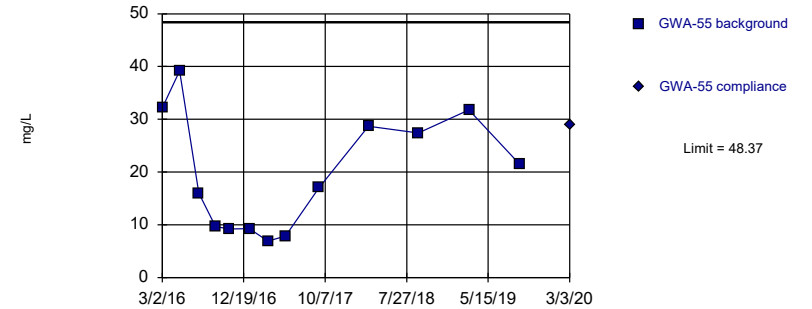


Background Data Summary: Mean=5.531, Std. Dev.=1.678, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.845, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=19.75, Std. Dev.=11.06, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9017, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
3/2/2016	1.799	
5/3/2016	1.94	
7/8/2016	2	
9/8/2016	1.9	
10/26/2016	2.1	
1/9/2017	1.9	
3/16/2017	2	
5/19/2017	2	
9/19/2017	2	
3/13/2018	1.9	
9/11/2018	1.9	
3/8/2019	1.8	
9/5/2019	1.5	
3/4/2020		1.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
3/2/2016	2.0407	
5/3/2016	1.86	
7/11/2016	2	
9/7/2016	1.9	
10/27/2016	2.1	
1/6/2017	2	
3/16/2017	1.9	
5/19/2017	1.9	
9/19/2017	2.1	
3/13/2018	1.9	
9/11/2018	1.8	
3/12/2019	2.2	
9/5/2019	1.5	
3/4/2020		1.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
3/2/2016	7.1892	
5/4/2016	7.22	
7/8/2016	6.7	
9/8/2016	7	
10/26/2016	6.4	
1/9/2017	5.9	
3/15/2017	6.2	
5/18/2017	6.1	
9/15/2017	5.8	
3/13/2018	4.9	
9/6/2018	3.5	
3/7/2019	2.6	
9/5/2019	2.4	
3/3/2020		1.7

Prediction Limit

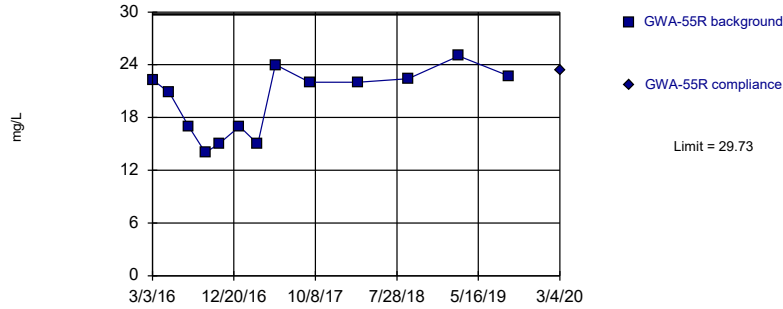
Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
3/2/2016	32.178	
5/3/2016	39.2	
7/11/2016	16	
9/9/2016	9.7	
10/26/2016	9.2	
1/9/2017	9.3	
3/16/2017	6.9	
5/18/2017	7.9	
9/15/2017	17	
3/12/2018	28.7	
9/7/2018	27.4	
3/8/2019	31.8	
9/5/2019	21.5	
3/3/2020		29

Within Limit

Prediction Limit
Intrawell Parametric

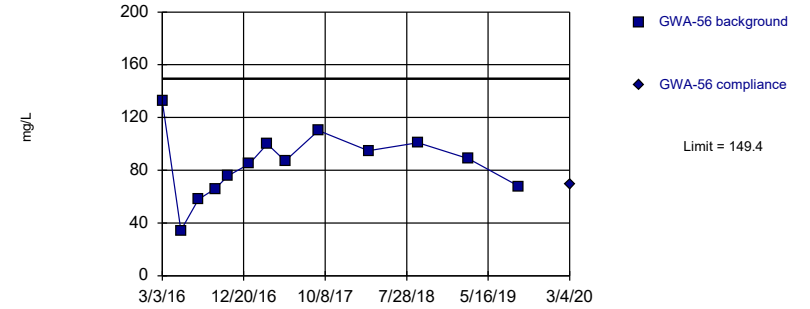


Background Data Summary: Mean=19.94, Std. Dev.=3.786, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8818, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

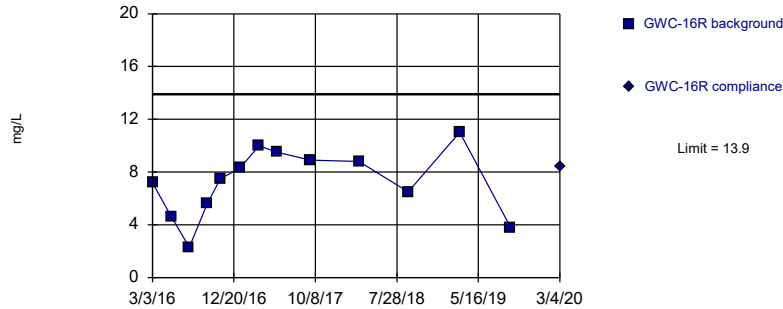


Background Data Summary: Mean=84.7, Std. Dev.=25.01, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9873, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

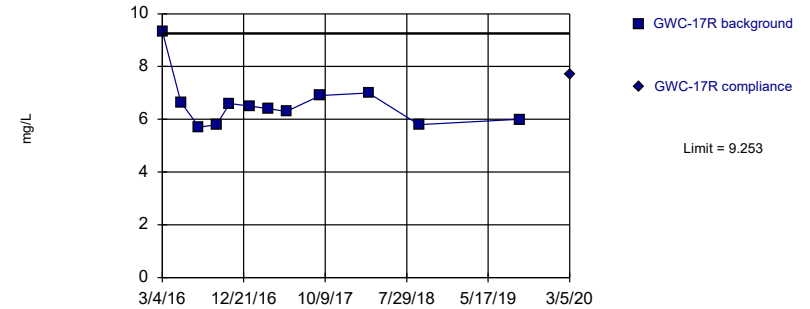


Background Data Summary: Mean=7.229, Std. Dev.=2.577, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.876, Std. Dev.=0.1321, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.812, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
3/3/2016	22.316	
5/3/2016	20.8	
7/11/2016	17	
9/9/2016	14	
10/27/2016	15	
1/9/2017	17	
3/16/2017	15	
5/18/2017	24	
9/18/2017	22	
3/12/2018	22	
9/7/2018	22.4	
3/7/2019	25	
9/5/2019	22.7	
3/4/2020		23.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
3/3/2016	132.4615	
5/9/2016	34.3	
7/11/2016	58	
9/9/2016	66	
10/26/2016	76	
1/9/2017	85	
3/15/2017	100	
5/18/2017	87	
9/15/2017	110	
3/13/2018	94.8	
9/7/2018	101	
3/7/2019	88.7	
9/4/2019	67.8	
3/4/2020		69.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
3/3/2016	7.1809 (D)	
5/10/2016	4.6	
7/13/2016	2.3	
9/15/2016	5.6	
11/2/2016	7.5	
1/11/2017	8.3	
3/20/2017	10	
5/23/2017	9.5	
9/21/2017	8.9	
3/14/2018	8.8	
9/7/2018	6.5	
3/11/2019	11	
9/9/2019	3.8	
3/4/2020		8.4

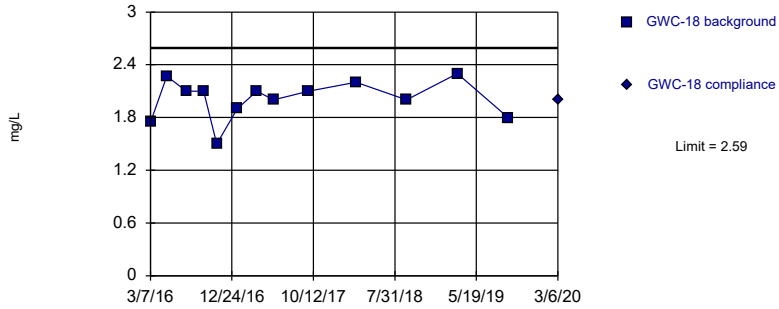
Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
3/4/2016	9.3417	
5/10/2016	6.65	
7/14/2016	5.7	
9/14/2016	5.8	
11/1/2016	6.6	
1/11/2017	6.5	
3/21/2017	6.4	
5/23/2017	6.3	
9/22/2017	6.9	
3/14/2018	7	
9/11/2018	5.8	
3/12/2019	25.9 (O)	
9/10/2019	6	
3/5/2020		7.7

Within Limit

Prediction Limit
Intrawell Parametric

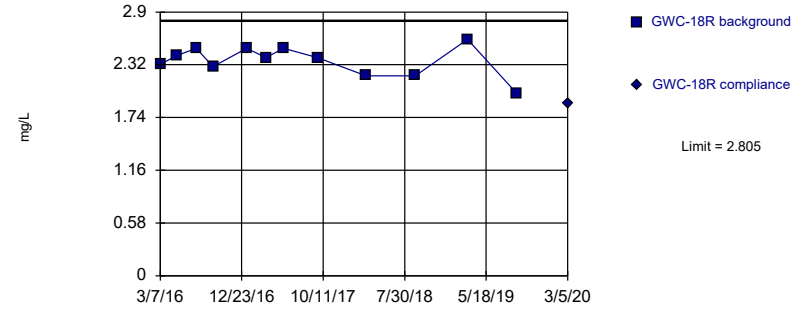


Background Data Summary: Mean=2.009, Std. Dev.=0.2247, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9275, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

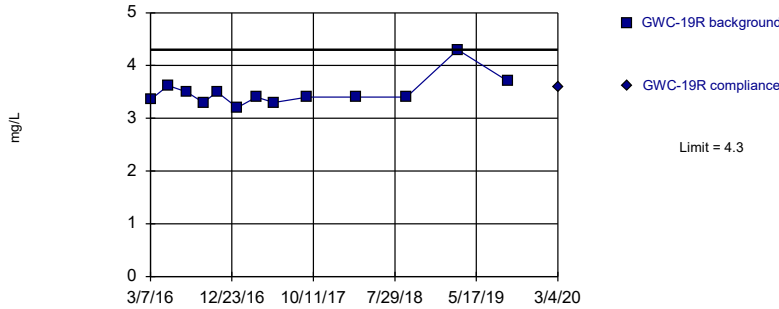


Background Data Summary: Mean=2.362, Std. Dev.=0.1675, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9413, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

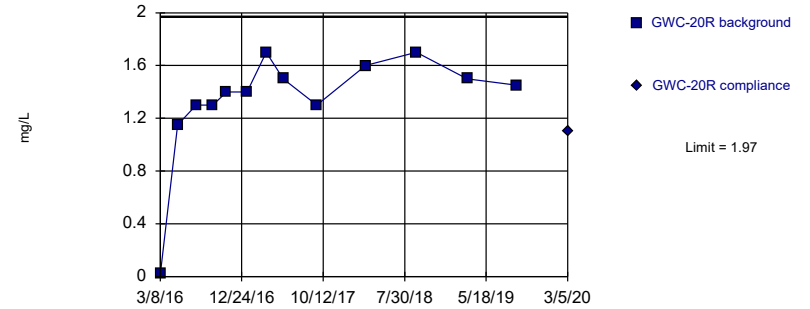


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.943, Std. Dev.=0.7494, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
3/7/2016	1.7468	
5/5/2016	2.27	
7/13/2016	2.1	
9/13/2016	2.1	
10/31/2016	1.5	
1/12/2017	1.9	
3/23/2017	2.1	
5/23/2017	2	
9/25/2017	2.1	
3/14/2018	2.2	
9/11/2018	2	
3/12/2019	2.3	
9/9/2019	1.8	
3/6/2020		2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
3/7/2016	2.3258	
5/5/2016	2.42	
7/13/2016	2.5	
9/12/2016	2.3	
1/11/2017	2.5	
3/20/2017	2.4	
5/22/2017	2.5	
9/21/2017	2.4	
3/14/2018	2.2	
9/7/2018	2.2	
3/12/2019	2.6	
9/6/2019	2	
3/5/2020		1.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
3/7/2016	3.3556	
5/9/2016	3.62	
7/14/2016	3.5	
9/12/2016	3.3	
10/31/2016	3.5	
1/11/2017	3.2	
3/21/2017	3.4	
5/22/2017	3.3	
9/20/2017	3.4	
3/14/2018	3.4	
9/10/2018	3.4	
3/12/2019	4.3	
9/9/2019	3.7	
3/4/2020		3.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
3/8/2016	0.0196 (J)	
5/9/2016	1.15	
7/14/2016	1.3	
9/12/2016	1.3	
10/31/2016	1.4	
1/12/2017	1.4	
3/22/2017	1.7	
5/22/2017	1.5	
9/19/2017	1.3	
3/14/2018	1.6	
9/10/2018	1.7	
3/12/2019	1.5	
9/6/2019	1.45 (D)	
3/5/2020		1.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
3/8/2016	1.3858	
5/9/2016	2.94	
7/15/2016	3	
9/9/2016	3.2	
10/27/2016	3.6	
1/12/2017	3.9	
3/21/2017	4.8	
5/23/2017	5.4	
9/19/2017	5.6	
3/14/2018	<1	
9/10/2018	4.8	
3/11/2019	3.4	
9/6/2019	6	
3/3/2020		11.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
3/7/2016	2.1008	
5/5/2016	2.16	
7/14/2016	2.3	
10/27/2016	2.3	
1/13/2017	2.3	
3/20/2017	2.4	
5/23/2017	2.4	
9/19/2017	2.2	
3/13/2018	2.4	
9/7/2018	1.8	
3/11/2019	2	
9/5/2019	1.7	
3/3/2020		1.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
3/9/2016	26.4322	
5/6/2016	17.7	
7/15/2016	12	
9/14/2016	12	
11/1/2016	10	
1/25/2017	8.2	
3/22/2017	13	
5/24/2017	10	
9/21/2017	16	
3/14/2018	14	
9/11/2018	14.9	
3/12/2019	17.7	
9/6/2019	9.5	
3/5/2020		10.8

Prediction Limit

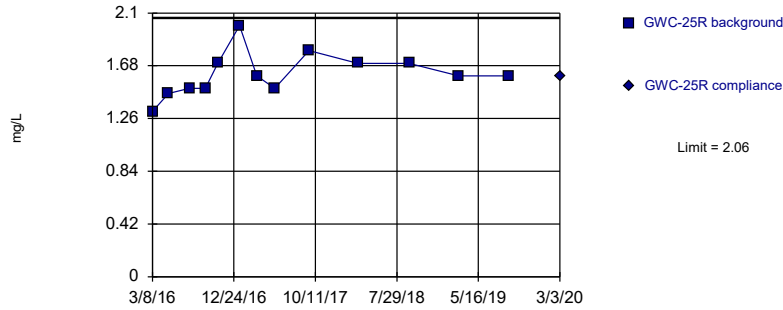
Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
3/4/2016	1.0816	
5/5/2016	11.3	
7/12/2016	8.8	
9/13/2016	5.4	
10/27/2016	9.9	
1/13/2017	7.8	
3/20/2017	2.3	
5/19/2017	2.4	
9/19/2017	2.3	
3/13/2018	1.4	
9/11/2018	1.7	
3/8/2019	1.9	
9/5/2019	1.8 (D)	
3/3/2020		2

Within Limit

Prediction Limit
Intrawell Parametric

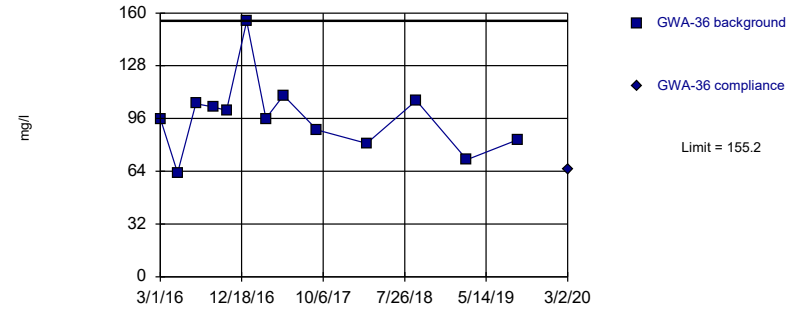


Background Data Summary: Mean=1.614, Std. Dev.=0.1727, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9529, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

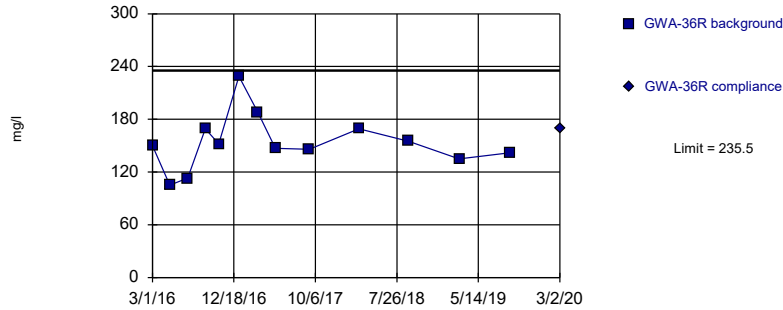


Background Data Summary: Mean=96.92, Std. Dev.=22.54, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9004, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



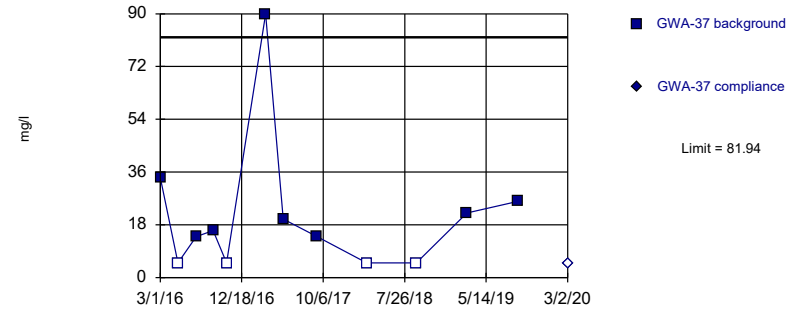
Background Data Summary: Mean=153.8, Std. Dev.=31.56, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9305, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=4.428, Std. Dev.=1.75, n=12, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8341, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
3/8/2016	1.3157	
5/4/2016	1.46	
7/18/2016	1.5	
9/13/2016	1.5	
10/27/2016	1.7	
1/13/2017	2	
3/16/2017	1.6	
5/19/2017	1.5	
9/19/2017	1.8	
3/13/2018	1.7	
9/11/2018	1.7	
3/8/2019	1.6	
9/5/2019	1.6	
3/3/2020		1.6

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36	GWA-36
3/1/2016	96 (D)	
5/2/2016	63 (D)	
7/7/2016	105 (D)	
9/7/2016	103 (D)	
10/25/2016	101 (D)	
1/5/2017	155	
3/15/2017	96	
5/17/2017	110	
9/15/2017	89	
3/12/2018	81	
9/6/2018	107	
3/6/2019	71 (J)	
9/4/2019	83	
3/2/2020		65

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-36R	GWA-36R
3/1/2016	150 (D)	
5/2/2016	105 (D)	
7/6/2016	113 (D)	
9/7/2016	169 (D)	
10/25/2016	152 (D)	
1/5/2017	229	
3/14/2017	188	
5/16/2017	147	
9/15/2017	146	
3/12/2018	169	
9/6/2018	155	
3/7/2019	135	
9/4/2019	142	
3/2/2020		170

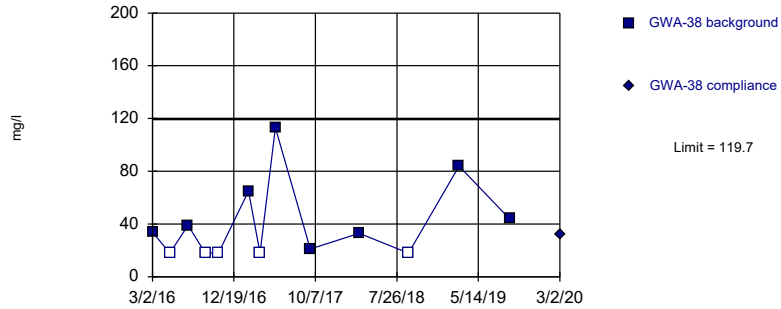
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-37	GWA-37
3/1/2016	34 (D)	
5/3/2016	<10 (D)	
7/8/2016	14 (JD)	
9/7/2016	16 (JD)	
10/25/2016	<10 (D)	
3/14/2017	90	
5/16/2017	20 (J)	
9/15/2017	14 (J)	
3/12/2018	<10	
9/6/2018	<10	
3/6/2019	22 (J)	
9/4/2019	26	
3/2/2020		<10

Within Limit

Prediction Limit
Intrawell Parametric

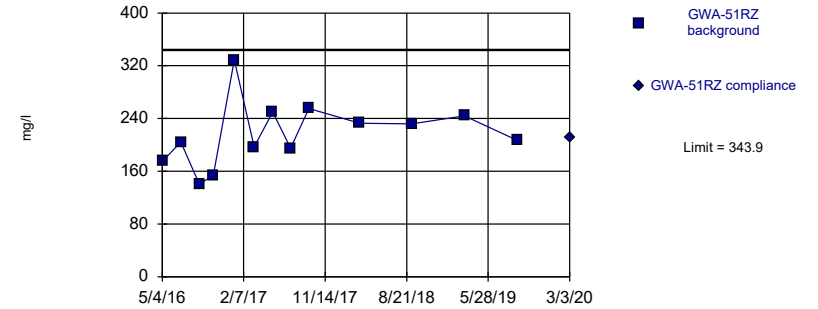


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=6.448, Std. Dev.=1.736, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8299, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

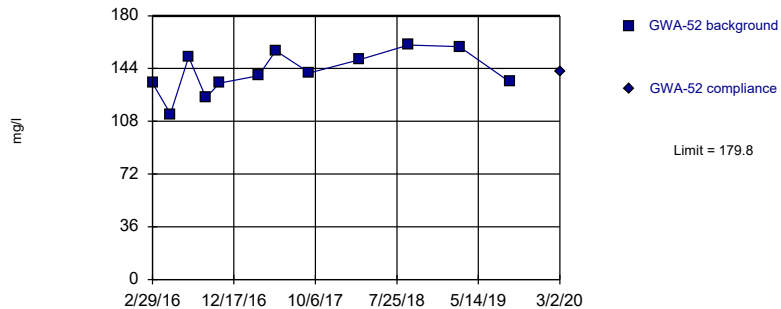


Background Data Summary: Mean=216.5, Std. Dev.=49.22, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

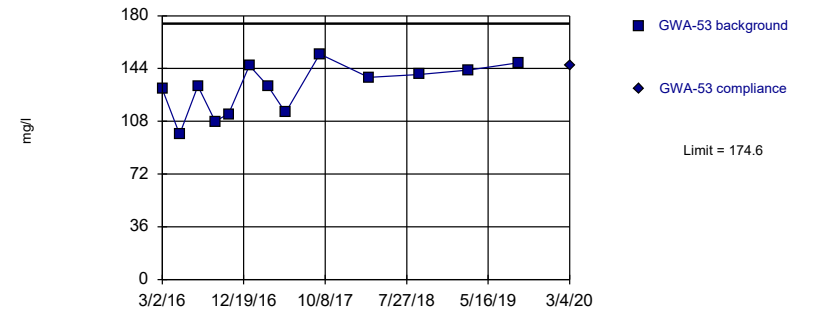


Background Data Summary: Mean=141.4, Std. Dev.=14.53, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=130.5, Std. Dev.=17.04, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-38	GWA-38
3/2/2016	34 (D)	
5/3/2016	<36 (D)	
7/7/2016	39 (D)	
9/8/2016	<36 (D)	
10/25/2016	<36 (D)	
2/9/2017	65	
3/23/2017	<36	
5/17/2017	113	
9/19/2017	21 (J)	
3/13/2018	33	
9/6/2018	<36	
3/7/2019	84	
9/4/2019	44	
3/2/2020		32

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-51RZ	GWA-51RZ
5/4/2016	175 (D)	
7/7/2016	204 (D)	
9/8/2016	141 (D)	
10/26/2016	153 (D)	
1/6/2017	329 (D)	
3/15/2017	197 (D)	
5/18/2017	250 (D)	
7/19/2017	195 (D)	
9/19/2017	255 (D)	
3/13/2018	233	
9/7/2018	232	
3/8/2019	244	
9/4/2019	207	
3/3/2020		211

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-52	GWA-52
2/29/2016	134 (D)	
5/4/2016	113 (D)	
7/8/2016	152 (D)	
9/8/2016	124 (D)	
10/26/2016	134 (D)	
3/15/2017	139	
5/17/2017	156	
9/15/2017	141	
3/13/2018	150	
9/6/2018	160	
3/7/2019	159	
9/4/2019	135	
3/2/2020		142

Prediction Limit

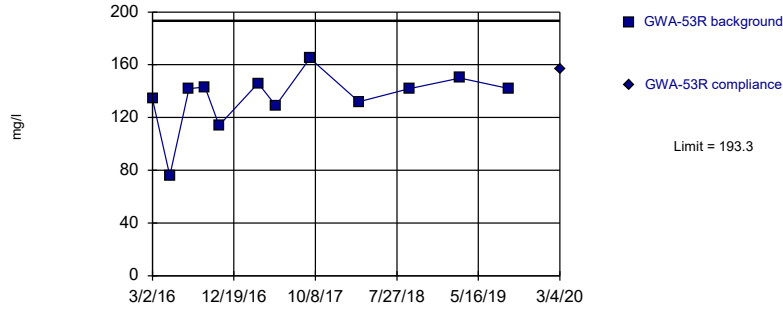
Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53	GWA-53
3/2/2016	130 (D)	
5/3/2016	99 (D)	
7/8/2016	132 (D)	
9/8/2016	108 (D)	
10/26/2016	113 (D)	
1/9/2017	146	
3/16/2017	132	
5/19/2017	114	
9/19/2017	154	
3/13/2018	138	
9/11/2018	140	
3/8/2019	143	
9/5/2019	148	
3/4/2020		146

Within Limit

Prediction Limit
Intrawell Parametric

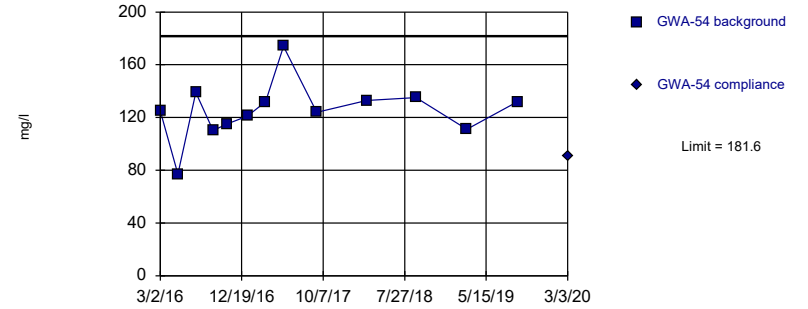


Background Data Summary: Mean=134.6, Std. Dev.=22.2, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.832, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

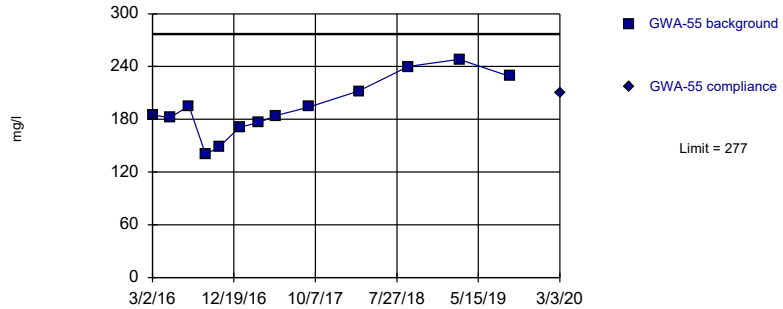


Background Data Summary: Mean=125.2, Std. Dev.=21.8, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9126, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

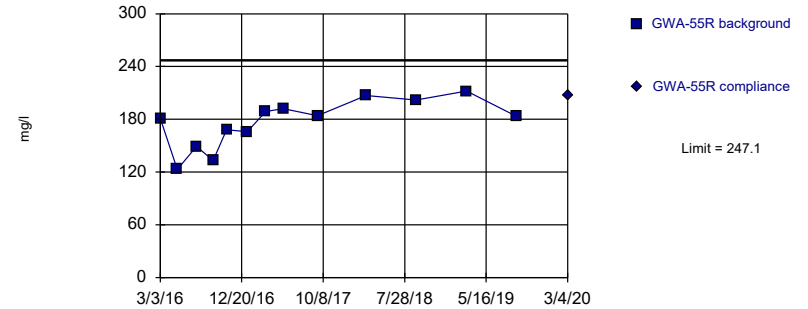


Background Data Summary: Mean=192.6, Std. Dev.=32.62, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9576, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=176.1, Std. Dev.=27.46, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-53R	GWA-53R
3/2/2016	134 (D)	
5/3/2016	76 (D)	
7/11/2016	142 (D)	
9/7/2016	143 (D)	
10/27/2016	114 (D)	
3/16/2017	146	
5/19/2017	129	
9/19/2017	165	
3/13/2018	132	
9/11/2018	142	
3/12/2019	150 (J)	
9/5/2019	142	
3/4/2020		157

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-54	GWA-54
3/2/2016	125 (D)	
5/4/2016	77 (D)	
7/8/2016	139 (D)	
9/8/2016	110 (D)	
10/26/2016	115 (D)	
1/9/2017	121	
3/15/2017	132	
5/18/2017	174	
9/15/2017	124	
3/13/2018	133	
9/6/2018	135	
3/7/2019	111	
9/5/2019	132	
3/3/2020		91

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55	GWA-55
3/2/2016	185 (D)	
5/3/2016	182 (D)	
7/11/2016	195 (D)	
9/9/2016	140 (D)	
10/26/2016	148 (D)	
1/9/2017	171	
3/16/2017	176	
5/18/2017	184	
9/15/2017	194	
3/12/2018	212	
9/7/2018	240	
3/8/2019	248	
9/5/2019	229	
3/3/2020		210

Prediction Limit

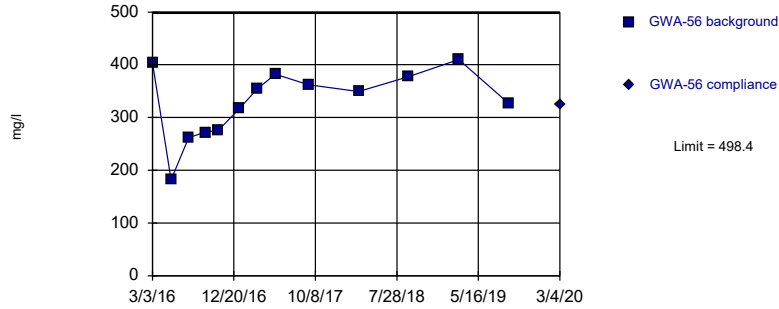
Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-55R	GWA-55R
3/3/2016	181 (D)	
5/3/2016	123 (D)	
7/11/2016	149 (D)	
9/9/2016	133 (D)	
10/27/2016	168 (D)	
1/9/2017	166	
3/16/2017	189	
5/18/2017	192	
9/18/2017	184	
3/12/2018	207	
9/7/2018	202	
3/7/2019	212	
9/5/2019	183	
3/4/2020		207

Within Limit

Prediction Limit
Intrawell Parametric

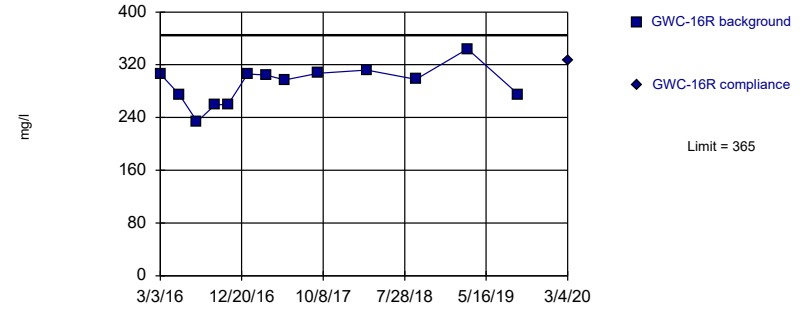


Background Data Summary: Mean=328.7, Std. Dev.=65.59, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.932, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

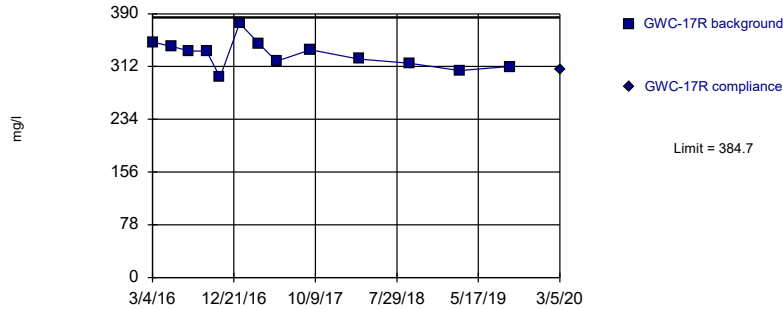


Background Data Summary: Mean=290.5, Std. Dev.=28.8, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

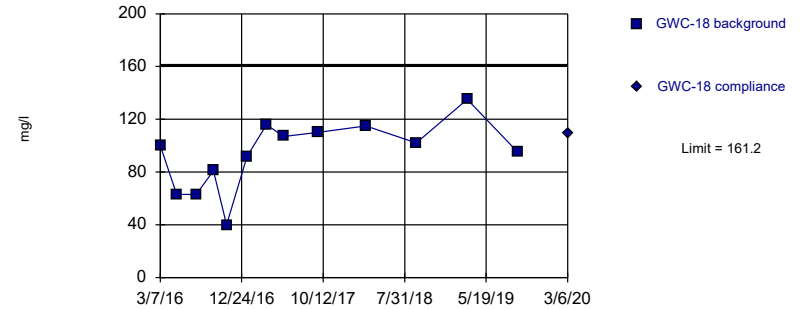


Background Data Summary: Mean=330.2, Std. Dev.=21.04, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.971, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=93.77, Std. Dev.=26.05, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWA-56	GWA-56
3/3/2016	403 (D)	
5/9/2016	182 (D)	
7/11/2016	262 (D)	
9/9/2016	272 (D)	
10/26/2016	276 (D)	
1/9/2017	317	
3/15/2017	355	
5/18/2017	382	
9/15/2017	362	
3/13/2018	349	
9/7/2018	377	
3/7/2019	410	
9/4/2019	326	
3/4/2020		325

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-16R	GWC-16R
3/3/2016	306 (D)	
5/10/2016	275 (D)	
7/13/2016	234 (D)	
9/15/2016	259 (D)	
11/2/2016	260 (D)	
1/11/2017	306	
3/20/2017	304	
5/23/2017	297	
9/21/2017	307	
3/14/2018	312	
9/7/2018	298	
3/11/2019	344	
9/9/2019	275	
3/4/2020		326

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-17R	GWC-17R
3/4/2016	348 (D)	
5/10/2016	342 (D)	
7/14/2016	335 (D)	
9/14/2016	335 (D)	
11/1/2016	296 (D)	
1/11/2017	376	
3/21/2017	346	
5/23/2017	320	
9/22/2017	337	
3/14/2018	323	
9/11/2018	317	
3/12/2019	306	
9/10/2019	312	
3/5/2020		307

Prediction Limit

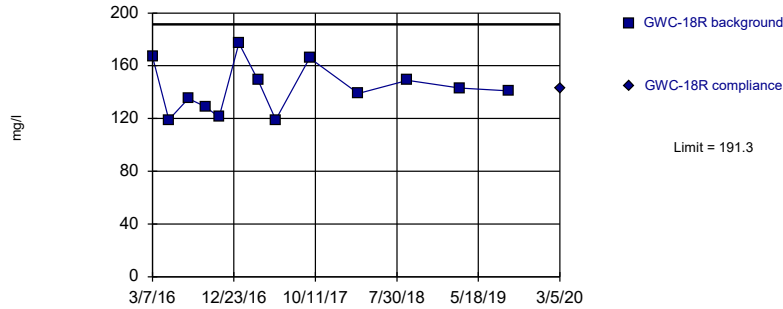
Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - Intravel

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18	GWC-18
3/7/2016	100 (D)	
5/5/2016	63 (D)	
7/13/2016	63 (D)	
9/13/2016	81 (D)	
10/31/2016	40 (D)	
1/12/2017	92	
3/23/2017	116	
5/23/2017	107	
9/25/2017	110	
3/14/2018	115	
9/11/2018	102	
3/12/2019	135 (J)	
9/9/2019	95	
3/6/2020		109

Within Limit

Prediction Limit Intrawell Parametric

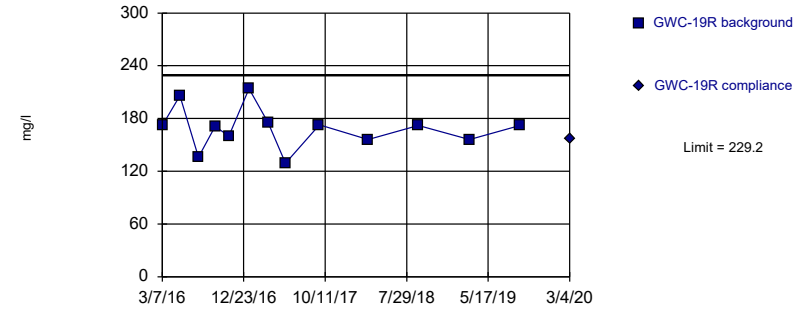


Background Data Summary: Mean=142.6, Std. Dev.=18.81, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Parametric

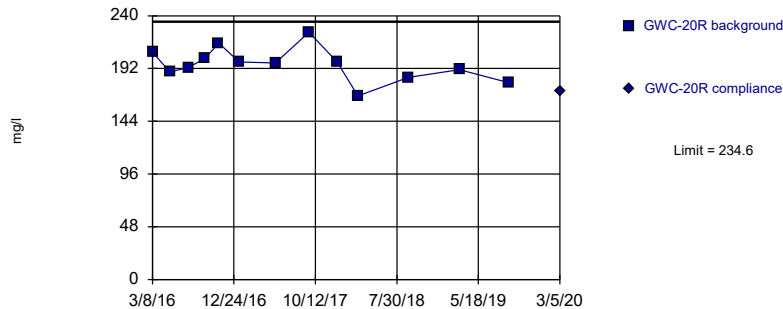


Background Data Summary: Mean=168.6, Std. Dev.=23.42, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9167, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Parametric

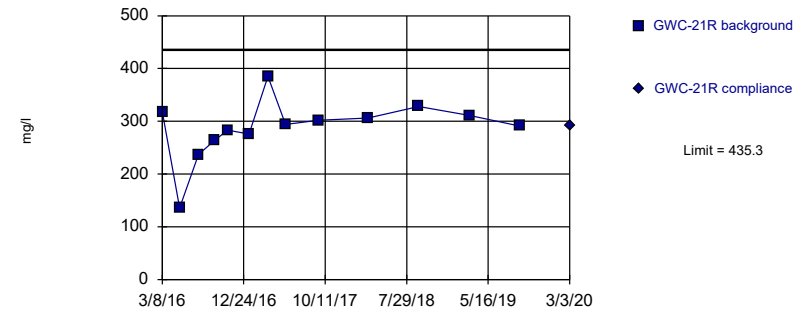


Background Data Summary: Mean=195.7, Std. Dev.=15.04, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9848, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=286.9, Std. Dev.=57.36, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8767, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-18R	GWC-18R
3/7/2016	167 (D)	
5/5/2016	119 (D)	
7/13/2016	135 (D)	
9/12/2016	129 (D)	
11/1/2016	121 (D)	
1/11/2017	177	
3/20/2017	149	
5/22/2017	119	
9/21/2017	166	
3/14/2018	139	
9/7/2018	149	
3/12/2019	143 (J)	
9/6/2019	141	
3/5/2020		143

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-19R	GWC-19R
3/7/2016	172 (D)	
5/9/2016	206 (D)	
7/14/2016	136 (D)	
9/12/2016	171 (D)	
10/31/2016	160 (D)	
1/11/2017	214	
3/21/2017	175 (J)	
5/22/2017	129	
9/20/2017	173	
3/14/2018	156	
9/10/2018	172	
3/12/2019	156 (J)	
9/9/2019	172	
3/4/2020		157

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-20R	GWC-20R
3/8/2016	207 (D)	
5/9/2016	189 (D)	
7/14/2016	193 (D)	
9/12/2016	201 (D)	
10/31/2016	215 (D)	
1/12/2017	198	
5/22/2017	197	
9/19/2017	225	
12/29/2017	198 (Y)	
3/14/2018	167	
9/10/2018	184	
3/12/2019	191 (J)	
9/6/2019	179	
3/5/2020		171

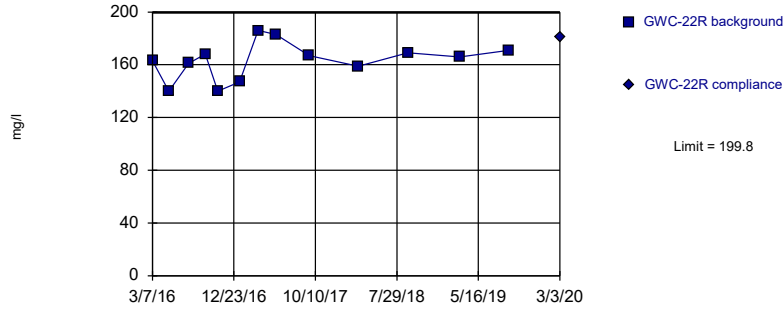
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-21R	GWC-21R
3/8/2016	318 (D)	
5/9/2016	136 (D)	
7/15/2016	237 (D)	
9/9/2016	263 (D)	
10/27/2016	283 (D)	
1/12/2017	276	
3/21/2017	385	
5/23/2017	294	
9/19/2017	302	
3/14/2018	306	
9/10/2018	328	
3/11/2019	311	
9/6/2019	291	
3/3/2020		292

Within Limit

Prediction Limit
Intrawell Parametric

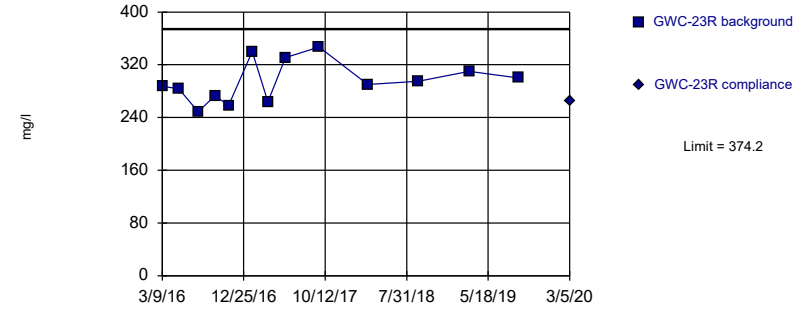


Background Data Summary: Mean=163.1, Std. Dev.=14.18, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9323, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

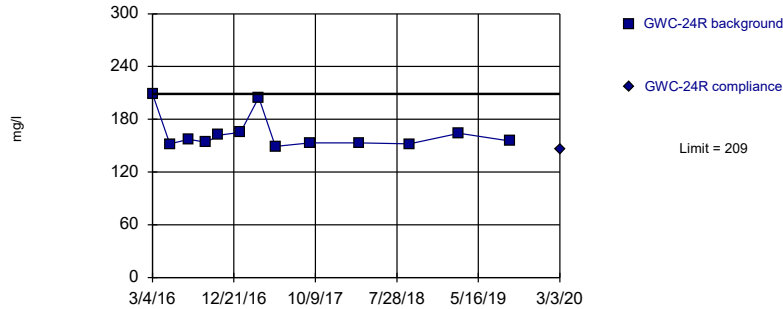


Background Data Summary: Mean=294.5, Std. Dev.=30.84, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.956, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

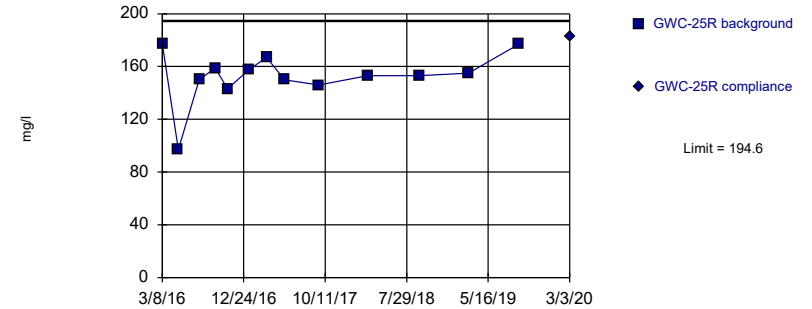


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=23678, Std. Dev.=5490, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.869, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 4/16/2020 1:03 PM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-22R	GWC-22R
3/7/2016	163 (D)	
5/5/2016	140 (D)	
7/14/2016	161 (D)	
9/12/2016	168 (D)	
10/27/2016	140 (D)	
1/13/2017	147 (J)	
3/20/2017	186	
5/23/2017	183	
9/19/2017	167	
3/13/2018	159	
9/7/2018	169	
3/11/2019	166	
9/5/2019	171	
3/3/2020		181

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-23R	GWC-23R
3/9/2016	287 (D)	
5/6/2016	284 (D)	
7/15/2016	249 (D)	
9/14/2016	273 (D)	
11/1/2016	258 (D)	
1/25/2017	340	
3/22/2017	264	
5/24/2017	331	
9/21/2017	347	
3/14/2018	290	
9/11/2018	295	
3/12/2019	310 (J)	
9/6/2019	300	
3/5/2020		265

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-24R	GWC-24R
3/4/2016	209 (D)	
5/5/2016	152 (D)	
7/12/2016	157 (D)	
9/13/2016	154 (D)	
10/27/2016	162 (D)	
1/13/2017	165	
3/20/2017	205 (J)	
5/19/2017	149	
9/19/2017	153	
3/13/2018	153	
9/11/2018	152	
3/8/2019	164	
9/5/2019	155.5 (D)	
3/3/2020		146

Prediction Limit

Constituent: T Total Dissolved Solids (mg/l) Analysis Run 4/16/2020 1:05 PM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

	GWC-25R	GWC-25R
3/8/2016	177 (D)	
5/4/2016	97 (D)	
7/18/2016	150 (D)	
9/13/2016	159 (D)	
10/27/2016	143 (D)	
1/13/2017	158	
3/16/2017	167	
5/19/2017	150	
9/19/2017	146	
3/13/2018	153	
9/11/2018	153	
3/8/2019	155	
9/5/2019	177	
3/3/2020		183

FIGURE G.

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 4/15/2020, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Calcium (mg/L)	GWC-16R	48.7	n/a	3/4/2020	60.6	Yes	168	n/a	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-17R	48.7	n/a	3/5/2020	71.4	Yes	168	n/a	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-21R	48.7	n/a	3/3/2020	70.2	Yes	168	n/a	n/a	0	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-23R	48.7	n/a	3/5/2020	63.7	Yes	168	n/a	n/a	0	n/a	0.00007003	NP (normality) 1 of 2

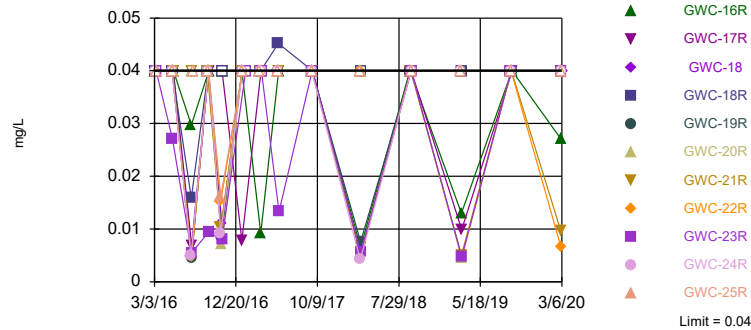
Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 4/15/2020, 10:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-16R	0.04	n/a	3/4/2020	0.027	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.04	n/a	3/6/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.04	n/a	3/4/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.04	n/a	3/3/2020	0.0096	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.04	n/a	3/3/2020	0.0066	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.04	n/a	3/5/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.04	n/a	3/3/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.04	n/a	3/3/2020	0.04ND	No	168	n/a	n/a	n/a	64.88	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-16R	48.7	n/a	3/4/2020	60.6	Yes	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-17R	48.7	n/a	3/5/2020	71.4	Yes	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18	48.7	n/a	3/6/2020	23.5	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-18R	48.7	n/a	3/5/2020	32	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-19R	48.7	n/a	3/4/2020	34	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-20R	48.7	n/a	3/5/2020	38.9	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-21R	48.7	n/a	3/3/2020	70.2	Yes	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-22R	48.7	n/a	3/3/2020	37.2	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-23R	48.7	n/a	3/5/2020	63.7	Yes	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-24R	48.7	n/a	3/3/2020	33.3	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Calcium (mg/L)	GWC-25R	48.7	n/a	3/3/2020	37.6	No	168	n/a	n/a	n/a	0	n/a	n/a	0.00007003	NP (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.4	n/a	3/4/2020	0.29	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-17R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-18	0.4	n/a	3/6/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-18R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-19R	0.4	n/a	3/4/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-20R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-21R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-22R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-23R	0.4	n/a	3/5/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-24R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-25R	0.4	n/a	3/3/2020	0.3ND	No	168	n/a	n/a	n/a	52.38	n/a	n/a	0.00007003	NP (NDs) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

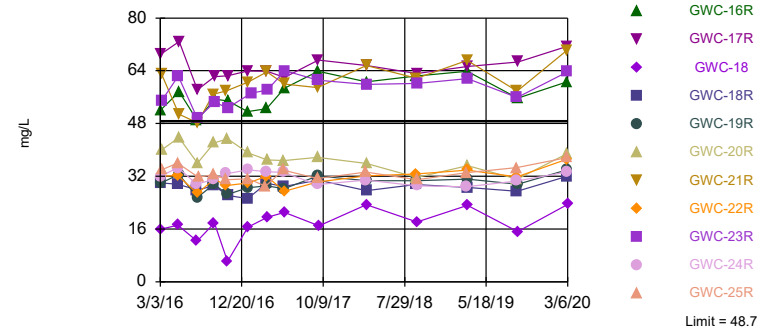


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 168 background values. 64.88% NDs. Annual per-constituent alpha = 0.00154. Individual comparison alpha = 0.00007003 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 4/15/2020 10:52 AM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limit: GWC-16R, GWC-17R, GWC-21R, GWC-23R

Prediction Limit
Interwell Non-parametric

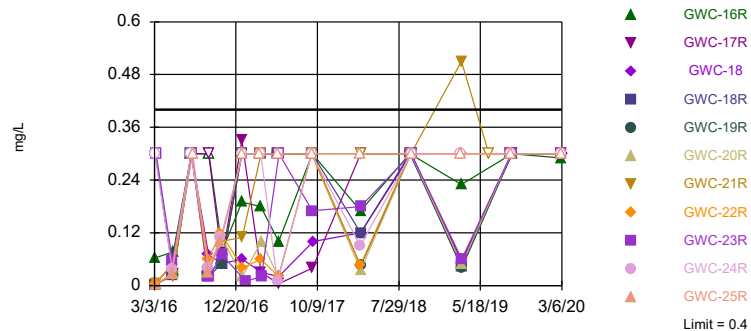


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 168 background values. Annual per-constituent alpha = 0.00154. Individual comparison alpha = 0.00007003 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 4/15/2020 10:52 AM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

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 168 background values. 52.38% NDs. Annual per-constituent alpha = 0.00154. Individual comparison alpha = 0.00007003 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 4/15/2020 10:52 AM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-17R	GWC-24R	GWC-18	GWC-22R	GWC-18R	GWC-19R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	<0.04	<0.04 (D)	<0.04						
3/4/2016				<0.04	<0.04				
3/7/2016						<0.04	<0.04	<0.04	<0.04
3/8/2016									
3/9/2016									
5/2/2016									
5/3/2016			<0.04						
5/4/2016									
5/5/2016					<0.04	<0.04	<0.04	<0.04	
5/6/2016									
5/9/2016	<0.04								<0.04
5/10/2016		<0.04		<0.04					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	0.0128 (J)		0.0047 (J)						
7/12/2016					0.005 (J)				
7/13/2016		0.0297 (J)				0.0047 (J)		0.0159 (J)	
7/14/2016				0.0069 (J)			0.0047 (J)		0.0045 (J)
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	0.0158 (J)		<0.04						
9/12/2016							<0.04	<0.04	<0.04
9/13/2016					<0.04	<0.04			
9/14/2016				<0.04					
9/15/2016		<0.04							
10/25/2016									
10/26/2016	0.0257 (J)								
10/27/2016			0.0108 (J)		0.0093 (J)		0.0153 (J)		
10/31/2016						0.0111 (J)			0.0086 (J)
11/1/2016				<0.04				<0.04	
11/2/2016		<0.04							
1/5/2017									
1/6/2017									
1/9/2017	0.0219 (J)		<0.04						
1/11/2017		<0.04		0.0078 (J)				<0.04	<0.04
1/12/2017						<0.04			
1/13/2017					<0.04		<0.04		
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017	0.0253 (J)								
3/16/2017			<0.04						
3/20/2017		0.0092 (J)			<0.04		<0.04	<0.04	
3/21/2017				<0.04					<0.04
3/22/2017									
3/23/2017						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-17R	GWC-24R	GWC-18	GWC-22R	GWC-18R	GWC-19R
5/16/2017									
5/17/2017									
5/18/2017	0.0249 (J)		<0.04						
5/19/2017					<0.04				
5/22/2017								0.0452	<0.04 (*)
5/23/2017		<0.04 (*)		<0.04		<0.04	<0.04		
5/24/2017									
7/19/2017									
9/15/2017	<0.04 (*)								
9/18/2017			<0.04						
9/19/2017					<0.04		<0.04		
9/20/2017									<0.04 (*)
9/21/2017		<0.04						<0.04	
9/22/2017				<0.04					
9/25/2017						<0.04			
3/12/2018			0.0041 (J)						
3/13/2018	0.024 (J)				0.0042 (J)		<0.04		
3/14/2018		0.0065 (J)		0.0051 (J)		<0.04		<0.04	0.0076 (J)
9/6/2018									
9/7/2018	0.024 (J)	<0.04	<0.04				<0.04	<0.04	
9/10/2018									<0.04
9/11/2018				<0.04	<0.04	<0.04			
3/6/2019									
3/7/2019	0.02 (X)		<0.04						
3/8/2019					<0.04				
3/11/2019		0.013 (X)					<0.04		
3/12/2019				0.0099 (X)		<0.04		<0.04	<0.04
9/4/2019	0.015 (X)								
9/5/2019			<0.04		<0.04		<0.04		
9/6/2019								<0.04	
9/9/2019		<0.04				<0.04			<0.04
9/10/2019				<0.04					
3/2/2020									
3/3/2020					<0.04		0.0066 (J)		
3/4/2020	0.022 (J)	0.027 (J)	0.0063 (J)						<0.04
3/5/2020				<0.04				<0.04	
3/6/2020						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	<0.04	<0.04	<0.04		
3/9/2016				<0.04	
5/2/2016					
5/3/2016					
5/4/2016	<0.04				<0.04 (D)
5/5/2016					
5/6/2016				0.0271 (J)	
5/9/2016		<0.04	<0.04		
5/10/2016					
7/6/2016					
7/7/2016					0.0096 (JD)
7/8/2016					
7/11/2016					
7/12/2016					
7/13/2016					
7/14/2016		<0.04			
7/15/2016			<0.04	0.0055 (J)	
7/18/2016	<0.04				
9/7/2016					
9/8/2016					0.0137 (JD)
9/9/2016			<0.04		
9/12/2016		<0.04			
9/13/2016	<0.04				
9/14/2016				0.0094 (J)	
9/15/2016					
10/25/2016					
10/26/2016					0.0247 (JD)
10/27/2016	0.0162 (J)		0.0103 (J)		
10/31/2016		0.007 (J)			
11/1/2016				0.008 (J)	
11/2/2016					
1/5/2017					
1/6/2017					0.0082 (JD)
1/9/2017					
1/11/2017					
1/12/2017		<0.04	<0.04		
1/13/2017	<0.04				
1/25/2017				<0.04	
2/9/2017					
3/14/2017					
3/15/2017					<0.04 (D)
3/16/2017	<0.04				
3/20/2017					
3/21/2017			<0.04		
3/22/2017		<0.04		<0.04	
3/23/2017					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
5/16/2017					
5/17/2017					
5/18/2017					0.0076 (JD)
5/19/2017	<0.04				
5/22/2017		<0.04 (*)			
5/23/2017			<0.04 (*)		
5/24/2017				0.0133 (J)	
7/19/2017					0.0193 (JD)
9/15/2017					
9/18/2017					
9/19/2017	<0.04	<0.04	<0.04		0.0132 (JD)
9/20/2017					
9/21/2017				<0.04 (*)	
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	<0.04				0.013 (J)
3/14/2018		<0.04	0.0053 (J)	0.0056 (J)	
9/6/2018					
9/7/2018					<0.04
9/10/2018		<0.04	<0.04		
9/11/2018	<0.04			<0.04	
3/6/2019					
3/7/2019					
3/8/2019	<0.04				0.0085 (X)
3/11/2019			0.005 (X)		
3/12/2019		0.0045 (X)		0.0047 (X)	
9/4/2019					0.01 (X)
9/5/2019	<0.04				
9/6/2019		<0.04	<0.04	<0.04	
9/9/2019					
9/10/2019					
3/2/2020					
3/3/2020	<0.04		0.0096 (J)		0.0096 (J)
3/4/2020					
3/5/2020		<0.04		<0.04	
3/6/2020					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-17R	GWC-24R	GWC-18	GWC-22R	GWC-18R	GWC-19R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	36	52 (D)	36						
3/4/2016				69	32				
3/7/2016						16	32	30	30
3/8/2016									
3/9/2016									
5/2/2016									
5/3/2016			39.1						
5/4/2016									
5/5/2016					34.6	17.2	32.2	29.6	
5/6/2016									
5/9/2016	39								32.6
5/10/2016		57.6		72.9					
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	35.7		31.6						
7/12/2016					29.6				
7/13/2016		49				12.3		27.8	
7/14/2016				58.2			26.8		25.6
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	32		29.8						
9/12/2016							31.1	29.1	29.6
9/13/2016					31.1	17.8			
9/14/2016				62.2					
9/15/2016		55.4							
10/25/2016									
10/26/2016	28.5								
10/27/2016			28.9		32.8		29.2		
10/31/2016						6.22			26.5
11/1/2016				62.5				26.2	
11/2/2016		54.8							
1/5/2017									
1/6/2017									
1/9/2017	27.5		27.9						
1/11/2017		51.6		63.9				25.2	28.5
1/12/2017						16.6			
1/13/2017					34		30		
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017	24.8								
3/16/2017			28.2						
3/20/2017		52.5			33.4		32	29.9	
3/21/2017				63.8					29.1
3/22/2017									
3/23/2017						19.6			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-17R	GWC-24R	GWC-18	GWC-22R	GWC-18R	GWC-19R
5/16/2017									
5/17/2017									
5/18/2017	26.9		31.3						
5/19/2017					33.2				
5/22/2017								28.9	28.2
5/23/2017		58.7		62		21	27.5		
5/24/2017									
7/19/2017									
9/15/2017	19.6								
9/18/2017			29.7						
9/19/2017					29.5		30.3		
9/20/2017									32.1
9/21/2017		63.8						30.8	
9/22/2017				67.2					
9/25/2017						17			
3/12/2018			38.2						
3/13/2018	26				30.8		32.1		
3/14/2018		60.6		65.6		23.4 (J)		27.6	30.7
9/6/2018									
9/7/2018	25.1	62.4	40.3				32.7	29.5	
9/10/2018									30.7
9/11/2018				63.2	29.1	18.1 (J)			
3/6/2019									
3/7/2019	33.3		40.4						
3/8/2019					28.8				
3/11/2019		63.8					33.9		
3/12/2019				65.3		23.2 (X)		28.6	31.1
9/4/2019	31.6								
9/5/2019			34.6		30.6		31.8		
9/6/2019								27.5	
9/9/2019		55.7				15.2			29.6
9/10/2019				66.7					
3/2/2020									
3/3/2020					33.3		37.2		
3/4/2020	38	60.6	39.9						34
3/5/2020				71.4				32	
3/6/2020						23.5			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	34	40	63		
3/9/2016				55	
5/2/2016					
5/3/2016					
5/4/2016	36				43.4 (D)
5/5/2016					
5/6/2016				62.4	
5/9/2016		43.8	50.8		
5/10/2016					
7/6/2016					
7/7/2016					40.1 (D)
7/8/2016					
7/11/2016					
7/12/2016					
7/13/2016					
7/14/2016		36			
7/15/2016			48.2	49.5	
7/18/2016	31.7				
9/7/2016					
9/8/2016					37.1 (D)
9/9/2016			56.9		
9/12/2016		42.1			
9/13/2016	32.5				
9/14/2016				54.4	
9/15/2016					
10/25/2016					
10/26/2016					38.8 (D)
10/27/2016	30.9		57.9		
10/31/2016		43.4			
11/1/2016				52.8	
11/2/2016					
1/5/2017					
1/6/2017					39.6 (D)
1/9/2017					
1/11/2017					
1/12/2017		39.1	60.5		
1/13/2017	31.2				
1/25/2017				57.2	
2/9/2017					
3/14/2017					
3/15/2017					36.1 (D)
3/16/2017	29				
3/20/2017					
3/21/2017			63.7		
3/22/2017		37		58.1	
3/23/2017					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/15/2020 10:53 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-20R	GWC-21R	GWC-23R	GWA-51R_51RZ ...
5/16/2017					
5/17/2017					
5/18/2017					40.1 (D)
5/19/2017	33.9				
5/22/2017		36.8			
5/23/2017			60		
5/24/2017				64	
7/19/2017					46.9 (D)
9/15/2017					
9/18/2017					
9/19/2017	31.3	37.7	58.9		47.7 (D)
9/20/2017					
9/21/2017				61.1	
9/22/2017					
9/25/2017					
3/12/2018					
3/13/2018	33.3				46.1 (D)
3/14/2018		35.9	65.6	59.9	
9/6/2018					
9/7/2018					44.2
9/10/2018		31.6	61.7		
9/11/2018	30.9			60.2	
3/6/2019					
3/7/2019					
3/8/2019	33.1				46.6
3/11/2019			67.1		
3/12/2019		35.2		61.6	
9/4/2019					40.7
9/5/2019	34.6				
9/6/2019		31.1	57.8	55.9	
9/9/2019					
9/10/2019					
3/2/2020					
3/3/2020	37.6		70.2		47.6
3/4/2020					
3/5/2020		38.9		63.7	
3/6/2020					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/15/2020 10:54 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R	GWC-25R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	0.1143 (J)	0.06259 (JD)	0.0392 (J)						
3/4/2016				<0.3					
3/7/2016					0.00526 (J)	0.00623 (J)	<0.3	0.00232 (J)	
3/8/2016									0.00246 (J)
3/9/2016									
5/2/2016									
5/3/2016			0.058 (J)						
5/4/2016									0.027 (J)
5/5/2016				0.039 (J)	0.049 (J)	0.045 (J)		0.025 (J)	
5/6/2016									
5/9/2016	0.0383 (J)						0.0246 (J)		
5/10/2016		0.0767 (J)							
7/6/2016									
7/7/2016									
7/8/2016									
7/11/2016	<0.3 (*)		<0.3 (*)						
7/12/2016				<0.3 (*)					
7/13/2016		<0.3				<0.3 (*)		<0.3	
7/14/2016					<0.3		<0.3		
7/15/2016									
7/18/2016									<0.3
9/7/2016									
9/8/2016									
9/9/2016	0.1 (J)		0.02 (J)						
9/12/2016					0.06 (J)		0.03 (J)	0.02 (J)	
9/13/2016				0.04 (J)		0.07 (J)			0.03 (J)
9/14/2016									
9/15/2016		<0.3							
10/25/2016									
10/26/2016	0.2 (J)								
10/27/2016			0.12 (J)	0.11 (J)	0.12 (J)				0.1 (J)
10/31/2016						0.05 (J)	0.05 (J)		
11/1/2016								0.05 (J)	
11/2/2016		0.08 (J)							
1/5/2017									
1/6/2017									
1/9/2017	0.26 (J)		0.06 (J)						
1/11/2017		0.19 (J)					<0.3	<0.3	
1/12/2017						0.06 (J)			
1/13/2017				<0.3	0.04 (J)				<0.3
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017	0.19 (J)								
3/16/2017			0.08 (J)						<0.3
3/20/2017		0.18 (J)		<0.3	0.06 (J)			<0.3	
3/21/2017							<0.3		
3/22/2017									
3/23/2017						0.03 (J)			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/15/2020 10:54 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWC-16R	GWA-55R (bg)	GWC-24R	GWC-22R	GWC-18	GWC-19R	GWC-18R	GWC-25R
5/16/2017									
5/17/2017									
5/18/2017	0.19 (J)		0.04 (J)						
5/19/2017				0.01 (J)					<0.3
5/22/2017							<0.3	<0.3	
5/23/2017		0.1 (J)			0.02 (J)	0.02 (J)			
5/24/2017									
7/19/2017									
9/15/2017	0.24 (J)								
9/18/2017			<0.3						
9/19/2017				<0.3	<0.3				<0.3
9/20/2017							<0.3		
9/21/2017		<0.3						<0.3	
9/22/2017									
9/25/2017						0.1 (J)			
3/12/2018			<0.3						
3/13/2018	0.4			0.091 (J)	0.046 (J)				<0.3
3/14/2018		0.17 (J)				0.12 (J)	0.045 (J)	0.12 (J)	
9/6/2018									
9/7/2018	0.14 (J)	<0.3	<0.3		<0.3			<0.3	
9/10/2018							<0.3		
9/11/2018				<0.3		<0.3			<0.3
3/6/2019									
3/7/2019	0.089 (X)		<0.3						
3/8/2019				<0.3					<0.3
3/11/2019		0.23 (X)			<0.3				
3/12/2019						0.05 (X)	0.04 (X)	0.042 (X)	
6/18/2019									
9/4/2019	0.11 (X)								
9/5/2019			<0.3	<0.3	<0.3				<0.3
9/6/2019								<0.3	
9/9/2019		<0.3				<0.3	<0.3		
9/10/2019									
3/2/2020									
3/3/2020				<0.3	<0.3				<0.3
3/4/2020	0.086 (J)	0.29 (J)	<0.3				<0.3		
3/5/2020								<0.3	
3/6/2020						<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/15/2020 10:54 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ... GWC-17R
2/29/2016				
3/1/2016				
3/2/2016				
3/3/2016				
3/4/2016				2.1421 (Jo)
3/7/2016				
3/8/2016	0.00287 (J)	0.00425 (J)		
3/9/2016			<0.3	
5/2/2016				
5/3/2016				
5/4/2016				0.057 (JD)
5/5/2016				
5/6/2016			0.056 (J)	
5/9/2016	0.0222 (J)	0.0259 (J)		
5/10/2016				0.0258 (J)
7/6/2016				
7/7/2016				0.09 (JD)
7/8/2016				
7/11/2016				
7/12/2016				
7/13/2016				
7/14/2016		<0.3		<0.3
7/15/2016	<0.3		<0.3	
7/18/2016				
9/7/2016				
9/8/2016				0.03 (JD)
9/9/2016	0.03 (J)			
9/12/2016		0.03 (J)		
9/13/2016				
9/14/2016			0.02 (J)	<0.3
9/15/2016				
10/25/2016				
10/26/2016				0.15 (JD)
10/27/2016	0.1 (J)			
10/31/2016		0.11 (J)		
11/1/2016			0.07 (J)	0.06 (J)
11/2/2016				
1/5/2017				
1/6/2017				0.11 (JD)
1/9/2017				
1/11/2017				0.33
1/12/2017	0.11 (J)	0.02 (J)		
1/13/2017				
1/25/2017			0.01 (J)	
2/9/2017				
3/14/2017				
3/15/2017				0.004 (JD)
3/16/2017				
3/20/2017				
3/21/2017	<0.3			0.03 (J)
3/22/2017		0.1 (J)	0.02 (J)	
3/23/2017				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/15/2020 10:54 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51R_51RZ ...	GWC-17R
5/16/2017					
5/17/2017					
5/18/2017				0.007 (JD)	
5/19/2017					
5/22/2017		0.02 (J)			
5/23/2017	<0.3				0.004 (J)
5/24/2017			<0.3		
7/19/2017				0.12 (JD)	
9/15/2017					
9/18/2017					
9/19/2017	<0.3	<0.3		0.07 (JD)	
9/20/2017					
9/21/2017			0.17 (J)		
9/22/2017					0.04 (J)
9/25/2017					
3/12/2018					
3/13/2018				0.16 (J)	
3/14/2018	<0.3	0.035 (J)	0.18 (J)		<0.3
9/6/2018					
9/7/2018				<0.3	
9/10/2018	<0.3	<0.3			
9/11/2018			<0.3		<0.3
3/6/2019					
3/7/2019					
3/8/2019				0.075 (X)	
3/11/2019	0.51				
3/12/2019		0.048 (X)	0.06 (X)		0.056 (X)
6/18/2019	<0.3				
9/4/2019				<0.3	
9/5/2019					
9/6/2019	<0.3	<0.3	<0.3		
9/9/2019					
9/10/2019					<0.3
3/2/2020					
3/3/2020	<0.3			<0.3	
3/4/2020					
3/5/2020		<0.3	<0.3		<0.3
3/6/2020					

FIGURE H.

Trend Tests Summary Table - Appendix III - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/15/2020, 2:22 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-36 (bg)	-2.355	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-37 (bg)	-0.05434	-68	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1603	-49	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-37 (bg)	-0.1106	-58	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1941	-63	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.4336	-70	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.124	-58	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.402	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-21R	1.604	56	44	Yes	14	7.143	n/a	n/a	0.02	NP

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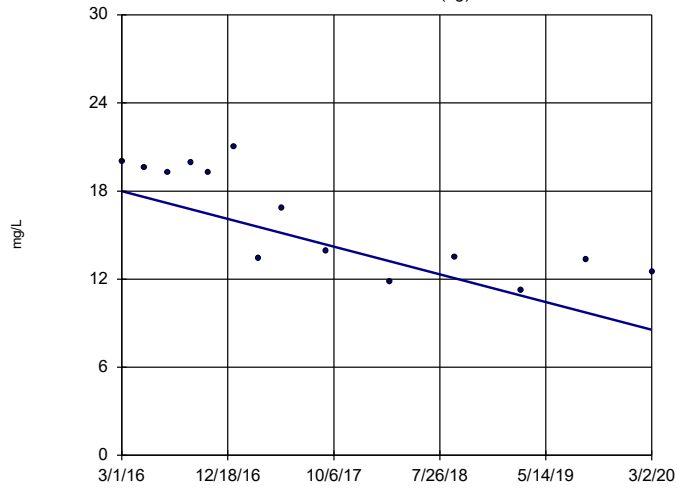
Trend Tests Summary Table - Appendix III - All Results

Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR Printed 4/15/2020, 2:22 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-36 (bg)	-2.355	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-36R (bg)	-0.5553	-24	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-37 (bg)	-0.05434	-68	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-38 (bg)	0.1249	5	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-51RZ (bg)	2.285	36	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-52 (bg)	0.2011	10	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-53 (bg)	0	-1	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-53R (bg)	0.1594	6	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-54 (bg)	-0.3479	-16	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-55 (bg)	2.414	32	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-55R (bg)	1.461	21	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-56 (bg)	-1.814	-25	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-16R	2.861	43	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-17R	1.187	19	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-21R	3.089	41	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-23R	2.072	35	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36 (bg)	-0.08208	-28	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1603	-49	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-37 (bg)	-0.1106	-58	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-38 (bg)	0.09706	34	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-51RZ (bg)	0.05993	5	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-52 (bg)	0.0005895	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-53 (bg)	-0.05935	-22	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-53R (bg)	-0.06331	-25	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1941	-63	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-55 (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-55R (bg)	0.08548	30	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-56 (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.4336	-70	-44	Yes	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-36R (bg)	0.4815	21	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.124	-58	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-38 (bg)	-0.3068	-33	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.828	42	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-52 (bg)	0.5794	11	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-53 (bg)	-0.0671	-30	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-53R (bg)	-0.06734	-23	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.402	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-55 (bg)	1.076	7	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-55R (bg)	1.394	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-56 (bg)	5.378	17	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-21R	1.604	56	44	Yes	14	7.143	n/a	n/a	0.02	NP

Sen's Slope Estimator

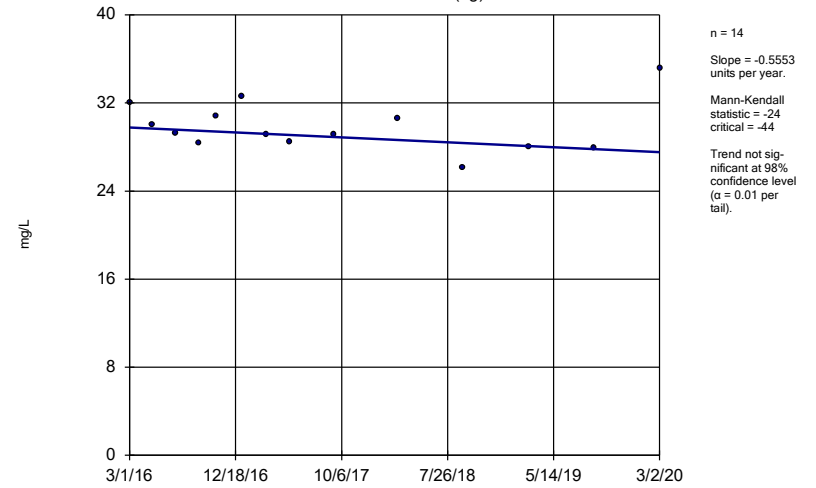
GWA-36 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

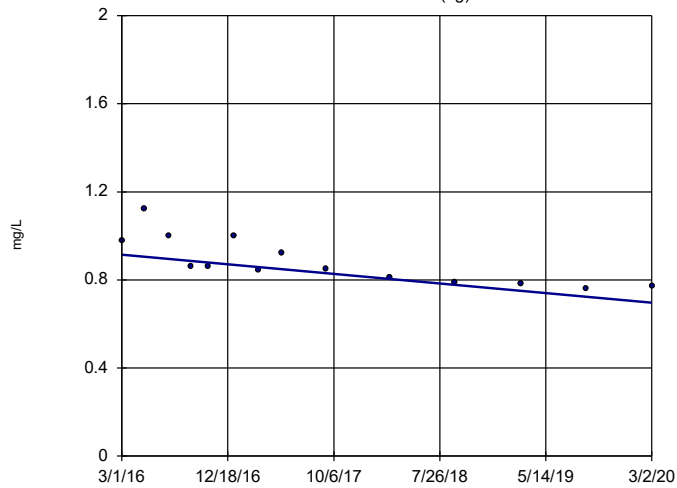
GWA-36R (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

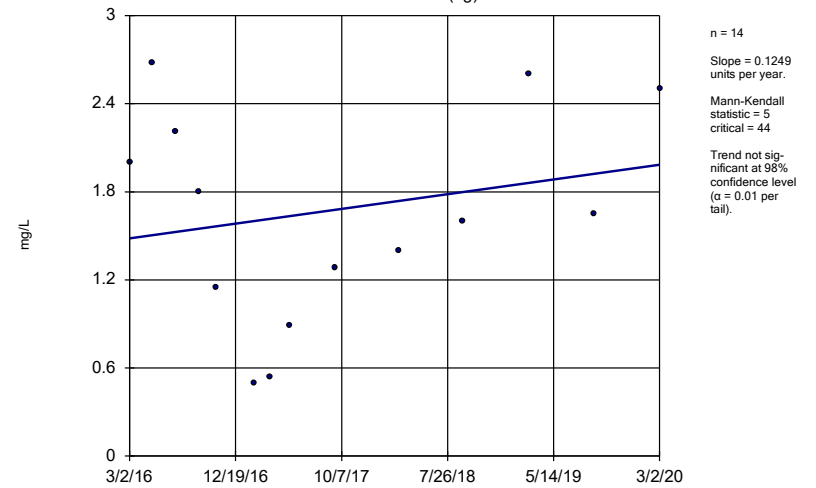
GWA-37 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

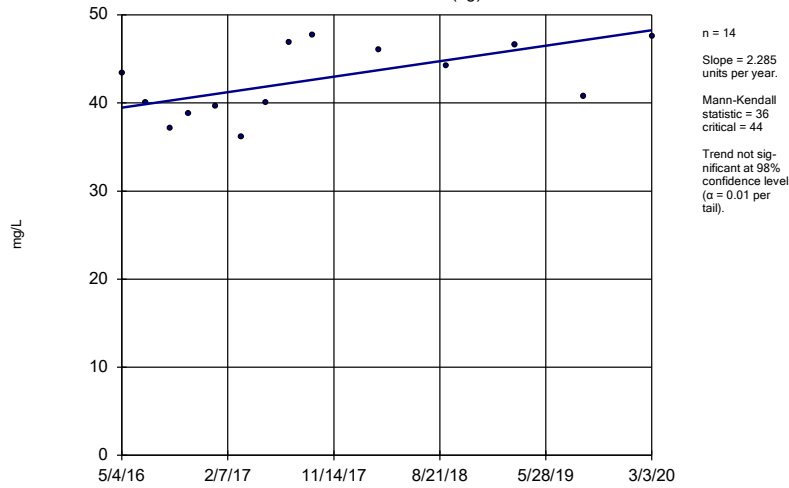
GWA-38 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

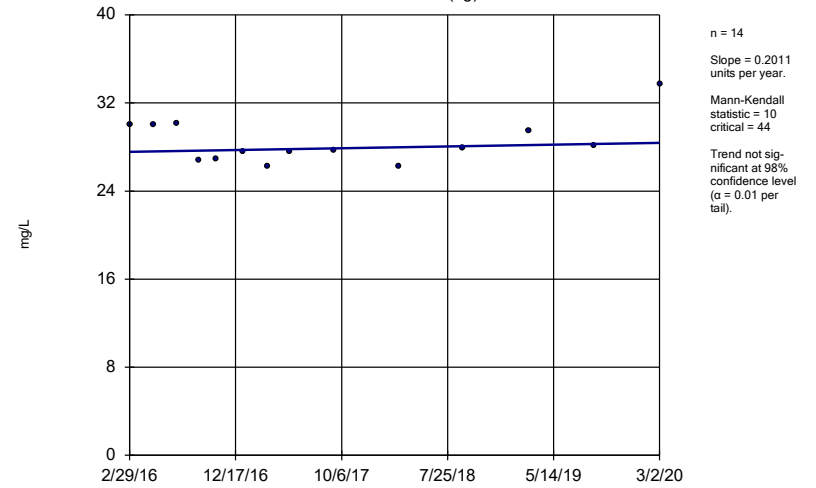
GWA-51RZ (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

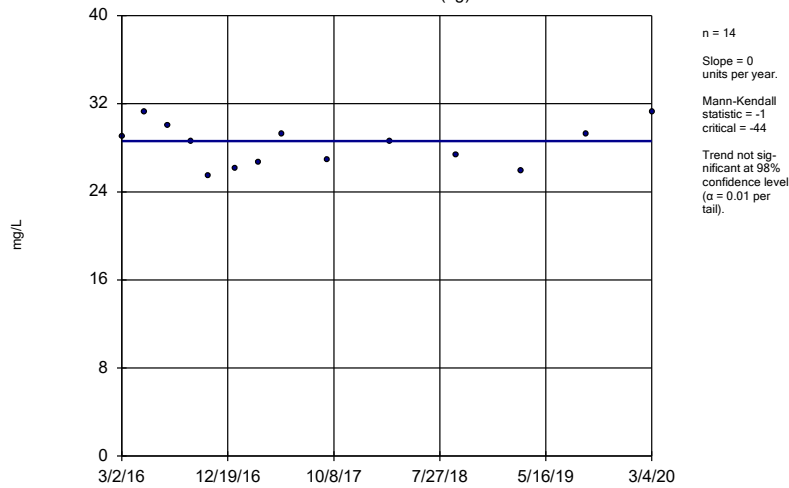
GWA-52 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

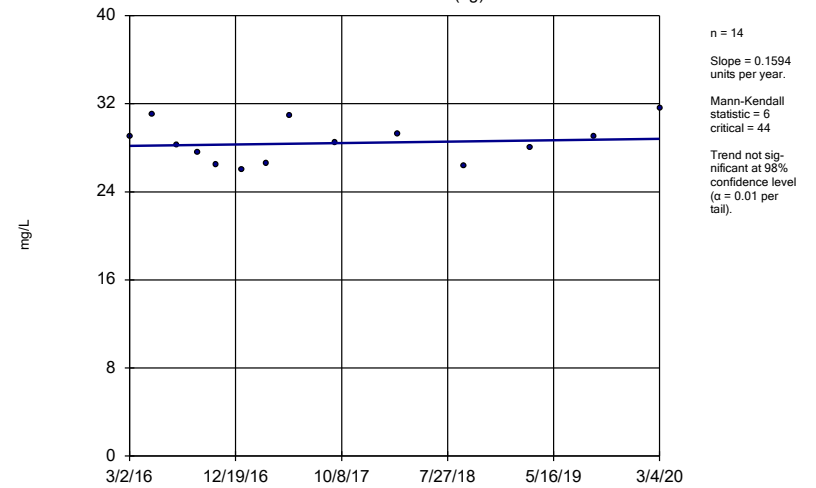
GWA-53 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

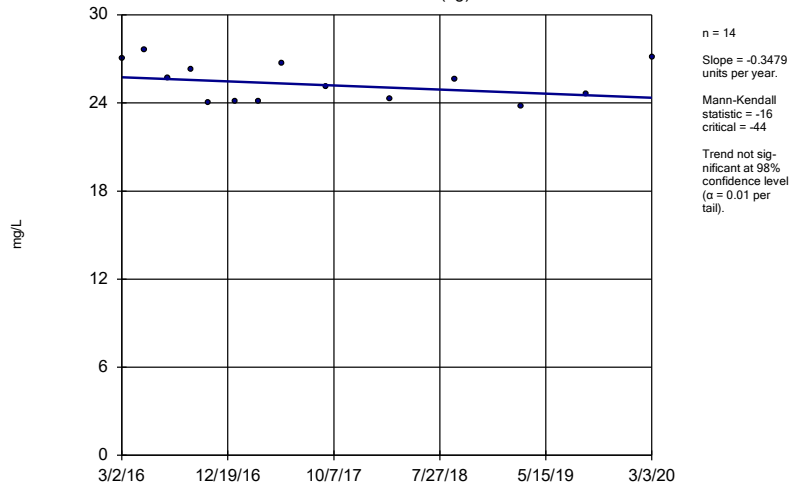
GWA-53R (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

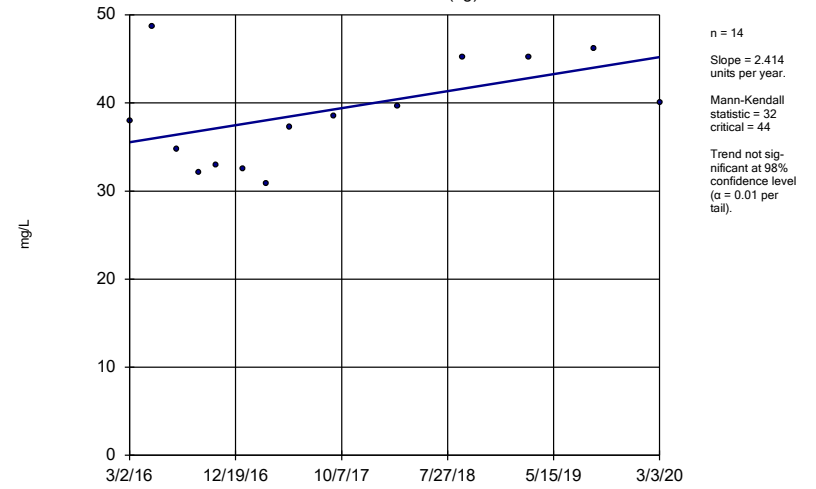
GWA-54 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

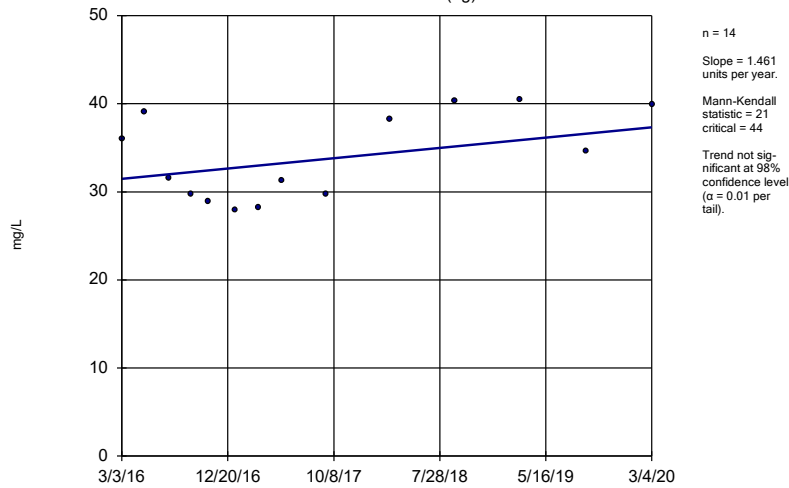
GWA-55 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

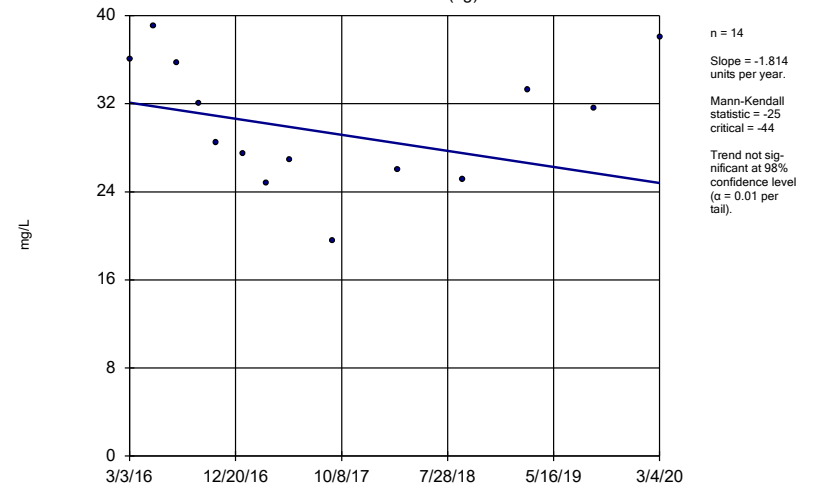
GWA-55R (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

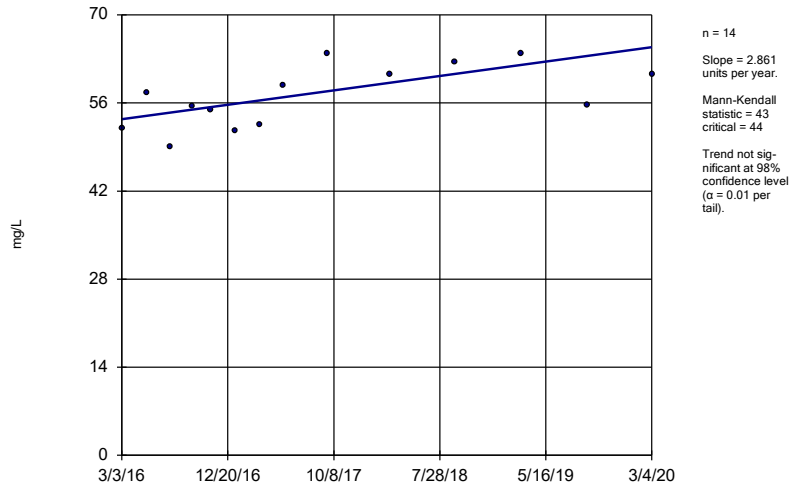
GWA-56 (bg)



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

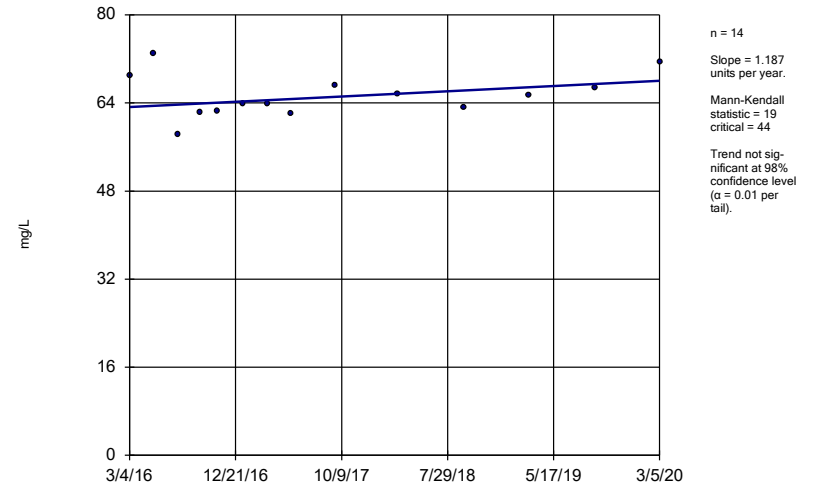
GWC-16R



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

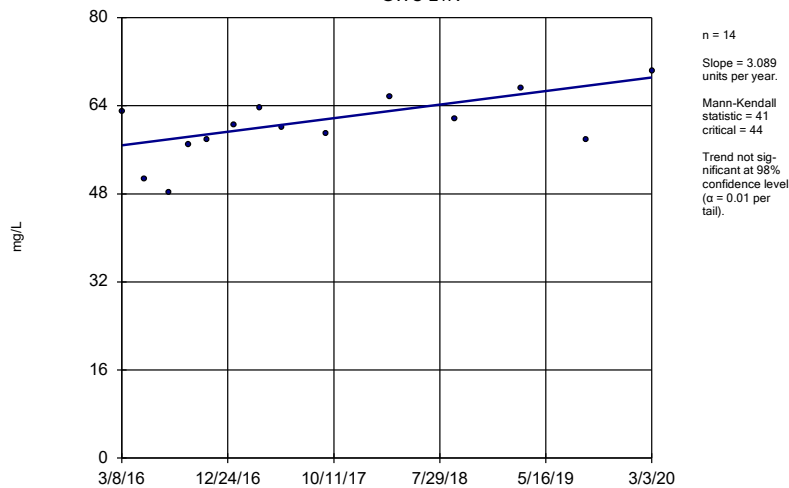
GWC-17R



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

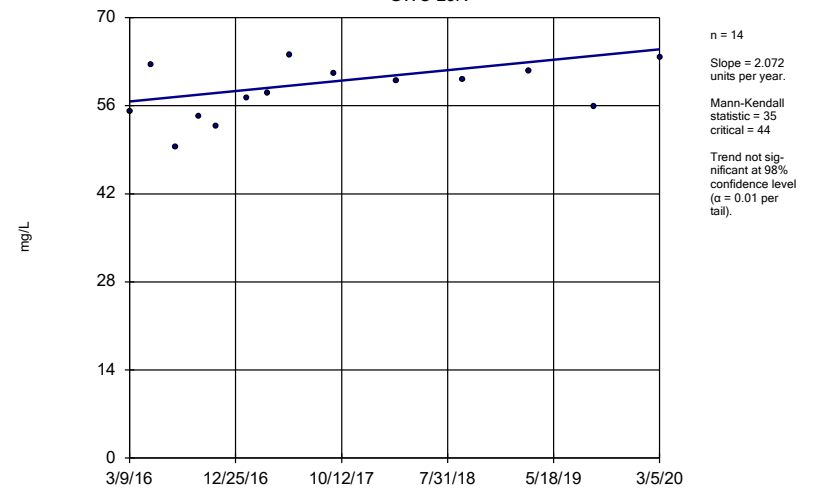
GWC-21R



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

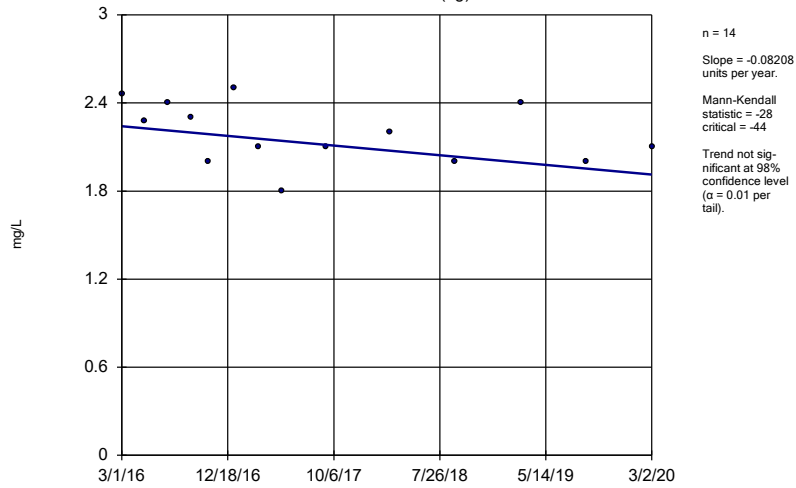
GWC-23R



Constituent: Calcium Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

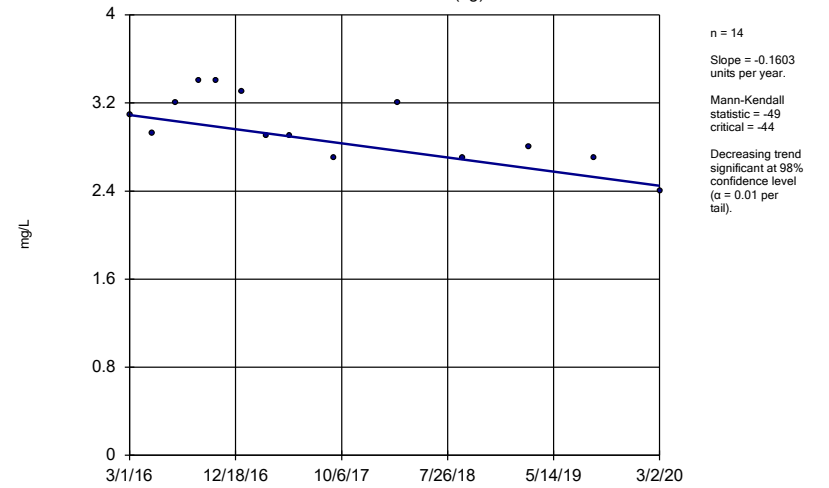
GWA-36 (bg)



Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

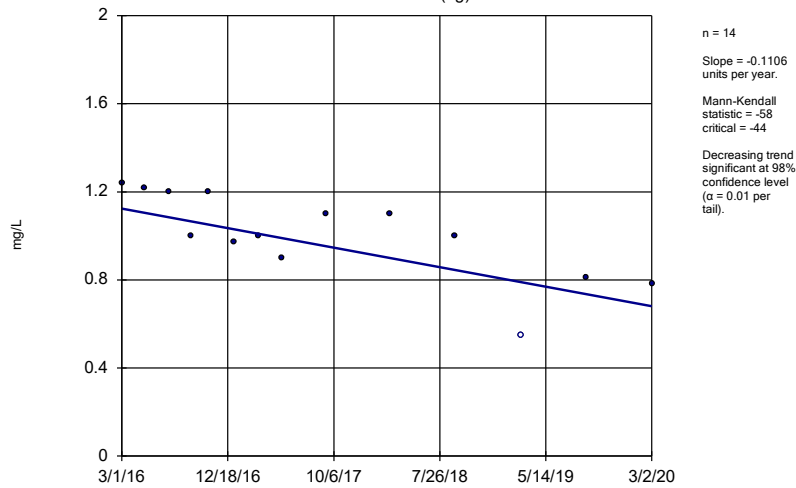
GWA-36R (bg)



Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

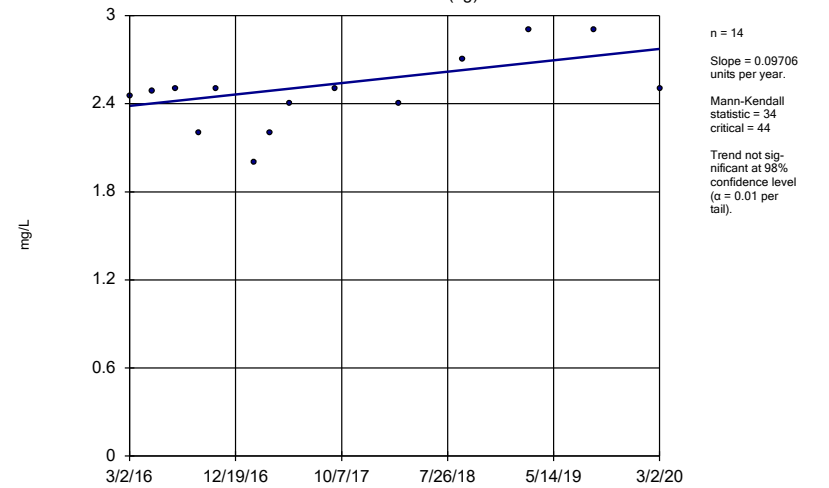
GWA-37 (bg)



Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

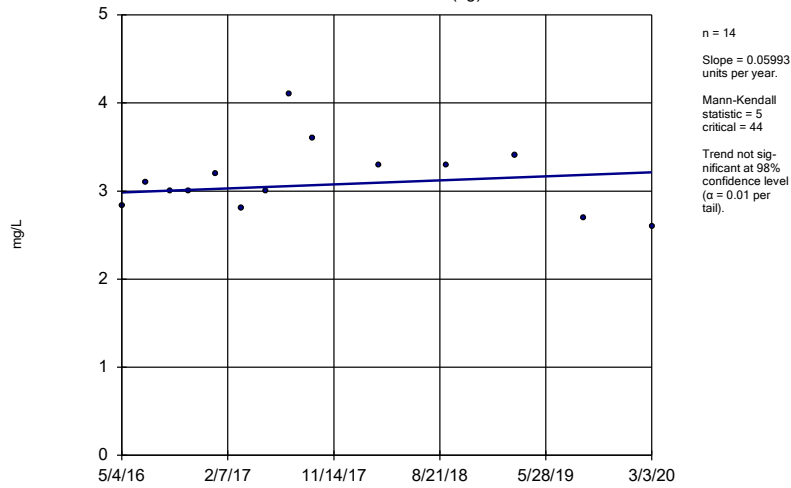
Sen's Slope Estimator

GWA-38 (bg)



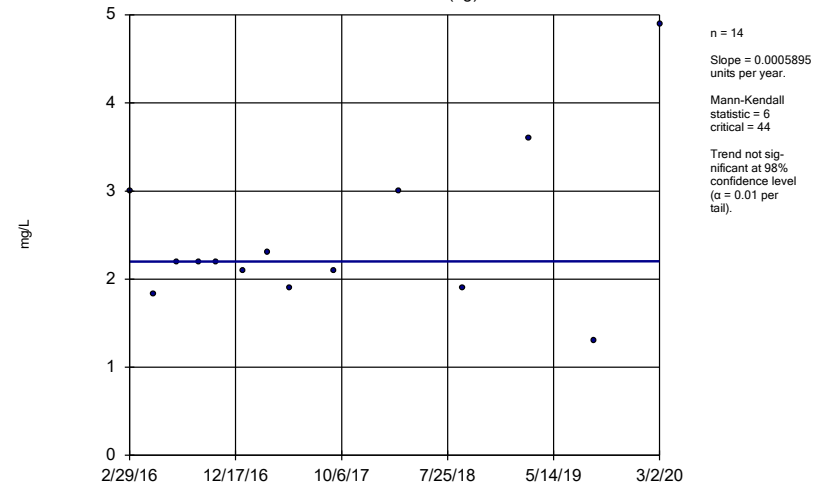
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-51RZ (bg)



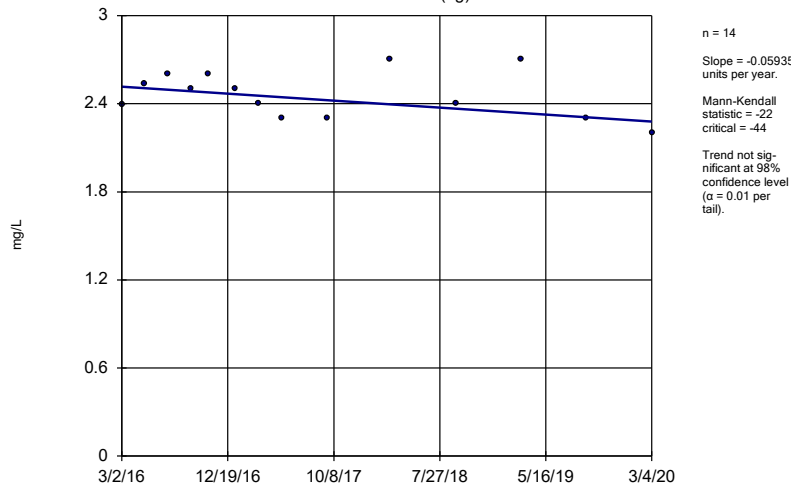
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-52 (bg)



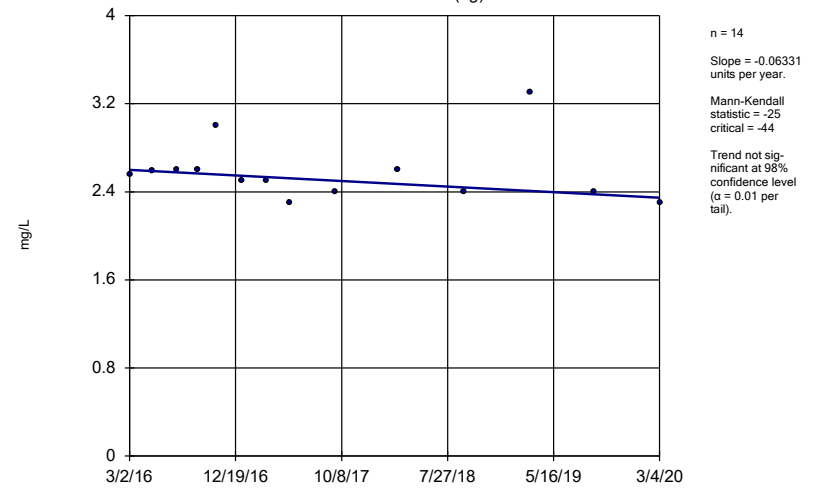
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-53 (bg)



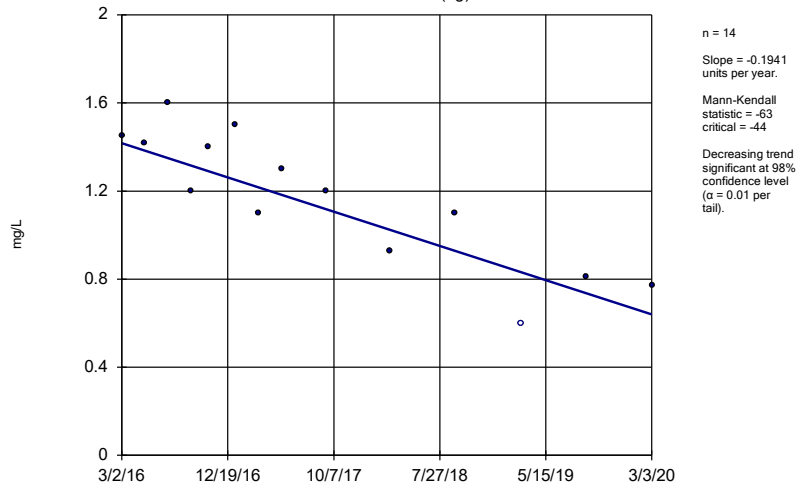
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-53R (bg)



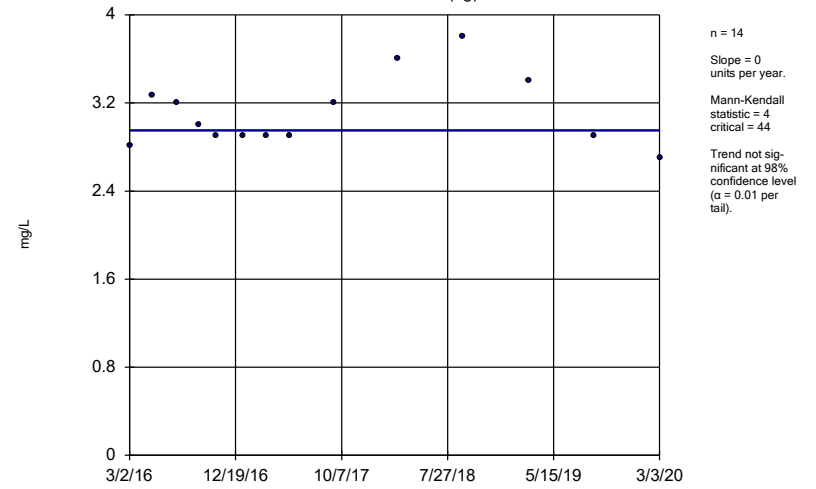
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
 GWA-54 (bg)



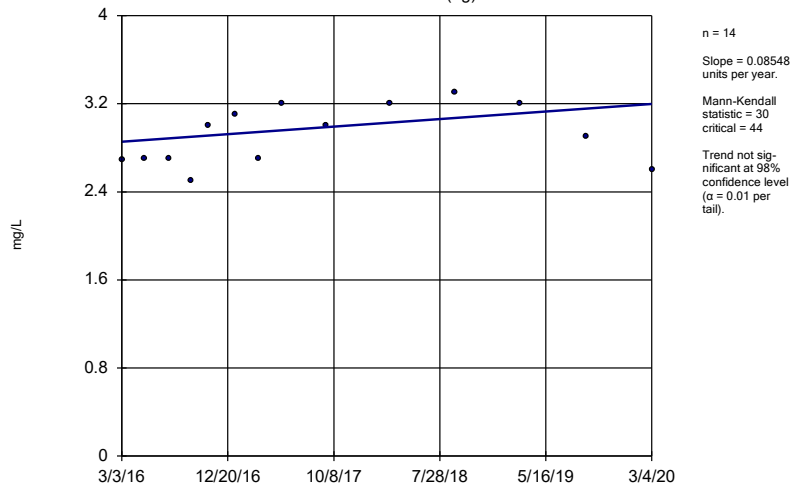
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
 GWA-55 (bg)



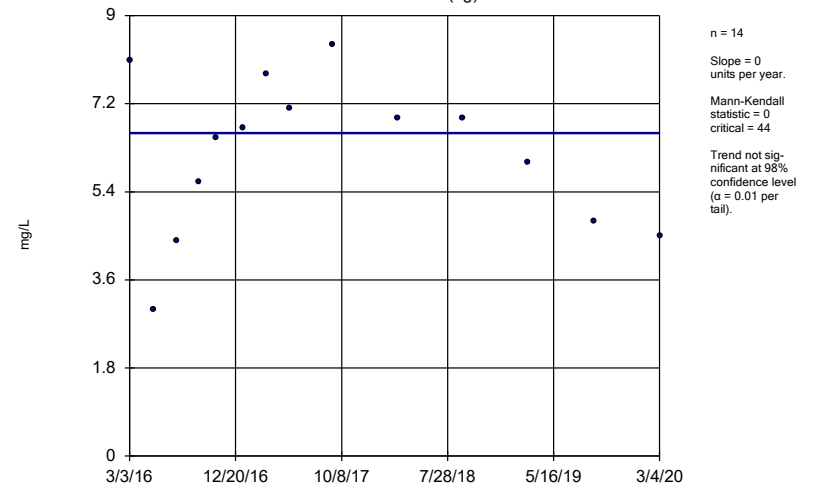
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
 GWA-55R (bg)



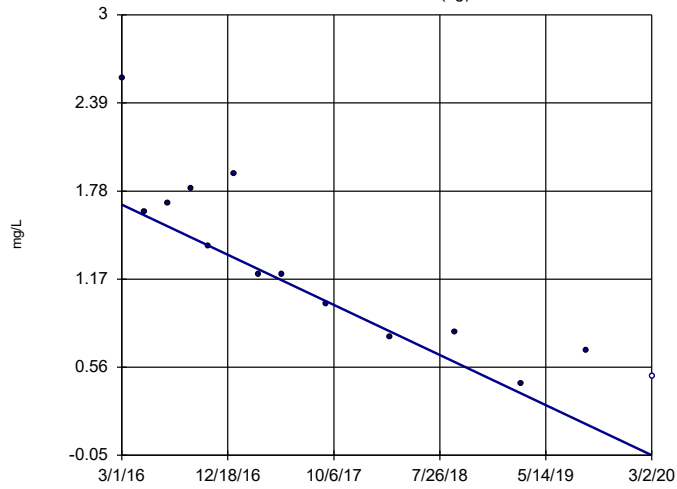
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
 GWA-56 (bg)



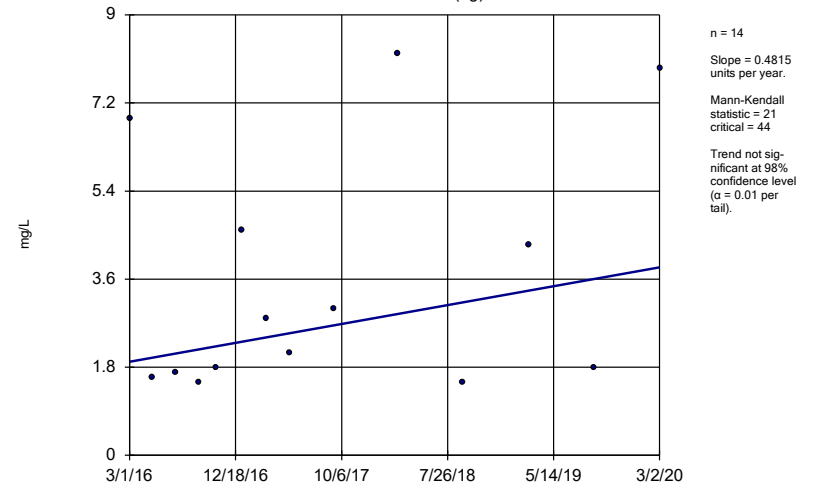
Constituent: Chloride Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-36 (bg)



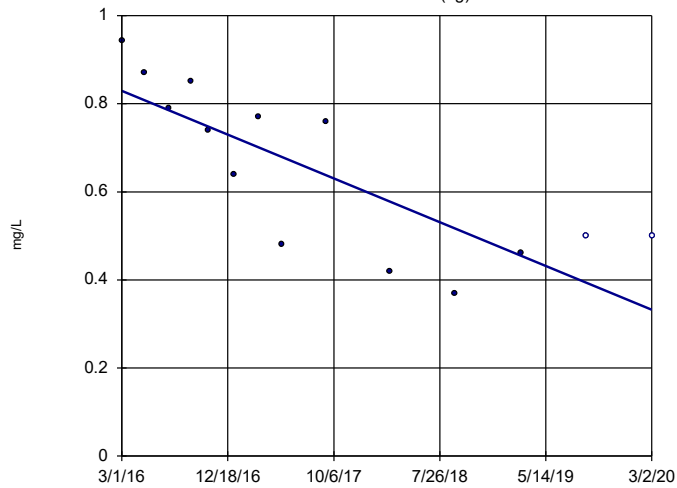
Constituent: Sulfate Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-36R (bg)



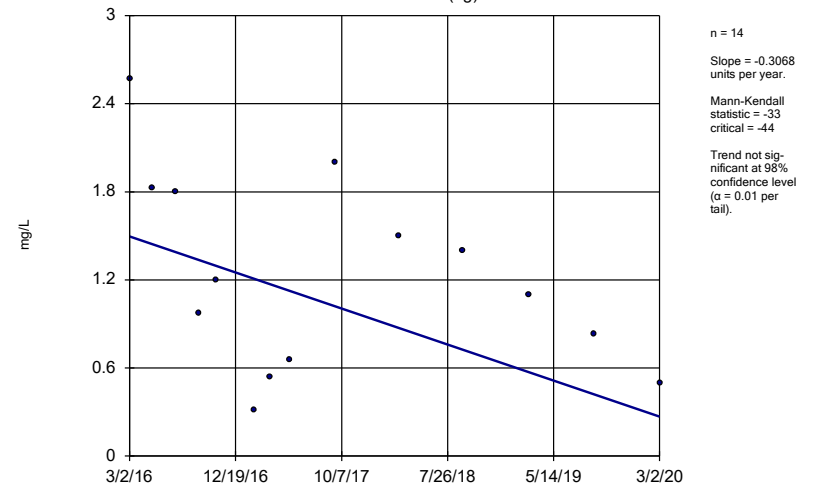
Constituent: Sulfate Analysis Run 4/15/2020 2:20 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-37 (bg)



Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

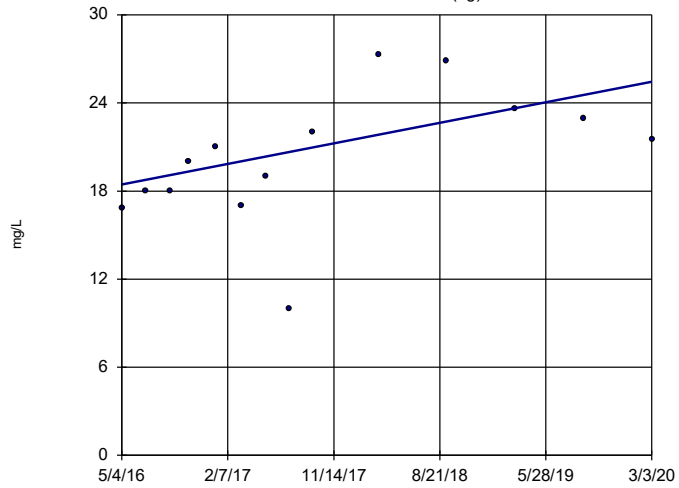
Sen's Slope Estimator
GWA-38 (bg)



Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-51RZ (bg)

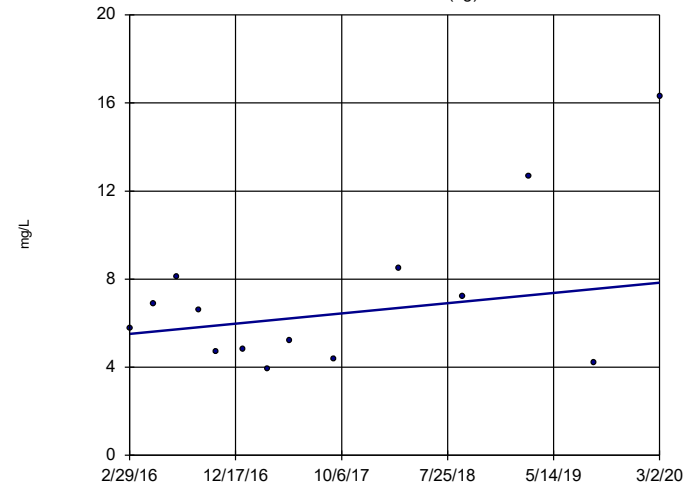


n = 14
Slope = 1.828
units per year.
Mann-Kendall
statistic = 42
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-52 (bg)

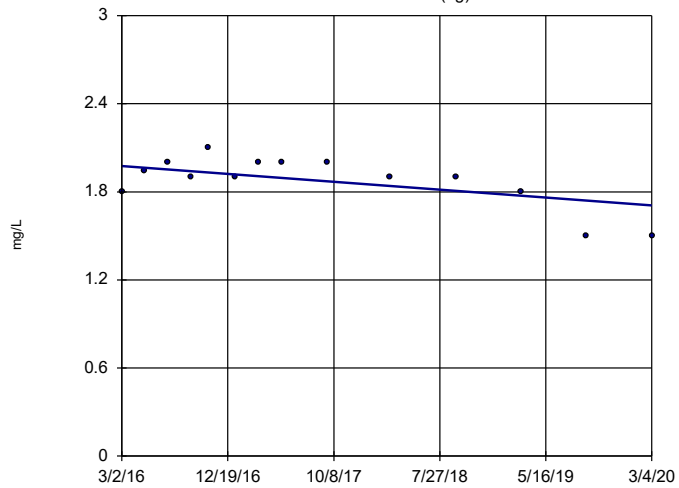


n = 14
Slope = 0.5794
units per year.
Mann-Kendall
statistic = 11
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWA-53 (bg)

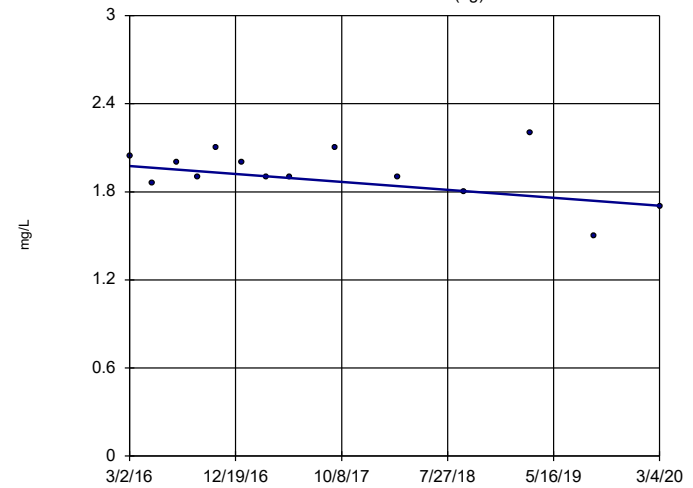


n = 14
Slope = -0.0671
units per year.
Mann-Kendall
statistic = -30
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

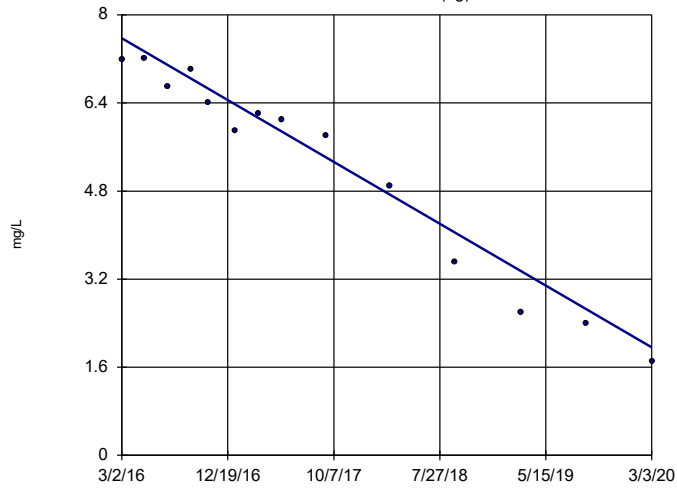
GWA-53R (bg)



n = 14
Slope = -0.06734
units per year.
Mann-Kendall
statistic = -23
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

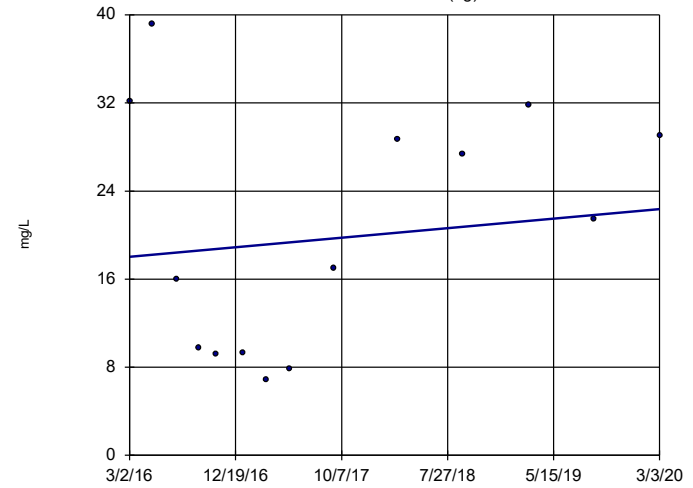
Sen's Slope Estimator
GWA-54 (bg)



n = 14
Slope = -1.402 units per year.
Mann-Kendall statistic = -83
critical = -44
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

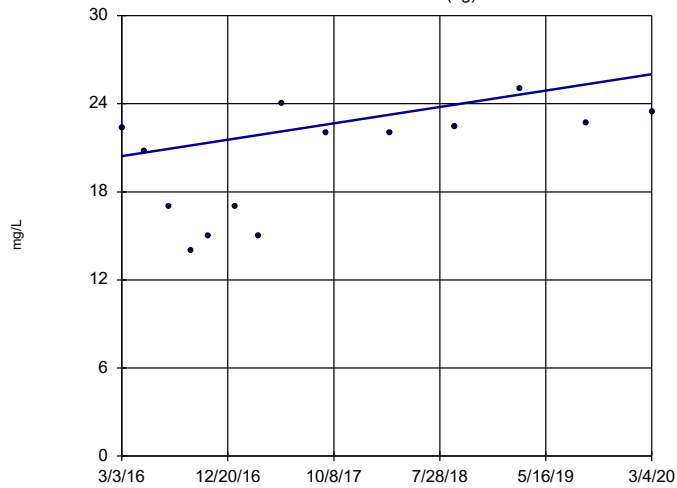
Sen's Slope Estimator
GWA-55 (bg)



n = 14
Slope = 1.076 units per year.
Mann-Kendall statistic = 7
critical = 44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

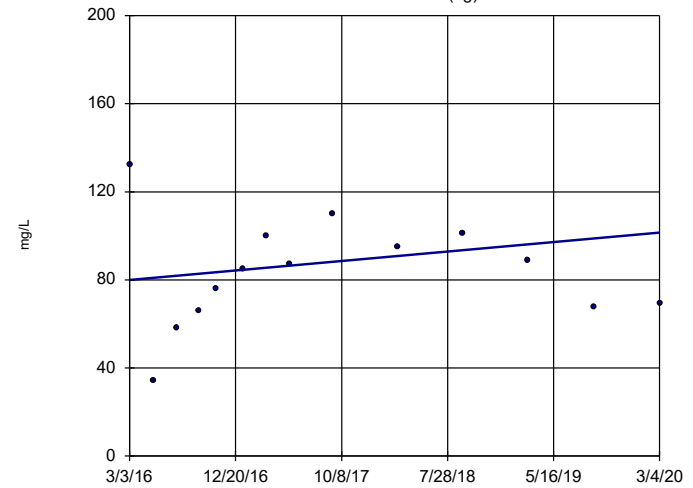
Sen's Slope Estimator
GWA-55R (bg)



n = 14
Slope = 1.394 units per year.
Mann-Kendall statistic = 40
critical = 44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator
GWA-56 (bg)

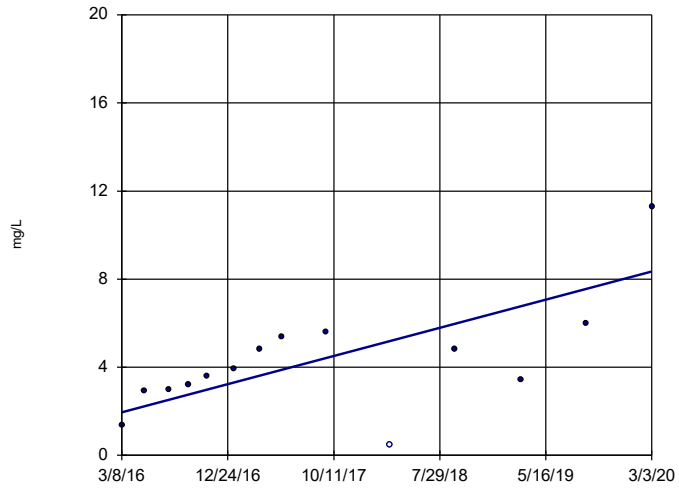


n = 14
Slope = 5.378 units per year.
Mann-Kendall statistic = 17
critical = 44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

Sen's Slope Estimator

GWC-21R



n = 14
Slope = 1.604
units per year.
Mann-Kendall
statistic = 56
critical = 44
Increasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Sulfate Analysis Run 4/15/2020 2:21 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3 and 4 CCR

GROUNDWATER STATS CONSULTING



August 26, 2020

Southern Company Services
Attn: Ms. Lauren Petty
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Bowen Landfill Cells 9 & 10
March 2020 Event - Statistical Analysis

Dear Ms. Petty,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the March 2020 sample event for Georgia Power Company's Plant Bowen Landfill Cells 9 & 10. The analysis complies with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D, the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the USEPA Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's CCR Appendix III parameters, in addition to 16 parameters in accordance with the Georgia EPD's Solid Waste Permit. The monitoring well network, as provided by Southern Company Services, consists of the following:

The monitoring well network, as provided by Southern Company Services, consists of the following:

Bedrock Wells:

- **Upgradient:** GWA-39RZ, GWA-41R, GWA-43R
- **Downgradient:** GWC-45R, GWC-46R, GWC-47R, GWC-49R

Overburden Wells:

- **Upgradient:** GWA-39Z, GWA-40, GWA-41, GWA-42, GWA-43
- **Downgradient:** GWC-44, GWC-45, GWC-47, GWC-48, GWC-49Z

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The following constituents were evaluated:

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves are provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Constituents:

Bedrock Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-3 resample plan – (all parameters)
- # Constituents: 16
- # Downgradient wells: 4

Overburden Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-3 resample plan (all parameters)
- # Constituents: 15 (Silver is not included because it is 100% nondetect in all overburden wells.)
- # Downgradient wells: 5

CCR Appendix III Constituents:

Bedrock & Overburden Wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (calcium, chloride, sulfate, TDS)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, fluoride, pH)
- # Constituents: 7
- # Downgradient wells: 9

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

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

and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Screening Summary Georgia EPD Constituents – Conducted in August 2019

Outlier and Trend Testing – Bedrock & Overburden Wells

Time series plots are used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. The results of those findings were submitted with the screening report and a summary of the flagged values follows this letter (Figure C).

Using the Tukey box plot method, several outliers were identified. For information purposes, when the most recent values are identified as outliers, values are not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, several values were flagged as such in the database. When the test identified values that were similar to other measurements within a given well or neighboring wells or were reported nondetects, these values were not flagged. All values flagged in the database as outliers are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections, and the results of those findings were submitted with the screening report.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The trend analyses results were submitted with the screening report.

Statistically significant decreasing trends were noted for barium in Bedrock wells GWC-47R and GWC-49R, and in Overburden well GWC-49Z. No adjustments were required to these records because the magnitudes of these trends are low relative to the average concentrations at these wells. In the future, if adjustments are made to any records, a summary will be provided with the report.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells

and the results were submitted with the screening report. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

For the Bedrock wells, the ANOVA identified significant differences among upgradient well data for barium. No significant differences were noted for antimony, arsenic, beryllium, chromium, cobalt, copper, lead, mercury, nickel, thallium, vanadium, and zinc. The ANOVA could not test cadmium, selenium, and silver as there was no variation in the measurements among the upgradient wells.

For the Overburden wells, the ANOVA identified significant differences among upgradient well data for: antimony, barium, cadmium, and cobalt. No significant differences were noted for arsenic, chromium, copper, lead, mercury, nickel, thallium, and zinc. The ANOVA could not test beryllium, selenium, silver, and vanadium as there was no variation in the measurements among the upgradient wells.

Where variation is identified, the intrawell method is generally recommended as the most powerful statistical method providing groundwater quality is presumed to be unimpacted by practices at the facility in downgradient wells. Where variation is not identified, this suggests that interwell analysis would be considered for the statistical method for these constituents. However, because this is a lined landfill with pre-waste data showing that metals occur naturally in low level concentrations, and no records required any adjustments due to statistically significant increasing trends in data sets, intrawell methods are recommended as the primary statistical method for all detected well/constituent pairs.

Establishing Statistical Limits

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from

across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed concentrations upgradient for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-3 resample plan, are constructed using all available data within each well with detections through September 2018. Compliance data are compared to these intrawell background limits during each subsequent semi-annual sampling event. As previously discussed, no statistical analyses were included for well/constituent pairs where there are 100% nondetects in the downgradient well.

In the event of an initial exceedance of compliance well data, the 1-of-3 resample plan allows for collection of two additional samples to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary.

Background Update Summary – March 2020

Prior to updating background data in March 2020, Tukey's outlier test and visual screening were used to evaluate data through September 2019. Tukey's test was used for all wells for the intrawell parameters and for only the upgradient wells for the interwell parameters. Tukey's test noted several potential outliers in downgradient wells for intrawell parameters, but these values were not flagged as they appeared to be representative of natural variation. Although not noted on Tukey's test, a high value for sulfate in downgradient well GWC-44 was flagged as an outlier to construct statistical limits that are conservative from a regulatory perspective. Any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. An updated summary of flagged outliers follows this letter (Figure C).

For constituents requiring intrawell prediction limits (calcium, chloride, sulfate, and TDS), the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through July 2017 to the new compliance samples at each well through September 2019. If the medians of the two groups are not significantly different at the 99% confidence level, background data are typically updated to include the newer compliance data. The results of the Mann-Whitney test were submitted with the screening. Statistically significant differences were found between the two groups for the following well/constituent pairs: calcium in upgradient well GWA-43 and downgradient well GWC-49Z; chloride in downgradient well GWC-46R; sulfate in upgradient wells GWA-40 and GWA-43, and downgradient well GWC-49R; and TDS in upgradient well GWA-39Z.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which one or both of the segments being compared are short, the comparison is complicated by the fact that normal short-term variation may be mistaken for a long-term change in medians. In this analysis all of the cases with statistically significant Mann-Whitney results were updated. The individual cases are discussed below.

For chloride in downgradient well GWC-46R, the newer data had only a slightly lower median, and reported measurements were similar to those observed earlier in the record. For calcium in downgradient well GWA-43 and upgradient well GWC-49Z and sulfate in upgradient well GWA-43, the newer, lower concentrations are very similar to those in the later portion of the historical data segments.

Although sulfate in well GWA-40 and TDS in well GWA-39Z showed increases in median concentrations, these are upgradient wells which reflect natural variation in groundwater unrelated to the facility. Additionally, the patterns and concentrations are similar to those in other upgradient wells. An increase in median concentrations was also noted for sulfate in downgradient well GWC-49R, but the magnitude of the increase is minimal relative to the variation in other wells for sulfate.

For calcium, chloride, sulfate, and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data within each well through September 2019. Future compliance observations at each well are compared to these background limits during each subsequent semi-annual sampling event.

For boron, fluoride, and pH, which are evaluated using interwell prediction limits, the Sen's Slope/Mann-Kendall trend test was used on upgradient wells to determine whether concentrations are statistically increasing, decreasing or stable over time. No statistically significant increasing trends were noted; however, statistically significant decreasing trends were noted for boron in wells GWA-41R, GWA-43R, and GWA-39RZ, and pH in wells GWA-41R and GWA-43. The apparent decreasing trends in boron are exaggerated by high nondetect values early in the record. Since the other trends were of short duration and relatively low in magnitude with concentrations similar to those in neighboring upgradient wells, no adjustments were necessary. However, if these trends persist, particularly the decreasing trend in pH at GWA-43, the background period may need to be adjusted to provide representative interwell limits. The trend tests results were included with the screening.

All background data sets for the constituents listed above were updated using all available data from upgradient wells through September 2019. The interwell prediction limits are to be used to evaluate future compliance samples for the above constituents at each downgradient well.

Statistical Analysis of Georgia EPD Constituents – March 2020 Sample Event

Intrawell prediction limits, combined with a 1-of-3 resample plan for Bedrock and Overburden wells were constructed separately using all available data within each well with detections through September 2018 (Figures D and E, respectively). Compliance data are compared to these intrawell background limits during each subsequent semi-annual sampling event. As previously discussed, no statistical analyses were included for well/constituent pairs with 100% nondetects.

In the event of an initial exceedance of compliance well data, the 1-of-3 plan allows collection of up to two samples. When both resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. The following prediction limit exceedances were noted:

Bedrock

- Antimony: Upgradient well GWA-41R
- Barium: Downgradient well GWC-49R
- Zinc: Downgradient well GWC-47R

Overburden

- Chromium: Upgradient wells GWA-39Z and GWA-41
- Nickel: Upgradient well GWA-39Z
- Zinc: Downgradient well GWC-47

When exceedances are noted upgradient of the facility, it is generally an indication that groundwater quality is beginning to change naturally. Summaries of the Georgia EPD prediction limits follow this report.

When prediction limit exceedances occur, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable. Upgradient wells are also included in the trend analyses along with downgradient to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. No statistically significant trends were present in any of the well/constituent pairs. A summary of the trend test results for the Bedrock and Overburden wells follows this letter (Figures F and G, respectively).

Statistical Analysis of Appendix III Parameters – March 2020 Sample Event

For calcium, chloride, sulfate and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through September 2019 (Figure H). The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following:

- Calcium: Upgradient wells GWA-40 and GWA-42; Downgradient well GWC-45R
- Chloride and Sulfate: Downgradient well GWC-45R
- TDS: Upgradient well GWA-41R; Downgradient wells GWC-45, GWC-45R and GWC-48

For boron, fluoride and pH, interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through March 2020 (Figure I). The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following:

- pH (upper limit): Downgradient well GWC-49R
- pH (lower limit): Downgradient wells GWC-44, GWC-45 and GWC-48

Data from well/constituent pairs found to exceed their respective prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test. Upgradient wells were included for any constituents requiring trend tests in downgradient wells (Figure J). No statistically significant increasing or decreasing trends were noted in any of the downgradient wells. A statistically significant increasing trend was noted in upgradient well GWA-42 for calcium, and statistically significant decreasing trends were noted for the following parameters in upgradient wells: calcium in well GWA-43; chloride in well GWA-39Z; pH in wells GWA-41R and GWA-43; and sulfate in wells GWA-39Z and GWA-43.

Summary

The following intrawell prediction limit exceedances were noted for the Georgia EPD parameters:

Bedrock

- Antimony: Upgradient well GWA-41R
- Barium: Downgradient well GWC-49R
- Zinc: Downgradient well GWC-47R

Overburden

- Chromium: Upgradient wells GWA-39Z and GWA-41
- Nickel: Upgradient well GWA-39Z
- Zinc: Downgradient well GWC-47

The following prediction limit exceedances were noted for the CCR parameters:

Intrawell Prediction Limits

- Calcium: Upgradient wells GWA-40 and GWA-42 and downgradient well GWC-45R
- Chloride: Downgradient well GWC-45R
- Sulfate: Downgradient well GWC-45R
- Total Dissolved Solids: Upgradient well GWA-41R, Downgradient Wells GWC-45, GWC-45R, GWC-48

Interwell Prediction Limits

- pH (upper limit): Downgradient well GWC-49R
- pH (lower limit): Downgradient wells GWC-44, GWC-45 and GWC-48

No statistically significant increasing trends were noted for any of the prediction limit exceedances identified at downgradient wells.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Bowen Landfill at Cells 9 & 10. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner
Groundwater Statistician

100% ND Bedrock Wells State Parameters

Date: 4/16/2020 11:20 AM

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Beryllium (mg/L)

GWC-45R, GWC-46R, GWC-47R, GWC-49R

Cadmium (mg/L)

GWA-41R, GWA-43R, GWC-45R, GWC-46R, GWC-47R, GWC-49R

Cobalt (mg/L)

GWA-43R, GWC-45R, GWC-47R, GWC-49R

Copper (mg/L)

GWC-49R

Lead (mg/L)

GWC-46R, GWC-49R

Mercury (mg/L)

GWA-41R, GWC-45R, GWC-46R

Nickel (mg/L)

GWC-45R

Selenium (mg/L)

GWA-39RZ, GWA-41R, GWA-43R, GWC-45R, GWC-47R, GWC-49R

Silver (mg/L)

GWA-41R, GWA-43R, GWC-45R, GWC-46R, GWC-47R, GWC-49R

Thallium (mg/L)

GWA-43R, GWC-45R

Vanadium (mg/L)

GWA-41R, GWC-45R, GWC-46R, GWC-49R

100% Nondetects - Overburden State Parameters

Date: 4/16/2020 4:10 PM

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Antimony (mg/L)

GWA-41, GWC-44

Arsenic (mg/L)

GWA-41, GWA-42, GWA-43, GWC-45, GWC-48, GWC-49Z

Beryllium (mg/L)

GWA-39Z, GWA-40, GWA-41, GWA-43, GWC-45, GWC-47, GWC-49Z

Cadmium (mg/L)

GWA-40, GWA-41, GWC-45

Cobalt (mg/L)

GWA-40, GWA-41, GWC-47

Mercury (mg/L)

GWA-39Z, GWA-41, GWA-43, GWC-44, GWC-45, GWC-47

Nickel (mg/L)

GWA-40

Selenium (mg/L)

GWA-39Z, GWA-40, GWA-41, GWA-42, GWC-45, GWC-47, GWC-49Z

Silver (mg/L)

GWA-39Z, GWA-40, GWA-41, GWA-42, GWA-43, GWC-44, GWC-45, GWC-47, GWC-48, GWC-49Z

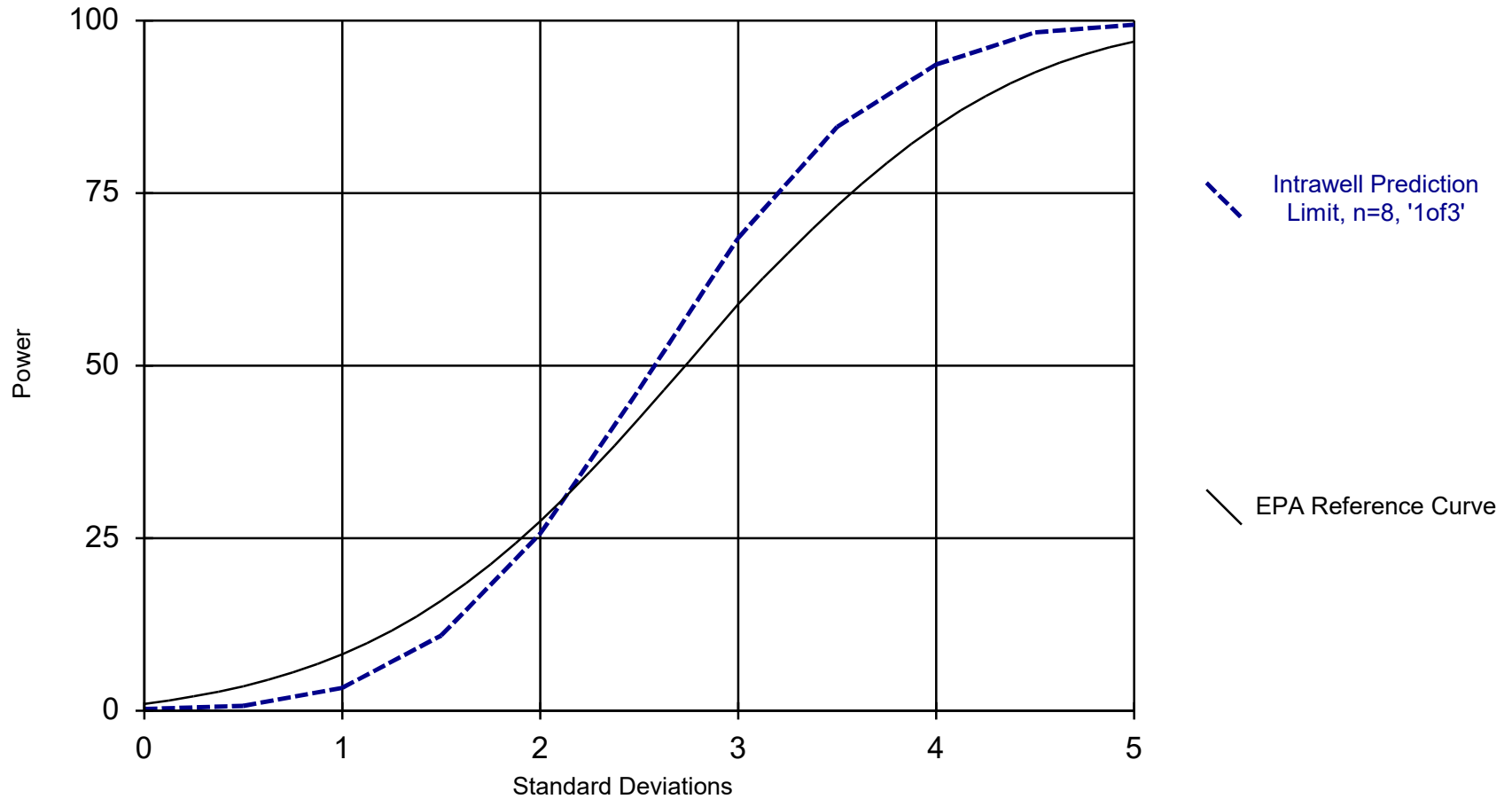
Thallium (mg/L)

GWA-41, GWC-45

Vanadium (mg/L)

GWA-39Z, GWA-40, GWA-41, GWA-42, GWC-44, GWC-47, GWC-48, GWC-49Z

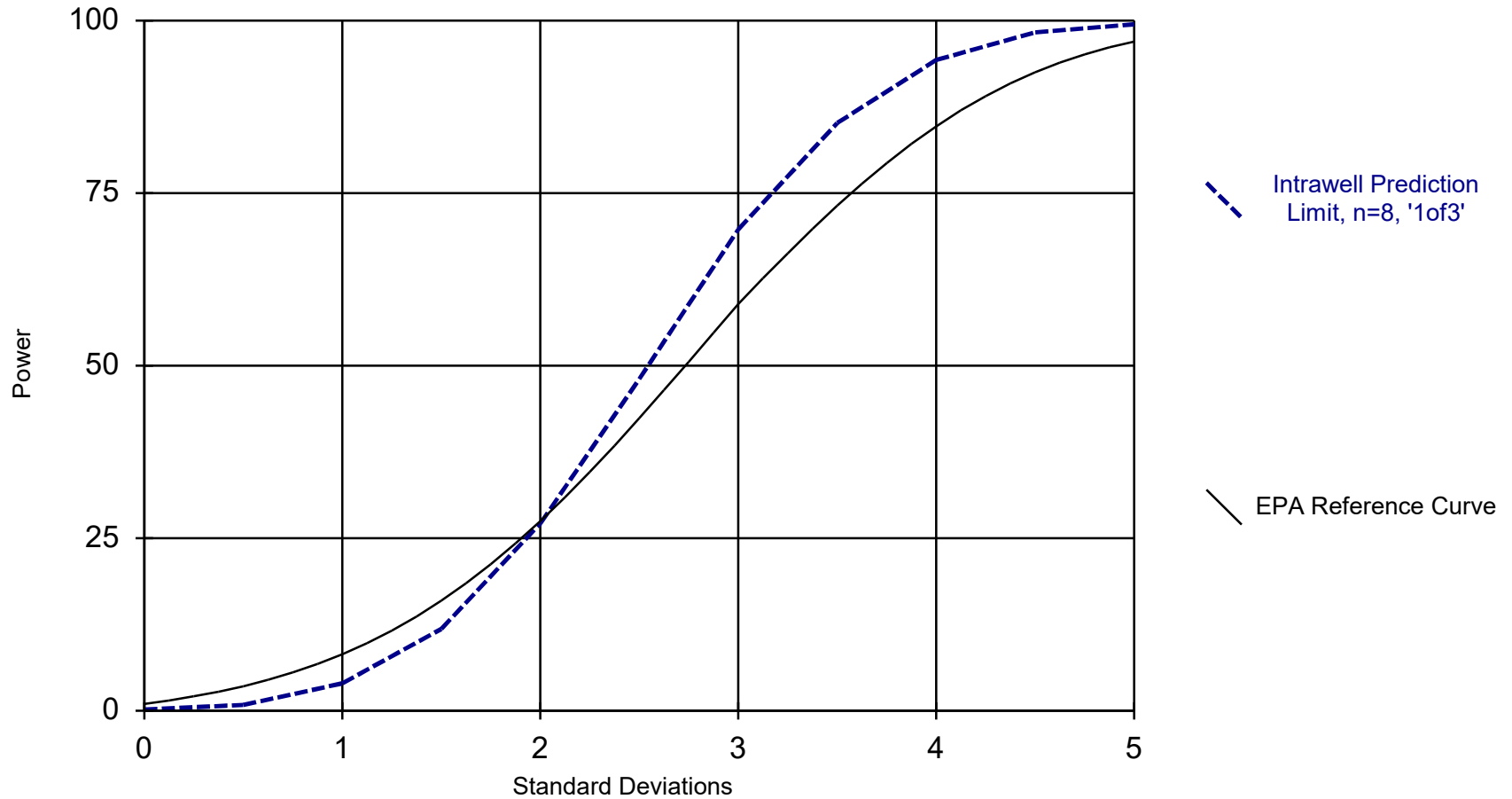
Power Curve



Kappa = 2.25, based on 5 compliance wells and 15 constituents, evaluated semi-annually (this report reflects annual total).

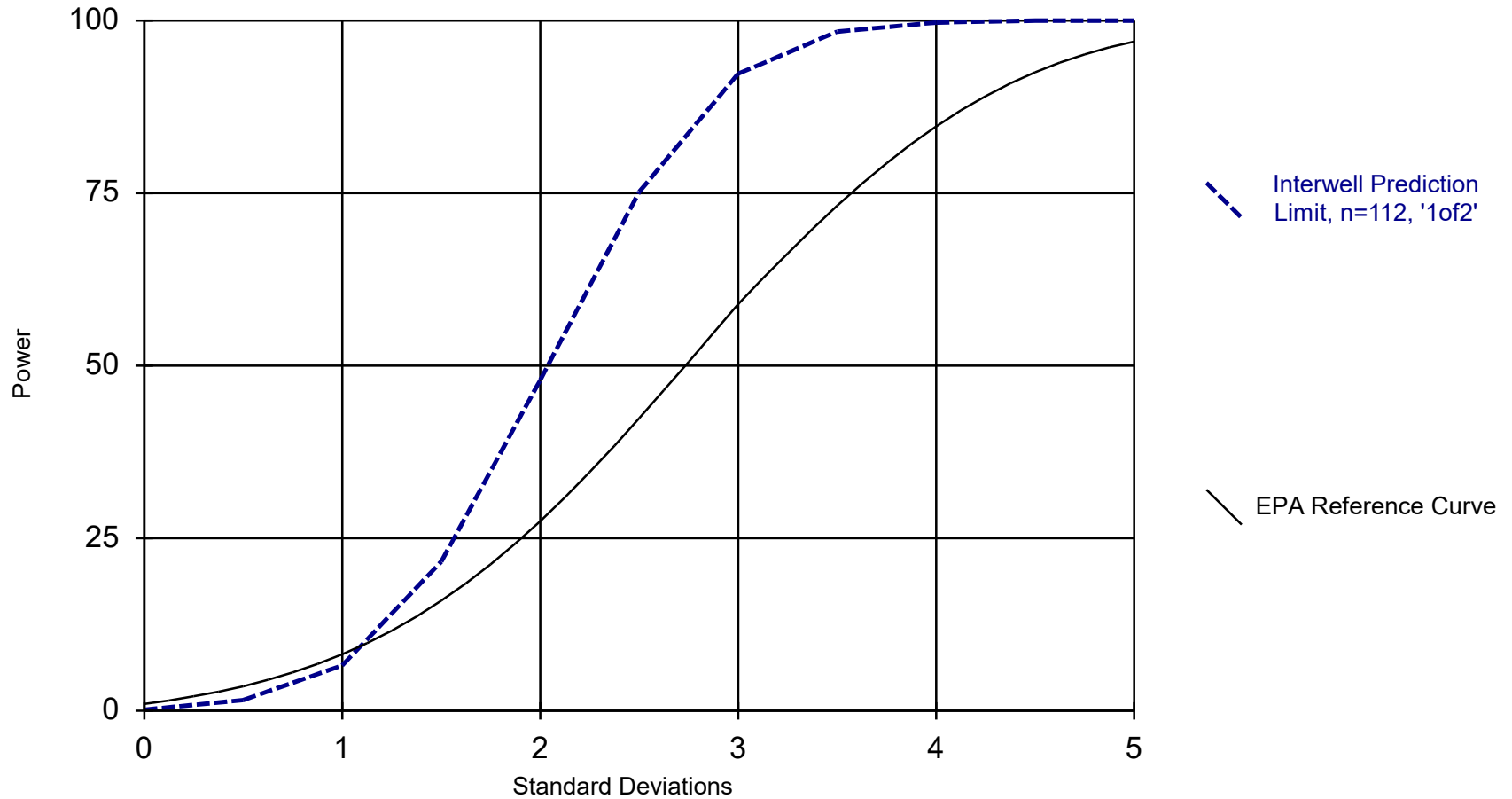
Analysis Run 4/17/2020 10:51 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Power Curve



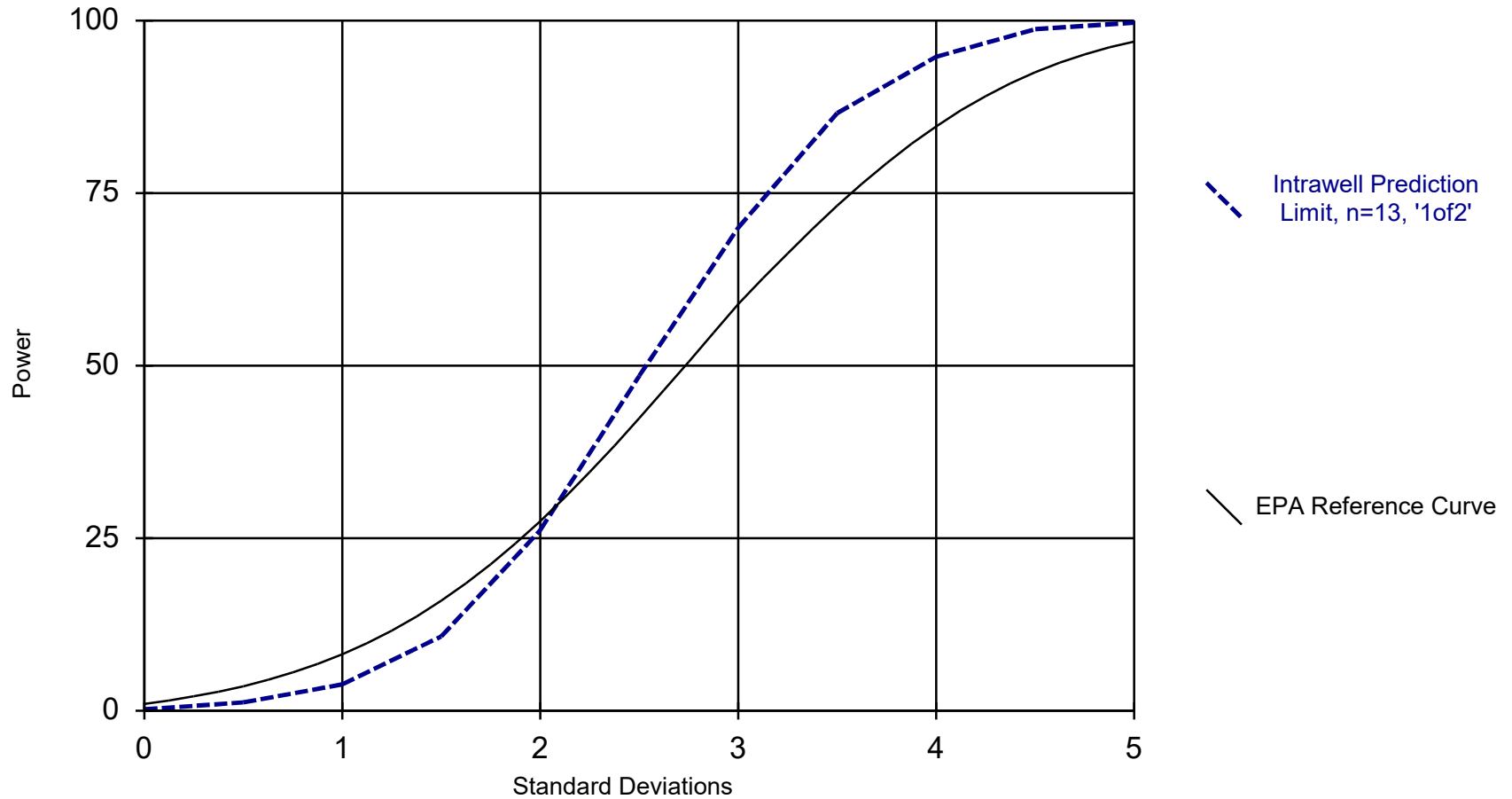
Kappa = 2.182, based on 4 compliance wells and 16 constituents, evaluated semi-annually (this report reflects annual total).

Power Curve



Kappa = 1.935, based on 9 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Power Curve



Kappa = 2.504, based on 9 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 4/17/2020 10:51 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Intrawell Prediction Limits (State) - Bedrock Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/9/2020	0.0037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/11/2020	0.026	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/9/2020	0.032	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3

Intrawell Prediction Limits (State) - Bedrock All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39RZ	0.007699	n/a	3/9/2020	0.0013	11	0.003012	0.002494	18.18	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/9/2020	0.0037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-43R	0.003	n/a	3/9/2020	0.00037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-45R	0.003517	n/a	3/10/2020	0.003ND	11	0.001604	0.001018	27.27	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWC-46R	0.003	n/a	3/10/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-47R	0.001616	n/a	3/9/2020	0.00056	11	0.03034	0.005246	45.45	Kaplan-Meier	sqrt(x)	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWC-49R	0.003	n/a	3/11/2020	0.0012	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-39RZ	0.005	n/a	3/9/2020	0.00083	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-43R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-45R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-46R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-47R	0.005	n/a	3/9/2020	0.00051	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-49R	0.005	n/a	3/11/2020	0.00041	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-39RZ	0.01964	n/a	3/9/2020	0.017	11	0.01544	0.002236	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWA-41R	0.0447	n/a	3/9/2020	0.031	11	0.02243	0.01186	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWA-43R	0.008996	n/a	3/9/2020	0.0069	11	0.008105	0.0004743	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-45R	0.02411	n/a	3/10/2020	0.024	11	0.02006	0.002154	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-46R	0.02079	n/a	3/10/2020	0.013	11	0.01549	0.002822	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-47R	0.01808	n/a	3/9/2020	0.0082	10	0.01146	0.003404	10	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/11/2020	0.026	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param Intra 1 of 3
Beryllium (mg/L)	GWA-39RZ	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-41R	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-43R	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-39RZ	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.0016	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.0004	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43R	0.002735	n/a	3/9/2020	0.0014	11	-6.826	0.492	45.45	Kaplan-Meier	ln(x)	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-45R	0.01	n/a	3/10/2020	0.00092	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/10/2020	0.0035	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-47R	0.003043	n/a	3/9/2020	0.0023	10	0.001916	0.0005792	0	None	No	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0012	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39RZ	0.0057	n/a	3/9/2020	0.005ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-46R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-39RZ	0.0271	n/a	3/9/2020	0.011	7	n/a	n/a	71.43	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41R	0.025	n/a	3/9/2020	0.0014	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43R	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45R	0.025	n/a	3/10/2020	0.025ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-46R	0.025	n/a	3/10/2020	0.025ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-47R	0.025	n/a	3/9/2020	0.00032	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-39RZ	0.005	n/a	3/9/2020	0.00027	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.000049	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-43R	0.005	n/a	3/9/2020	0.000096	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-45R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-47R	0.005	n/a	3/9/2020	0.00008	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-39RZ	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-43R	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-47R	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49R	0.0005	n/a	3/11/2020	0.0005ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3

Intrawell Prediction Limits (State) - Bedrock All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWA-39RZ	0.0224	n/a	3/9/2020	0.00083	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.00036	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-43R	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-46R	0.01	n/a	3/10/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-47R	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0004	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-46R	0.01	n/a	3/10/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.01ND	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-39RZ	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-41R	0.001	n/a	3/9/2020	0.000061	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-46R	0.001	n/a	3/10/2020	0.001ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-47R	0.0009583	n/a	3/9/2020	0.00021	11	-7.867	0.4878	0	None	ln(x)	0.0008228	Param Intra 1 of 3
Thallium (mg/L)	GWC-49R	0.001	n/a	3/11/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.01ND	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-43R	0.01	n/a	3/9/2020	0.00074	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-47R	0.01	n/a	3/9/2020	0.00075	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.009	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.0024	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-43R	0.009267	n/a	3/9/2020	0.0022	10	0.004636	0.00238	50	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-45R	0.005777	n/a	3/10/2020	0.0035	10	0.002972	0.001441	40	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-46R	0.006359	n/a	3/10/2020	0.0029	10	0.05657	0.01191	50	Kaplan-Meier	sqrt(x)	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/9/2020	0.032	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0036	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Intrawell Prediction Limits (State) - Overburden Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.069	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.015	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-39Z	0.01194	n/a	3/9/2020	0.04	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/9/2020	0.044	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3

Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/9/2020	0.0011	11	0.001342	0.0008802	27.27	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Antimony (mg/L)	GWA-40	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-42	0.003	n/a	3/6/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-43	0.003	n/a	3/9/2020	0.00062	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-45	0.003	n/a	3/10/2020	0.00087	11	n/a	n/a	45.45	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Antimony (mg/L)	GWC-47	0.003	n/a	3/9/2020	0.00032	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-48	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-49Z	0.003	n/a	3/9/2020	0.0018	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-39Z	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-40	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-44	0.005	n/a	3/10/2020	0.0013	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-47	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-39Z	0.0319	n/a	3/9/2020	0.0072	11	0.01385	0.009342	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-40	0.01224	n/a	3/9/2020	0.0088	10	0.009012	0.001613	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-41	0.03429	n/a	3/6/2020	0.022	11	0.02693	0.003812	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-42	0.00668	n/a	3/6/2020	0.0066	11	0.006255	0.0002197	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-43	0.04119	n/a	3/9/2020	0.012	11	0.02405	0.00887	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-44	0.0758	n/a	3/10/2020	0.059	10	0.0348	0.0205	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-45	0.006266	n/a	3/10/2020	0.0061	10	0.00579	0.0002378	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-47	0.01736	n/a	3/9/2020	0.0089	11	0.01361	0.001939	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/9/2020	0.029	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-49Z	0.01323	n/a	3/9/2020	0.0045	11	0.0068	0.00333	9.091	None	No	0.0007022	Param Intra 1 of 3
Beryllium (mg/L)	GWA-42	0.0002	n/a	3/6/2020	0.00017	9	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-44	0.003	n/a	3/10/2020	0.000074	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-48	0.003	n/a	3/9/2020	0.00028	11	n/a	n/a	27.27	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-39Z	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-42	0.001	n/a	3/6/2020	0.00014	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-43	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-44	0.0025	n/a	3/10/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-47	0.0025	n/a	3/9/2020	0.00015	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-48	0.0007304	n/a	3/9/2020	0.00016	10	-8.534	0.6559	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Cadmium (mg/L)	GWC-49Z	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	36.36	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.069	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-40	0.01	n/a	3/9/2020	0.0009	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.015	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-42	0.01	n/a	3/6/2020	0.00045	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.0033	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.00074	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0007	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-47	0.007299	n/a	3/9/2020	0.0012	10	-6.134	0.6071	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWC-48	0.00362	n/a	3/9/2020	0.0023	11	0.03719	0.01189	45.45	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWC-49Z	0.017	n/a	3/9/2020	0.00096	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39Z	0.008788	n/a	3/9/2020	0.00075	11	0.04771	0.02382	9.091	None	sqrt(x)	0.0007022	Param Intra 1 of 3
Cobalt (mg/L)	GWA-42	0.0025	n/a	3/6/2020	0.00039	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-43	0.0025	n/a	3/9/2020	0.00039	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.0021	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0012	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.0016	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-49Z	0.006036	n/a	3/9/2020	0.0028	11	0.003487	0.001319	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Copper (mg/L)	GWA-39Z	0.025	n/a	3/9/2020	0.0007	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWA-40	0.025	n/a	3/9/2020	0.025ND	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41	0.025	n/a	3/6/2020	0.00093	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-42	0.025	n/a	3/6/2020	0.00019	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-44	0.025	n/a	3/10/2020	0.00067	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45	0.025	n/a	3/10/2020	0.00031	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Copper (mg/L)	GWC-47	0.025	n/a	3/9/2020	0.025ND	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-48	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-49Z	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-39Z	0.005	n/a	3/9/2020	0.000055	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-40	0.005	n/a	3/9/2020	0.000095	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41	0.005	n/a	3/6/2020	0.000091	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-42	0.005	n/a	3/6/2020	0.00011	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-43	0.005	n/a	3/9/2020	0.000091	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-44	0.0008411	n/a	3/10/2020	0.00066	11	-8.001	0.4762	27.27	Kaplan-Meier	ln(x)	0.0007022	Param Intra 1 of 3
Lead (mg/L)	GWC-45	0.005	n/a	3/10/2020	0.00014	11	n/a	n/a	36.36	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-47	0.005	n/a	3/9/2020	0.000058	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-48	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-49Z	0.005	n/a	3/9/2020	0.00017	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-40	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-42	0.0005	n/a	3/6/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-48	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49Z	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-39Z	0.01194	n/a	3/9/2020	0.04	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Nickel (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.0089	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-42	0.01	n/a	3/6/2020	0.0015	10	n/a	n/a	20	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.00082	10	n/a	n/a	40	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.00086	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0012	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-47	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.0039	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-49Z	0.009582	n/a	3/9/2020	0.003	10	0.004688	0.002447	10	None	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-44	0.006719	n/a	3/10/2020	0.0063	11	0.05783	0.01249	45.45	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-39Z	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-40	0.001	n/a	3/9/2020	0.000078	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-42	0.001	n/a	3/6/2020	0.000086	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-43	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-44	0.001	n/a	3/10/2020	0.001ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-47	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-48	0.001	n/a	3/9/2020	0.00009	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-49Z	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.0035	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-40	0.01	n/a	3/9/2020	0.002	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.0027	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-42	0.01457	n/a	3/6/2020	0.012	10	0.09783	0.01143	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.002	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3

Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWC-44	0.006244	n/a	3/10/2020	0.0049	10	0.06517	0.006924	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-45	0.007234	n/a	3/10/2020	0.0031	10	0.004638	0.001298	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/9/2020	0.044	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-48	0.008972	n/a	3/9/2020	0.0079	10	0.006348	0.001312	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-49Z	0.01	n/a	3/9/2020	0.0047	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Trend Test Summary - Bedrock State Parameters

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/16/2020, 3:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	GWA-39RZ (bg)	0.0008599	14	39	No	13	15.38	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-41R (bg)	0	6	44	No	14	64.29	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-43R (bg)	0	-31	-44	No	14	64.29	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-39RZ (bg)	0.000514	20	39	No	13	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-41R (bg)	0.002928	18	44	No	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-43R (bg)	-0.00008276	-11	-44	No	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-49R	0.0001077	1	44	No	14	7.143	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-39RZ (bg)	-0.0003074	-10	-23	No	9	44.44	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-41R (bg)	0	-20	-39	No	13	61.54	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-43R (bg)	-0.0007962	-19	-39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-47R	0.0002316	3	39	No	13	15.38	n/a	n/a	0.02	NP

Trend Test Summary - Overburden State Parameters

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/16/2020, 3:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chromium (mg/L)	GWA-39Z (bg)	0	13	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-40 (bg)	0	-16	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-41 (bg)	0	13	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-42 (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-43 (bg)	0	-24	-44	No	14	71.43	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-39Z (bg)	0	-1	-39	No	13	23.08	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-40 (bg)	0	0	39	No	13	100	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-41 (bg)	0	1	39	No	13	53.85	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-42 (bg)	-0.0000969	-19	-39	No	13	15.38	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-43 (bg)	0	11	39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-39Z (bg)	-0.000282	-19	-39	No	13	46.15	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-40 (bg)	0	-23	-39	No	13	76.92	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-41 (bg)	0	-16	-39	No	13	76.92	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-42 (bg)	0.0005299	20	39	No	13	30.77	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-43 (bg)	-0.0000201	-10	-39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-47	0.004277	40	44	No	14	14.29	n/a	n/a	0.02	NP

Intrawell Prediction Limits (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-40	28.9	n/a	3/9/2020	29.4	13	21.22	3.07	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/6/2020	38	13	30.44	2.022	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/10/2020	43.5	13	33.75	3.119	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/10/2020	4.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/10/2020	5.2	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/9/2020	249	13	156	36.55	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/10/2020	60	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/10/2020	245	13	158.7	27.13	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/9/2020	100	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param Intra 1 of 2

Intrawell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-39RZ	41.66	n/a	3/9/2020	35.6	13	31.85	3.916	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-39Z	35.15	n/a	3/9/2020	3.2	14	14.39	8.463	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-40	28.9	n/a	3/9/2020	29.4	13	21.22	3.07	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-41	40.96	n/a	3/6/2020	29.2	13	18.11	9.126	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-41R	45.25	n/a	3/9/2020	25.5	13	33.5	4.693	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/6/2020	38	13	30.44	2.022	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-43	19.73	n/a	3/9/2020	2.6	13	7.587	4.85	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-43R	32.72	n/a	3/9/2020	31.7	14	28.45	1.742	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-44	16.95	n/a	3/10/2020	16.9	13	5.414	4.606	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45	0.9609	n/a	3/10/2020	0.89	13	0.9012	0.03156	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/10/2020	43.5	13	33.75	3.119	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-46R	54.42	n/a	3/10/2020	51.6	13	44.5	3.96	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-47	30.67	n/a	3/9/2020	22.3	13	23.9	2.702	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-47R	38.32	n/a	3/9/2020	35	13	30.12	3.276	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-48	11.28	n/a	3/9/2020	4.5	13	1.729	0.6507	7.692	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-49R	31.53	n/a	3/11/2020	27.1	13	25.18	2.536	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-49Z	6.919	n/a	3/9/2020	0.87	13	1.179	0.2903	0	None	x^(1/3)	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-39RZ	3.98	n/a	3/9/2020	1.5	13	2.48	0.5988	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-39Z	2.355	n/a	3/9/2020	1.2	13	1.633	0.2883	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-40	3.889	n/a	3/9/2020	1.5	14	1.224	0.305	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-41	4.209	n/a	3/6/2020	1.3	13	2.027	0.8715	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-41R	6.223	n/a	3/9/2020	1.3	13	3.133	1.234	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-42	3.894	n/a	3/6/2020	2.7	13	2.763	0.4518	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-43	1.591	n/a	3/9/2020	1.2	13	1.329	0.1047	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-43R	5.573	n/a	3/9/2020	2.2	13	3.368	0.8802	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-44	9.945	n/a	3/10/2020	5.9	14	4.578	2.188	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45	1.232	n/a	3/10/2020	0.8	13	0.9601	0.1087	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/10/2020	4.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-46R	3.019	n/a	3/10/2020	1.2	13	2.15	0.3467	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-47	3.019	n/a	3/9/2020	2.3	13	2.519	0.2	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-47R	3.021	n/a	3/9/2020	2.3	13	2.5	0.2079	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/9/2020	3.4	13	2.572	0.4151	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-49R	2.7	n/a	3/11/2020	1.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-49Z	1.455	n/a	3/9/2020	1	13	1.118	0.1348	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-39RZ	30.14	n/a	3/9/2020	5.8	13	12.5	7.045	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-39Z	9.678	n/a	3/9/2020	0.84	13	4.516	2.061	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-40	7.087	n/a	3/9/2020	1.2	14	1.363	0.5295	7.143	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-41	11.99	n/a	3/6/2020	10	13	1.385	0.3607	0	None	x^(1/3)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-41R	12.93	n/a	3/9/2020	8.5	13	5.16	3.101	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-42	2.644	n/a	3/6/2020	1.7	13	1.641	0.4006	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-43	2.037	n/a	3/9/2020	0.5ND	13	0.8393	0.4783	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-43R	10.71	n/a	3/9/2020	3.9	13	6.176	1.812	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-44	52.83	n/a	3/10/2020	48.5	13	17.74	14.01	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-45	1.809	n/a	3/10/2020	0.61	13	0.7349	0.4287	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/10/2020	5.2	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-46R	9.593	n/a	3/10/2020	5.5	13	6.725	1.145	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-47	5.618	n/a	3/9/2020	4.3	13	4.287	0.5315	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-47R	16.1	n/a	3/9/2020	10.4	13	9.164	2.771	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/9/2020	1.6	14	1.869	0.8101	7.143	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-49R	6.225	n/a	3/11/2020	3.3	14	1.88	0.2508	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2

Intrawell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-49Z	10.28	n/a	3/9/2020	1.5	13	0.9416	0.5543	0	None	ln(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-39RZ	264.6	n/a	3/9/2020	173	13	170.3	37.67	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-39Z	175.8	n/a	3/9/2020	58	12	77	38.66	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-40	161.4	n/a	3/9/2020	131	13	107.8	21.41	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41	200.2	n/a	3/6/2020	137	13	85.46	45.83	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/9/2020	249	13	156	36.55	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-42	187.7	n/a	3/6/2020	143	13	135.9	20.69	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-43	90.21	n/a	3/9/2020	51	13	40.62	19.8	23.08	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-43R	179.1	n/a	3/9/2020	174	13	141	15.22	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-44	190.9	n/a	3/10/2020	127	14	3.427	0.9504	21.43	Kaplan-Meier	x^(1/3)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/10/2020	60	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/10/2020	245	13	158.7	27.13	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-46R	293.7	n/a	3/10/2020	273	13	234.8	23.52	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-47	171.4	n/a	3/9/2020	147	13	127.8	17.38	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-47R	187.7	n/a	3/9/2020	44	13	154.5	13.26	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/9/2020	100	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-49R	196.3	n/a	3/11/2020	125	13	126.6	27.83	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-49Z	63.44	n/a	3/9/2020	51	13	31.4	12.79	23.08	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2

Interwell Prediction Limits (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-44	7.89	5.5	3/10/2020	4.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45	7.89	5.5	3/10/2020	4.98	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-48	7.89	5.5	3/9/2020	5.18	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49R	7.89	5.5	3/11/2020	8.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2

Interwell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.04	n/a	3/10/2020	0.019	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45	0.04	n/a	3/10/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45R	0.04	n/a	3/10/2020	0.009	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-46R	0.04	n/a	3/10/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47	0.04	n/a	3/9/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47R	0.04	n/a	3/9/2020	0.0051	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-48	0.04	n/a	3/9/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49R	0.04	n/a	3/11/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49Z	0.04	n/a	3/9/2020	0.0055	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-44	0.3	n/a	3/10/2020	0.13	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45R	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-46R	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47R	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-48	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49R	0.3	n/a	3/11/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49Z	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
pH (pH units)	GWC-44	7.89	5.5	3/10/2020	4.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45	7.89	5.5	3/10/2020	4.98	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45R	7.89	5.5	3/10/2020	7.05	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-46R	7.89	5.5	3/10/2020	7.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-47	7.89	5.5	3/9/2020	7.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-47R	7.89	5.5	3/9/2020	7.51	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-48	7.89	5.5	3/9/2020	5.18	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49R	7.89	5.5	3/11/2020	8.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49Z	7.89	5.5	3/9/2020	5.6	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2

Trend Test Summary (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-42 (bg)	1.37	46	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43 (bg)	-2.809	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1705	-50	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41R (bg)	-0.1285	-59	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43 (bg)	-0.2715	-81	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.222	-53	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.3274	-60	-44	Yes	14	14.29	n/a	n/a	0.02	NP

Trend Test Summary (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-39RZ (bg)	0.8466	27	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-39Z (bg)	3.1	27	48	No	15	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-40 (bg)	0.8512	14	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-41 (bg)	1.53	15	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-41R (bg)	-1.923	-34	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-42 (bg)	1.37	46	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43 (bg)	-2.809	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43R (bg)	1.003	40	48	No	15	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-45R	1.881	35	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39RZ (bg)	-0.06289	-4	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1705	-50	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-40 (bg)	0.1591	23	48	No	15	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-41 (bg)	-0.1257	-25	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4888	-38	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-42 (bg)	0.2544	26	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-43 (bg)	0	3	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-43R (bg)	-0.07549	-4	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-45R	0.1184	24	44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-39RZ (bg)	-0.03667	-27	-53	No	16	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-39Z (bg)	0.09672	13	48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-40 (bg)	-0.01848	-13	-53	No	16	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41 (bg)	0.04112	7	39	No	13	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41R (bg)	-0.1285	-59	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-42 (bg)	0.007074	10	44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43 (bg)	-0.2715	-81	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43R (bg)	-0.02739	-35	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-44	-0.06045	-40	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-45	-0.03496	-30	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-48	-0.03869	-18	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-49R	0.07032	23	48	No	15	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39RZ (bg)	1.474	8	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.222	-53	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1962	26	48	No	15	6.667	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-41 (bg)	0.3359	10	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-41R (bg)	1.016	27	44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-42 (bg)	0.1365	27	44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.3274	-60	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3022	-6	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-45R	0.2672	25	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-39RZ (bg)	-2.179	-2	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-39Z (bg)	6.184	12	39	No	13	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-40 (bg)	8.873	40	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-41 (bg)	14.67	24	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-41R (bg)	10.03	12	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-42 (bg)	2.709	12	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-43 (bg)	-11.12	-39	-44	No	14	21.43	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-43R (bg)	5.083	26	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-45	0	14	44	No	14	50	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-45R	16.64	37	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-48	2.852	27	44	No	14	28.57	n/a	n/a	0.02	NP

Outlier Summary

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 11:02 AM

GWC-45 Antimony (mg/L) GWC-44 Arsenic (mg/L) GWC-47R Arsenic (mg/L) GWA-40 Barium (mg/L) GWC-44 Barium (mg/L) GWC-45 Barium (mg/L) GWC-47R Barium (mg/L) GWA-42 Beryllium (mg/L) GWC-45R Cadmium (mg/L) GWC-48 Cadmium (mg/L)

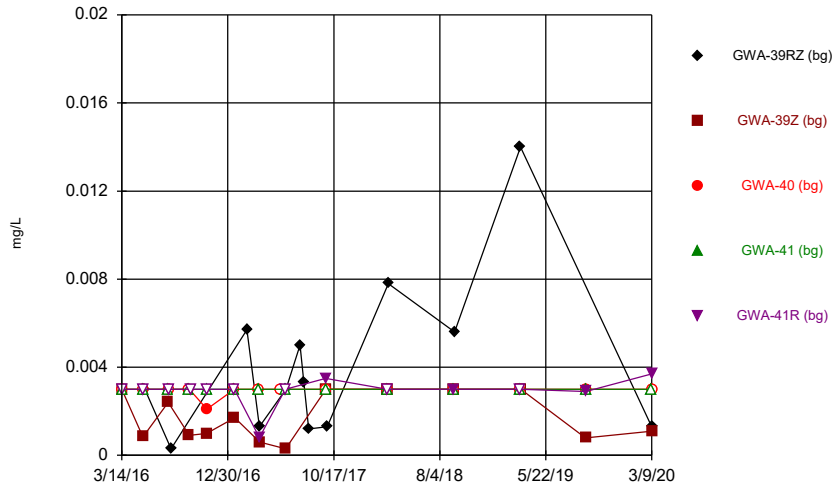
Date	GWC-45 Antimony (mg/L)	GWC-44 Arsenic (mg/L)	GWC-47R Arsenic (mg/L)	GWA-40 Barium (mg/L)	GWC-44 Barium (mg/L)	GWC-45 Barium (mg/L)	GWC-47R Barium (mg/L)	GWA-42 Beryllium (mg/L)	GWC-45R Cadmium (mg/L)	GWC-48 Cadmium (mg/L)
3/10/2016			0.0551 (o)				0.0344 (o)			0.0195 (Jo)
3/11/2016								<0.003 (o)		
3/15/2016				<3 (o)						
3/16/2016		0.0657 (o)			<3 (o)	0.6294 (o)			0.0167 (o)	
5/16/2016								<0.003 (o)		
5/18/2016										
9/27/2017	0.0111 (o)									
3/14/2019										

GWC-47 Chromium (mg/L) GWC-47R Chromium (mg/L) GWC-44 Sulfate (mg/L)

Date	GWC-47 Chromium (mg/L)	GWC-47R Chromium (mg/L)	GWC-44 Sulfate (mg/L)
3/10/2016	0.0439 (o)		
3/11/2016			
3/15/2016			
3/16/2016			
5/16/2016			
5/18/2016		0.00606 (Jo)	
9/27/2017			
3/14/2019			79.7 (O)

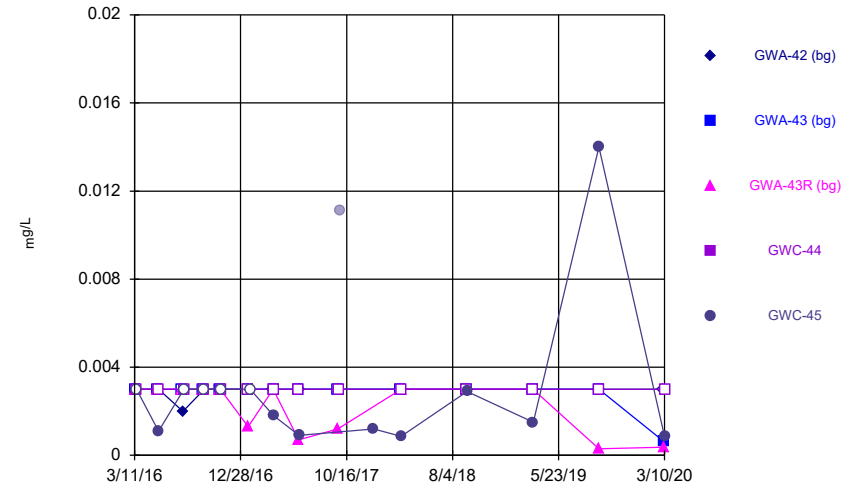
FIGURE A.

Time Series



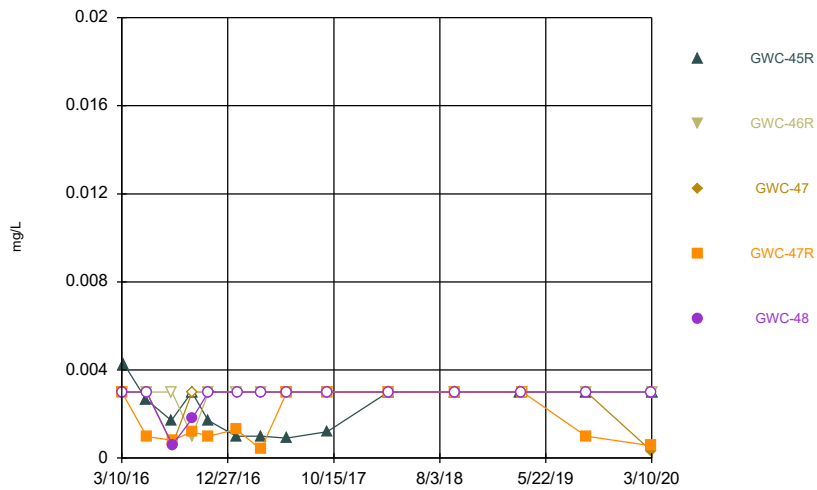
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



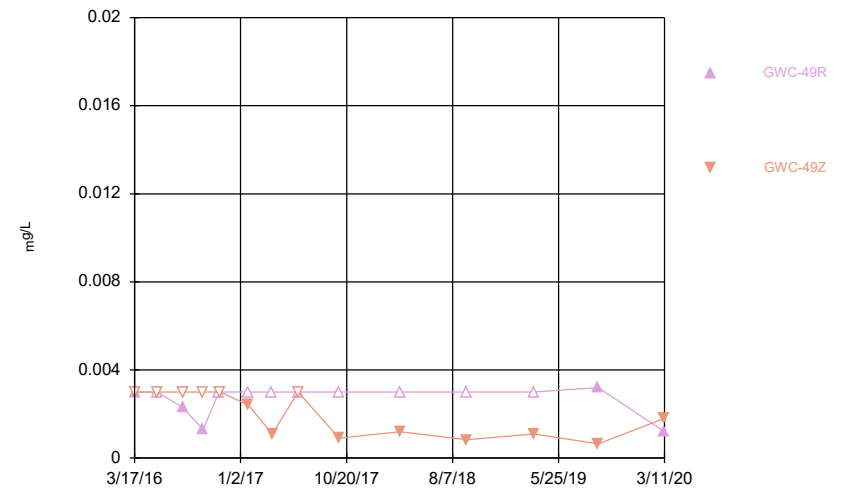
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



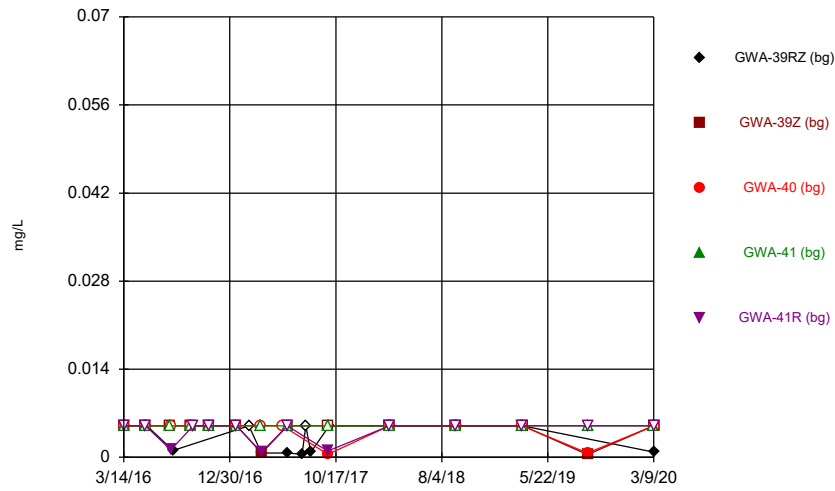
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



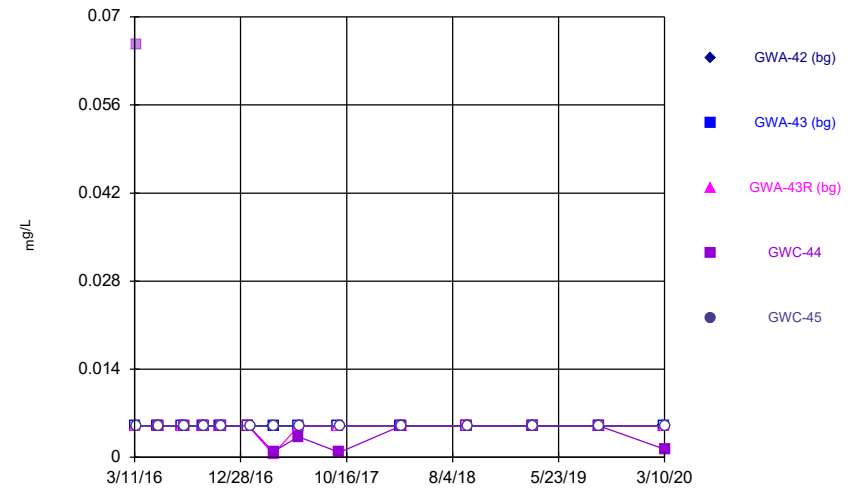
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



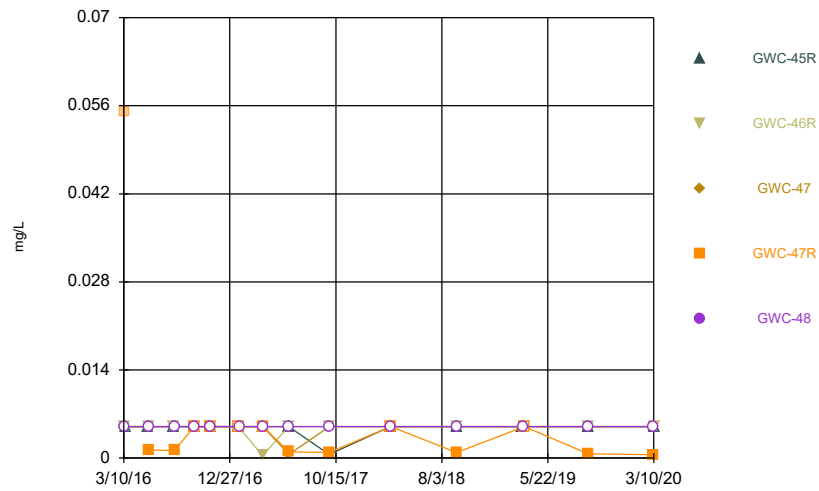
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



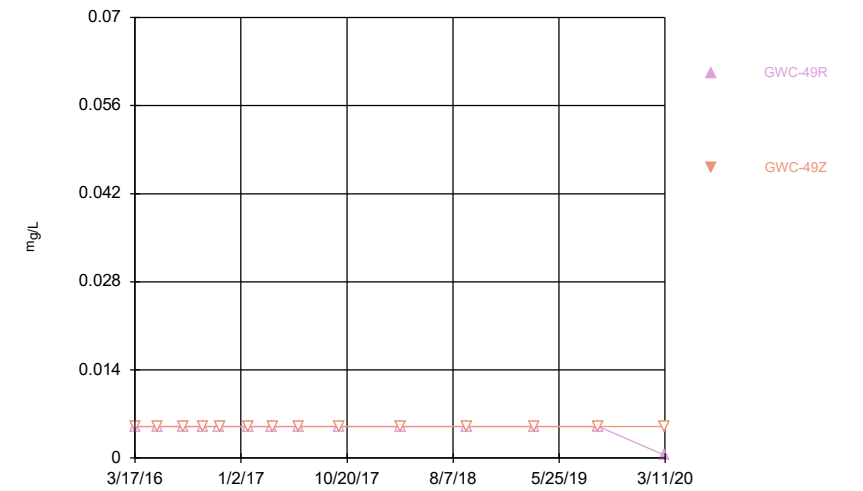
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



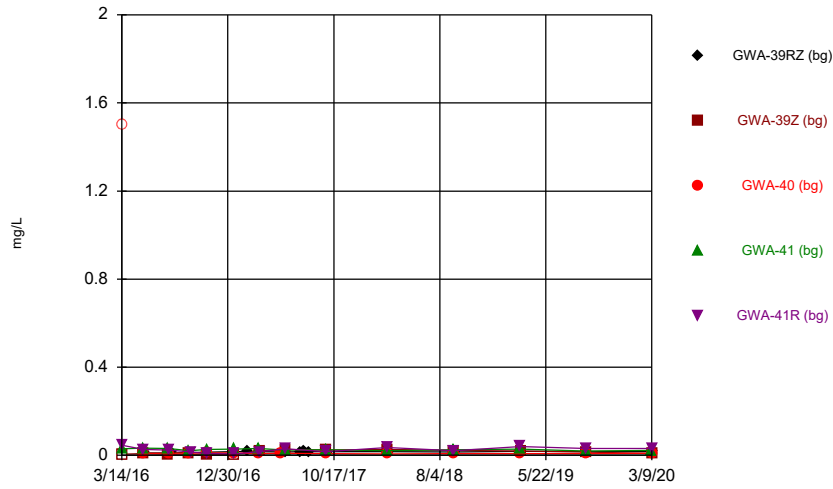
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



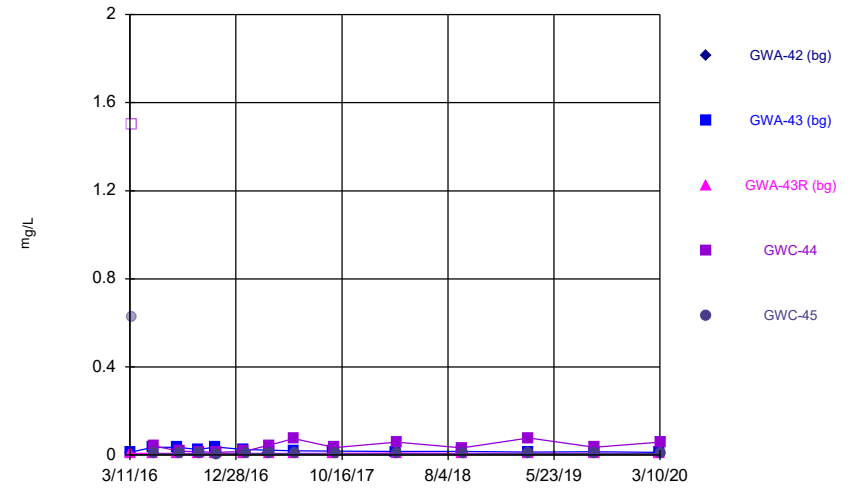
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



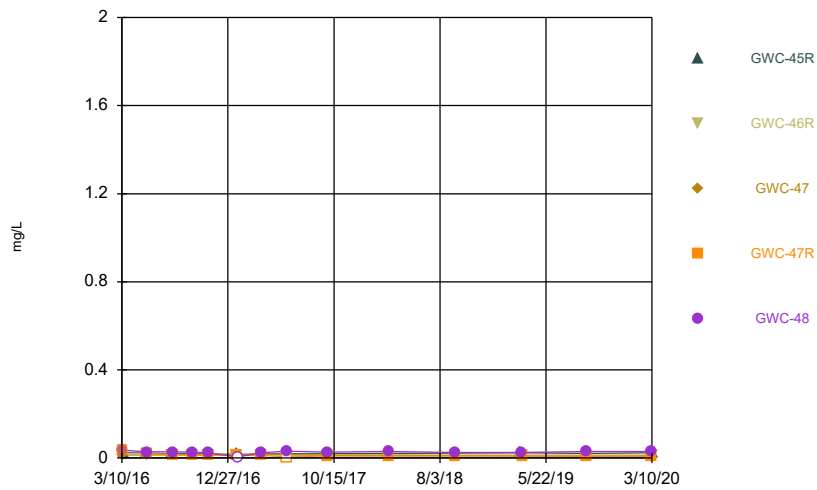
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



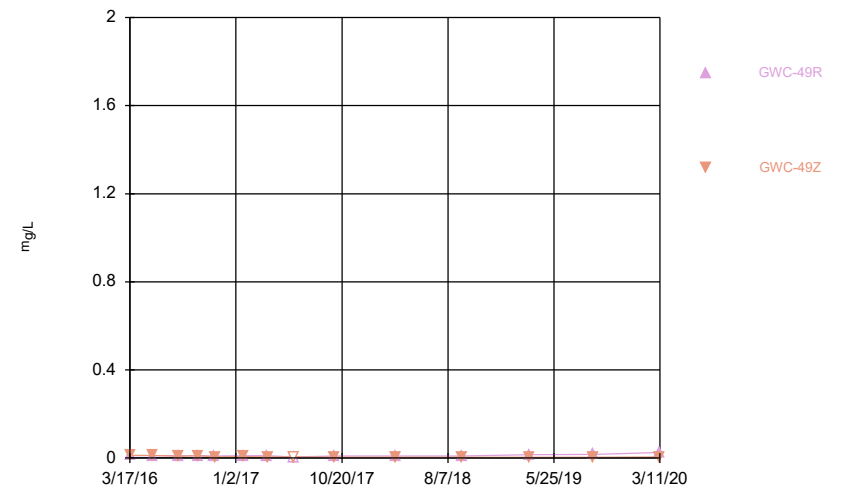
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



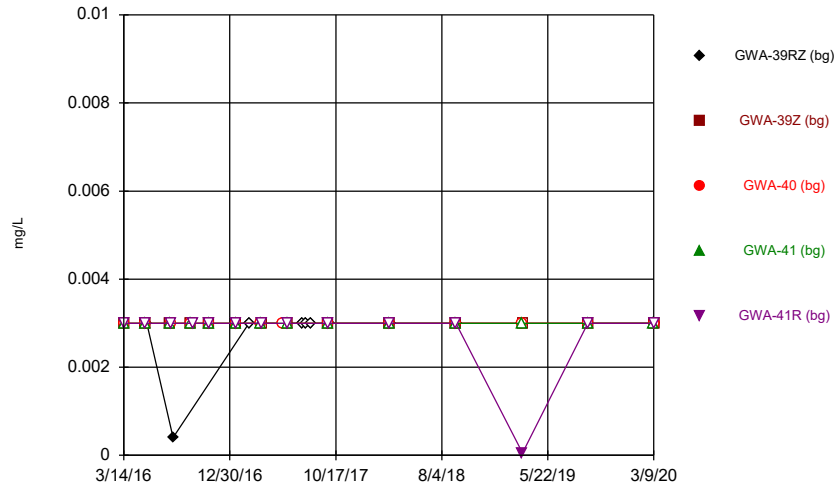
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



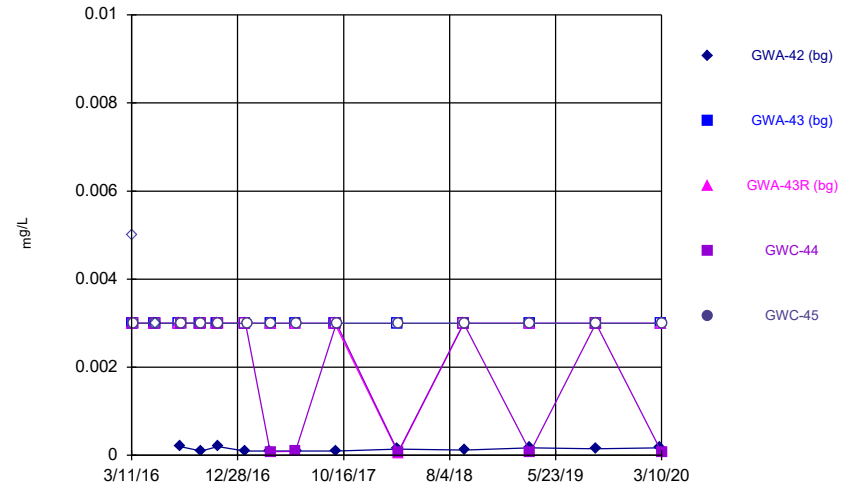
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



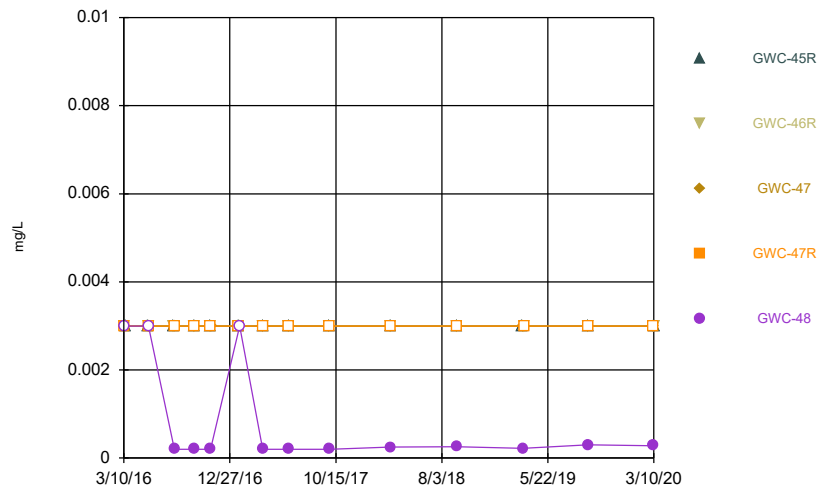
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



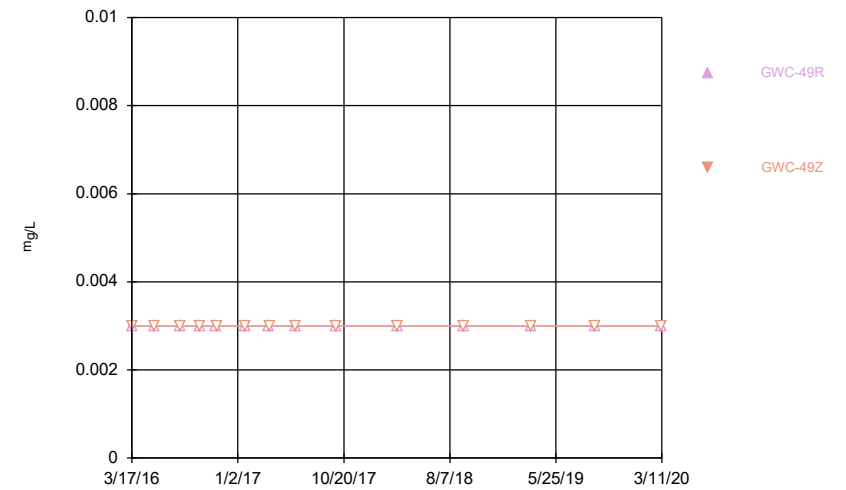
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



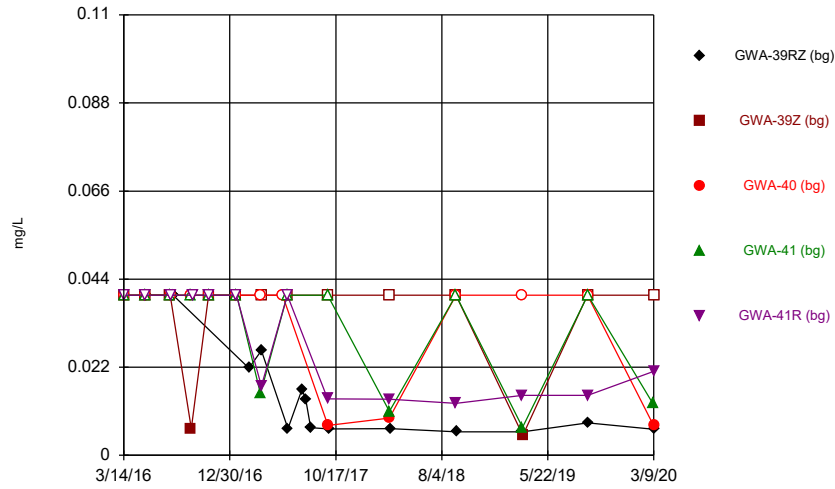
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



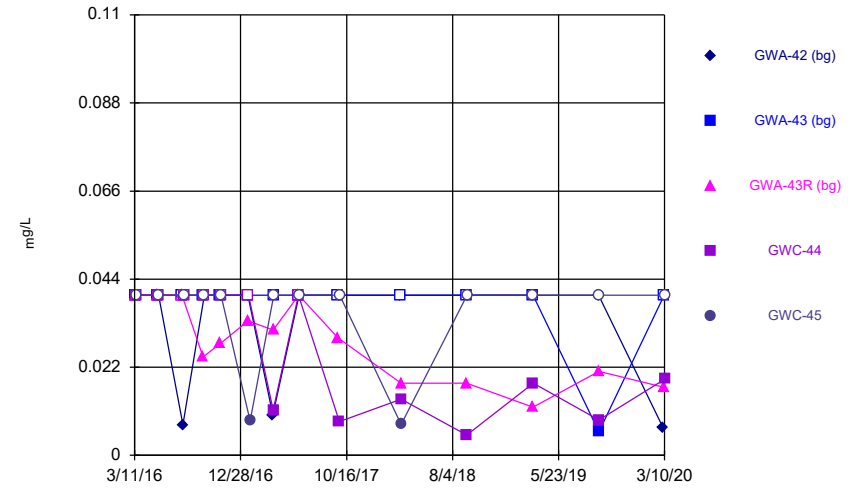
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



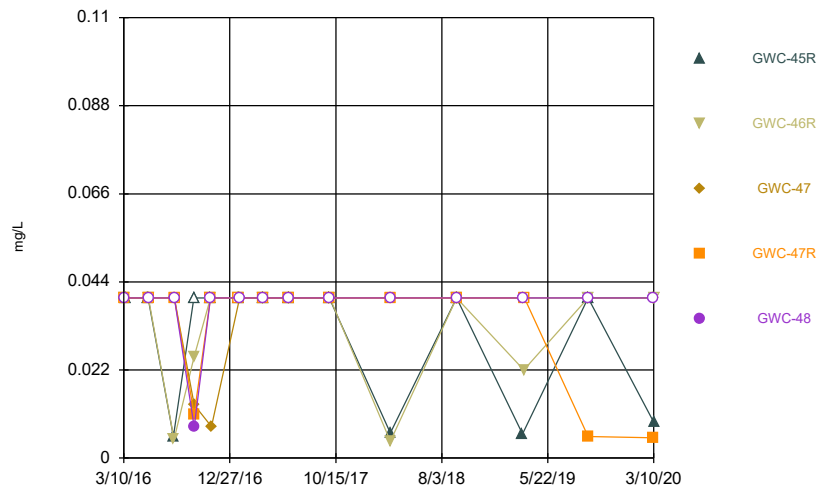
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



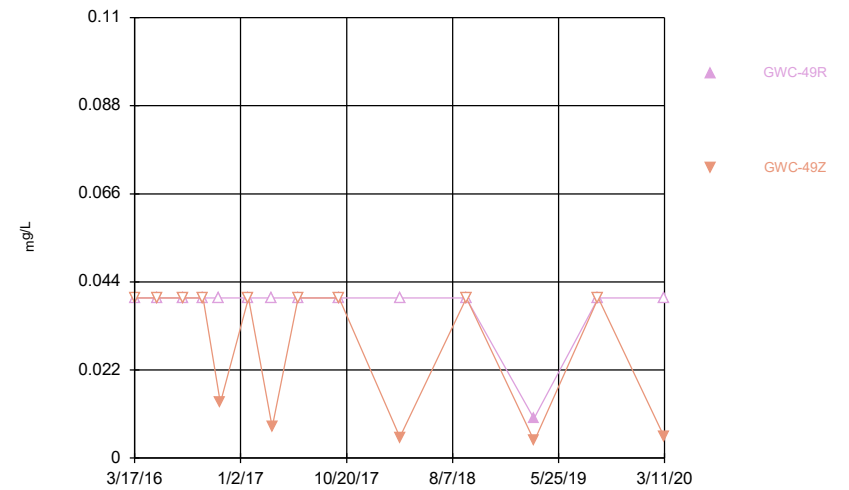
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



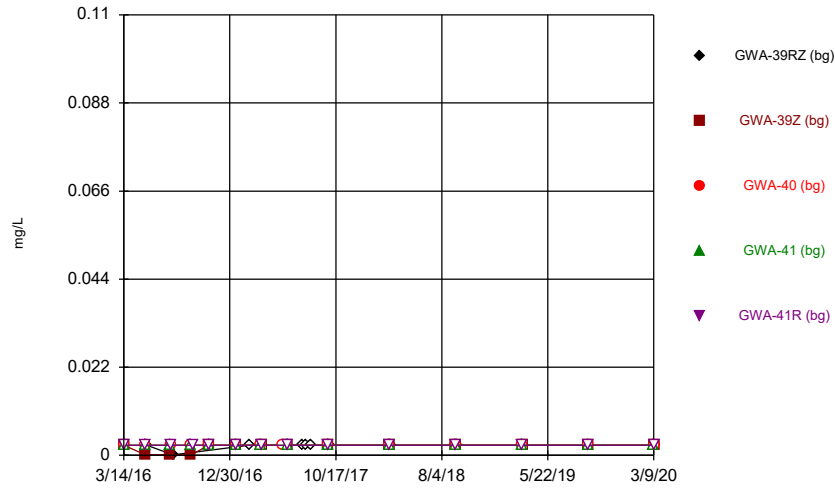
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



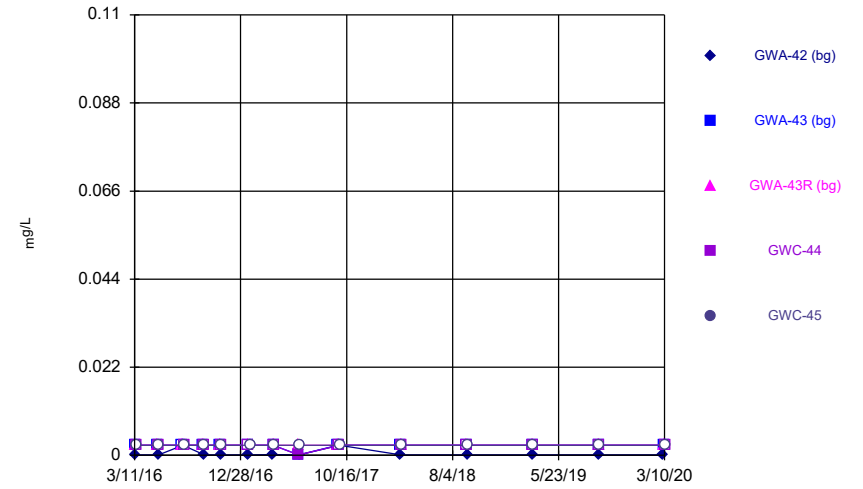
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



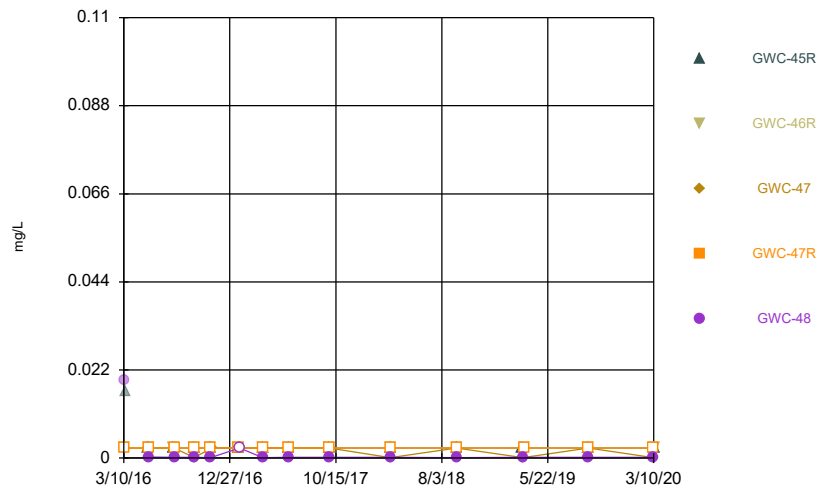
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



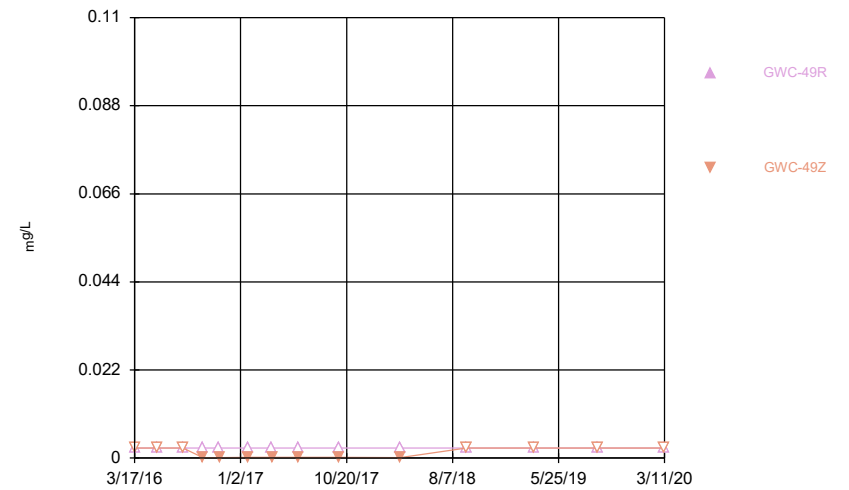
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



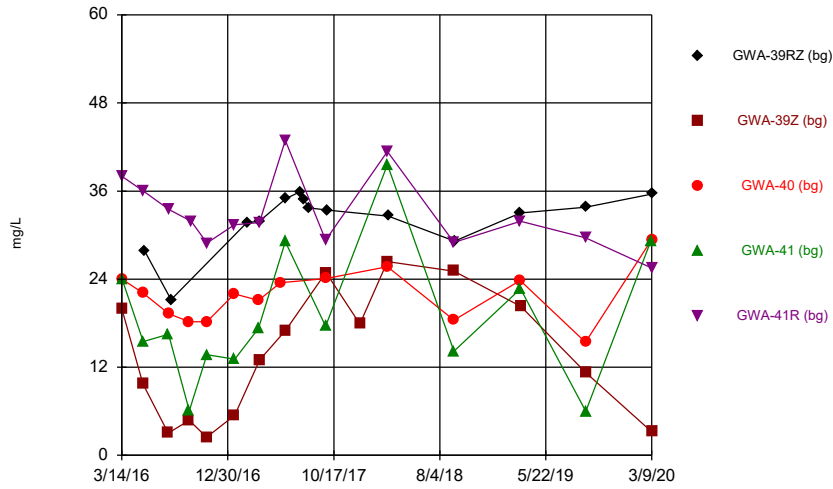
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



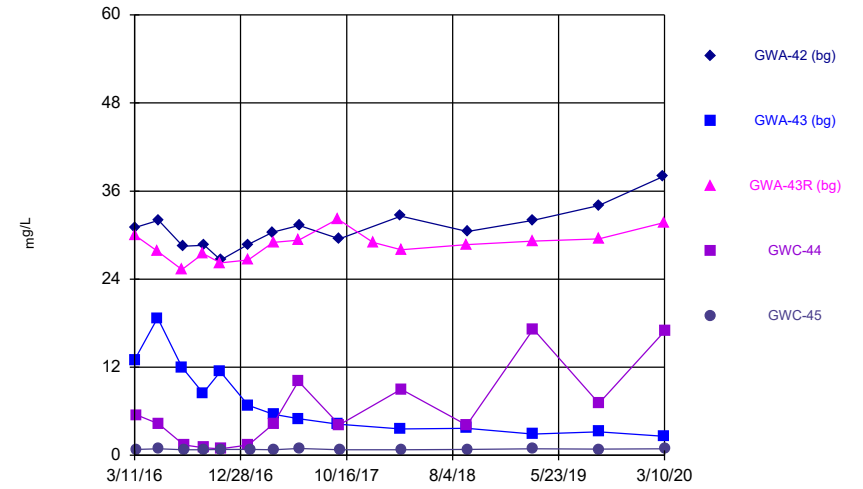
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



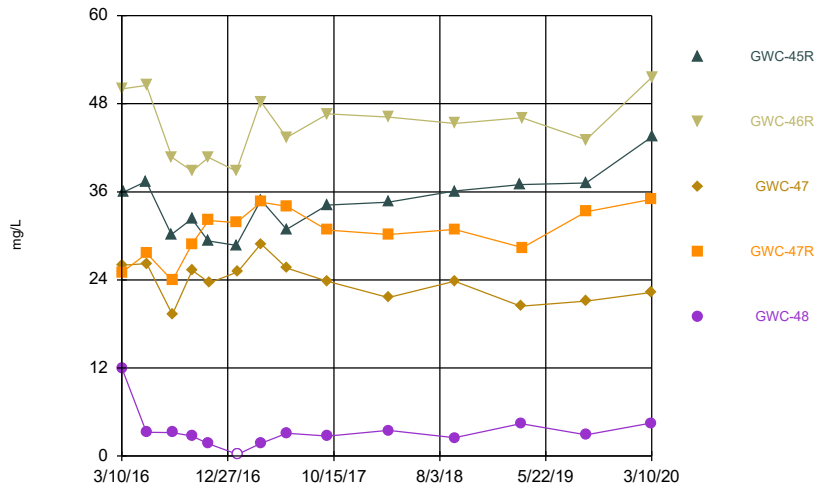
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



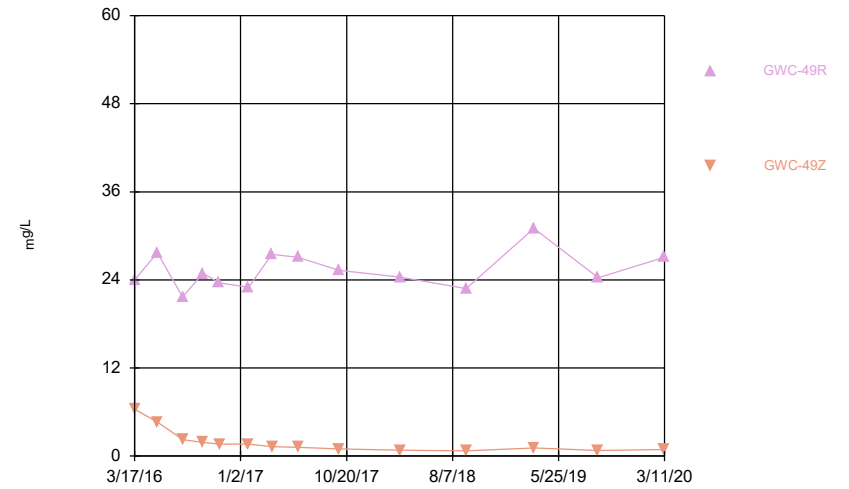
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



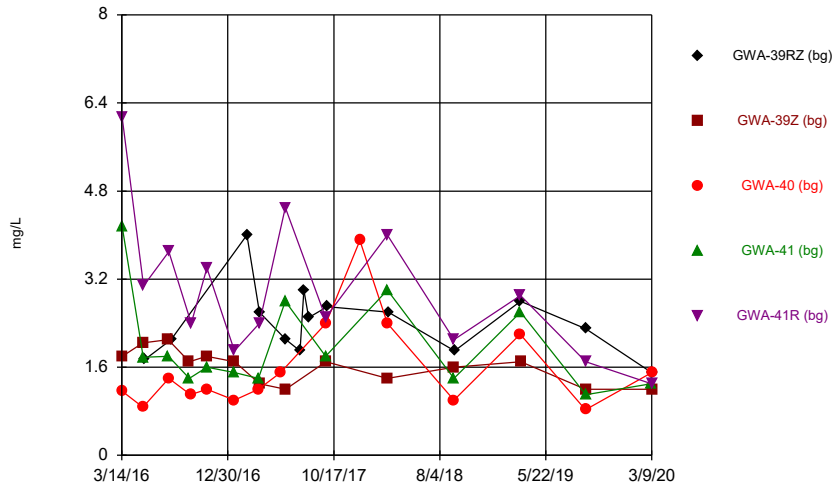
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



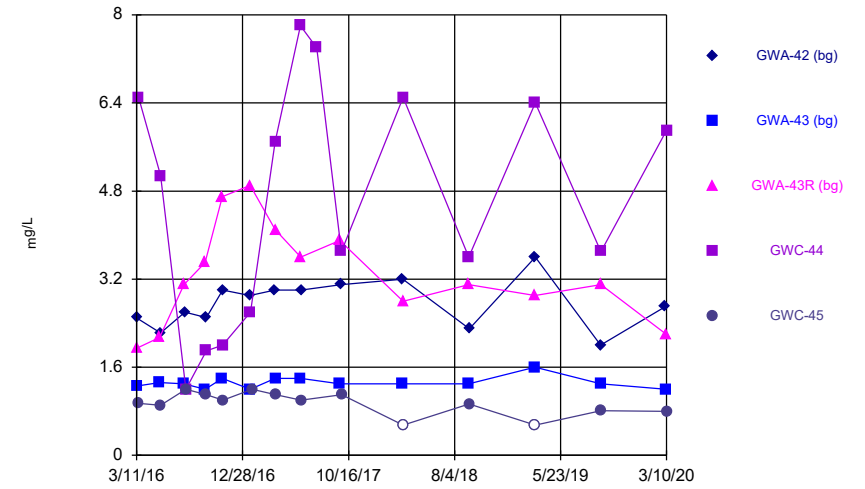
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



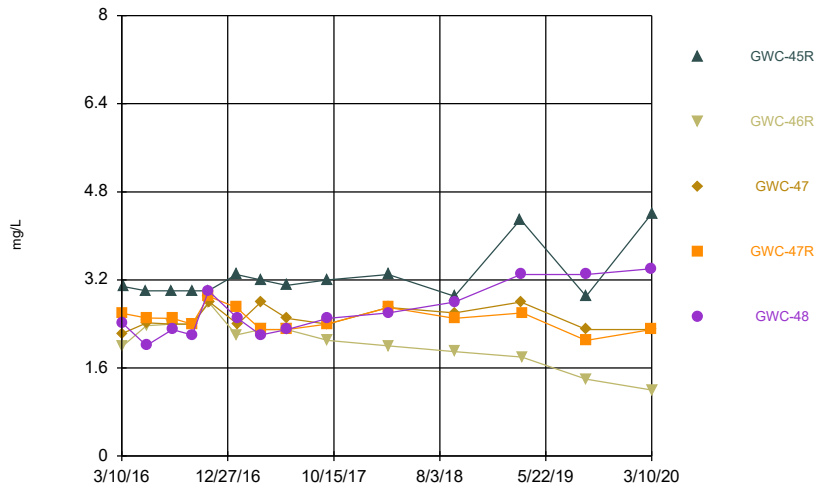
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



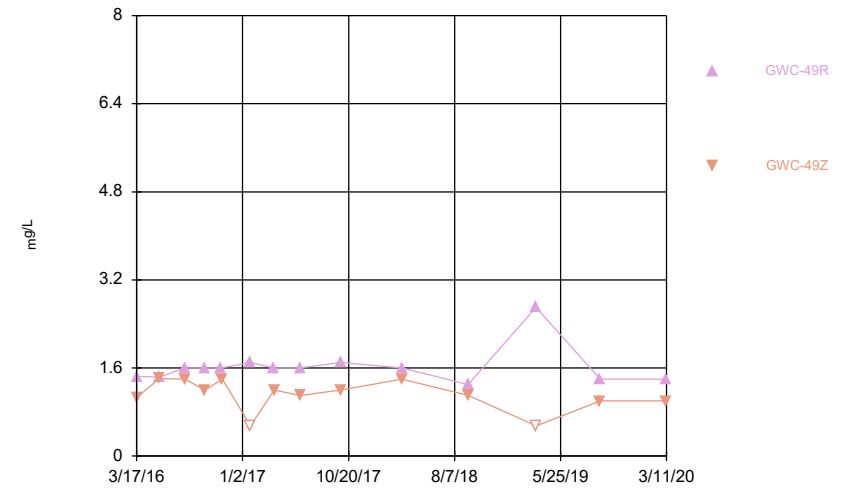
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



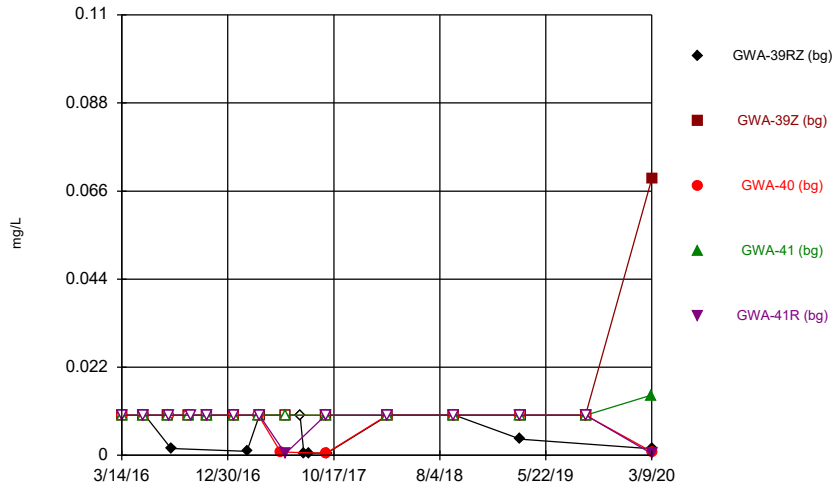
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



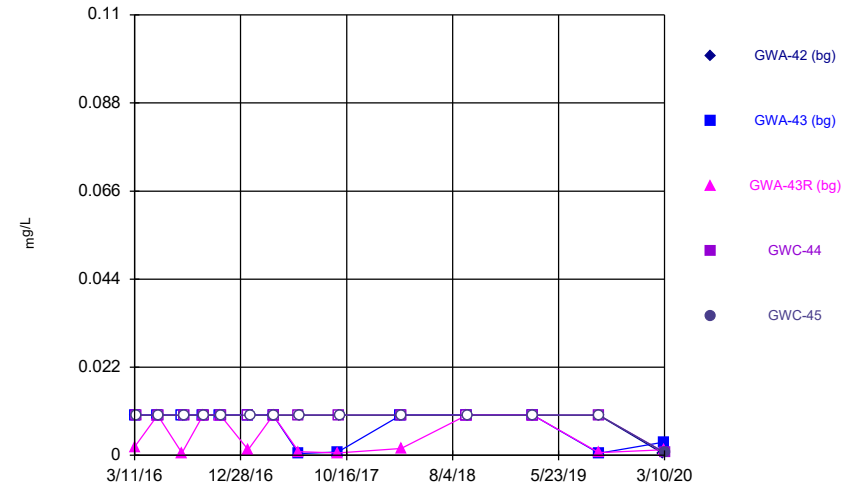
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



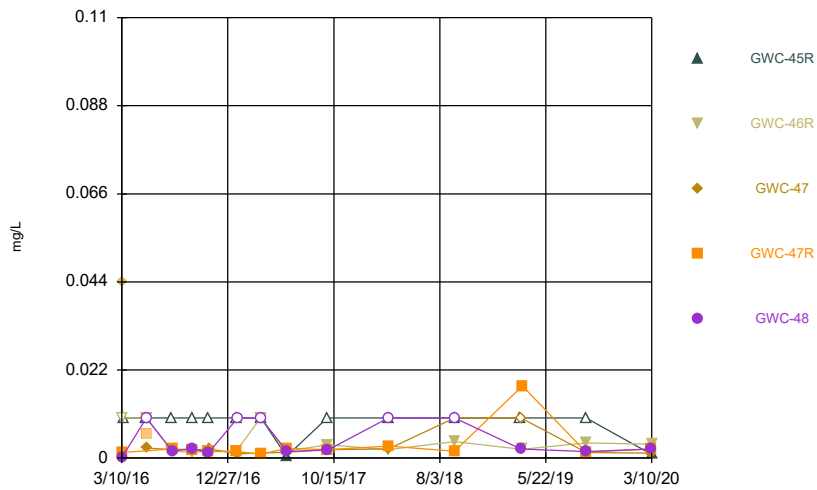
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



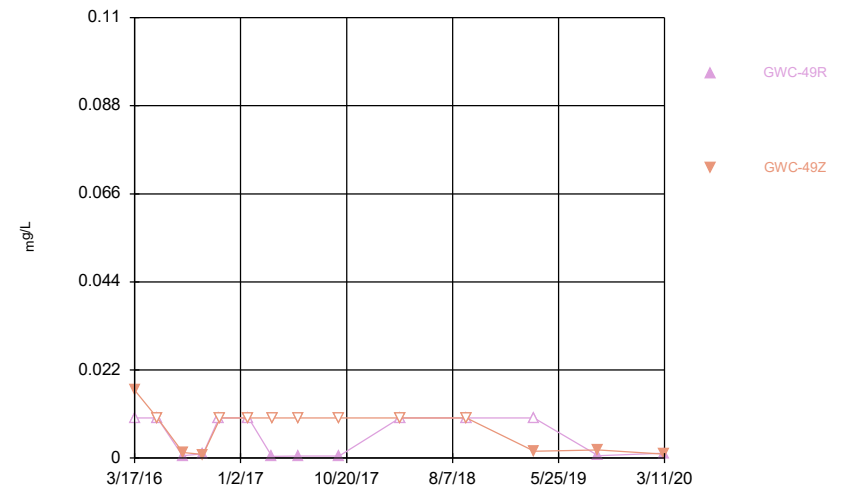
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



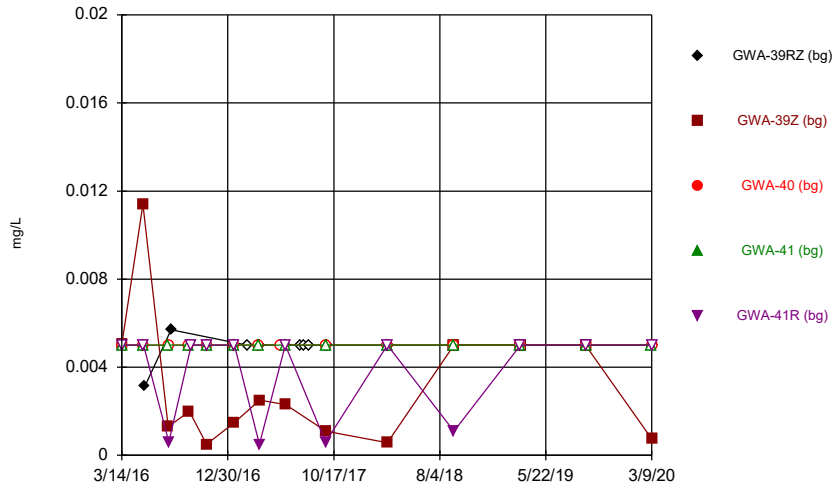
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



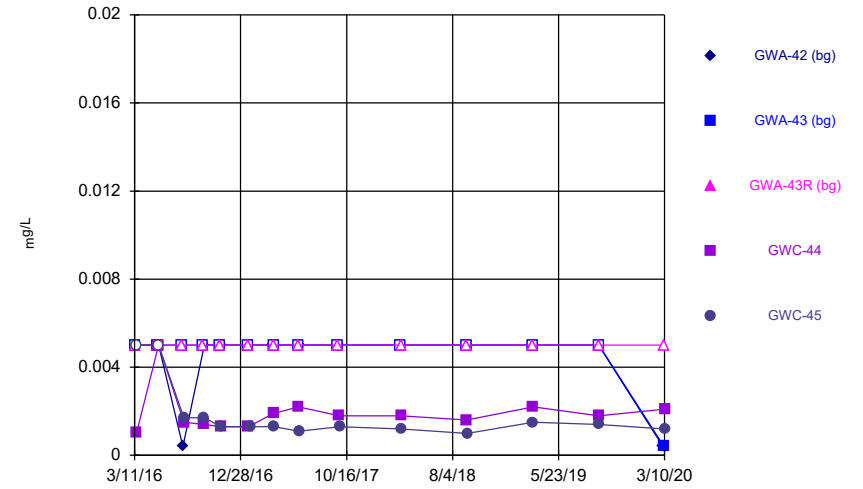
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



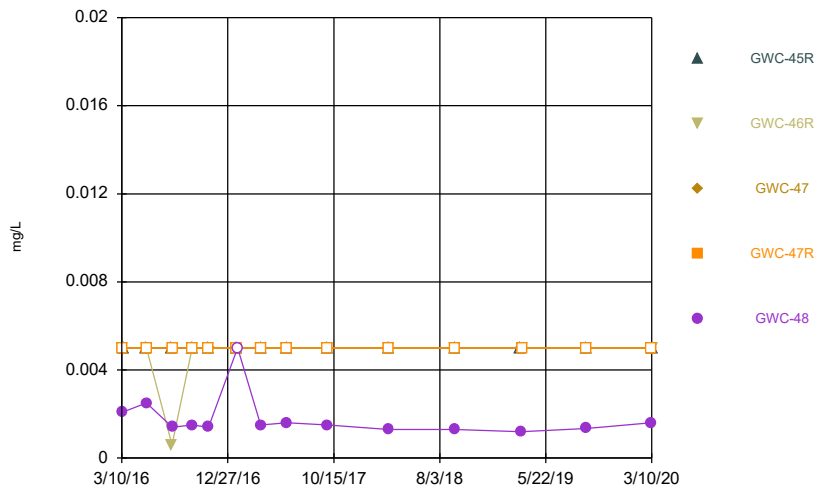
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



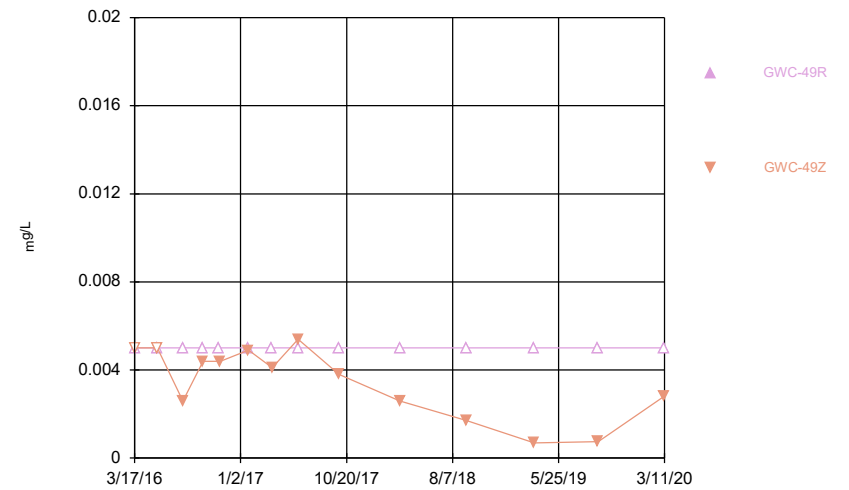
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



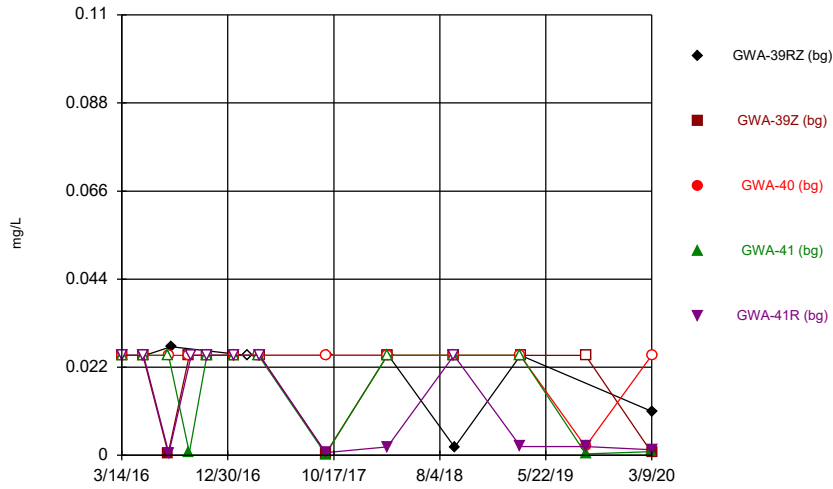
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



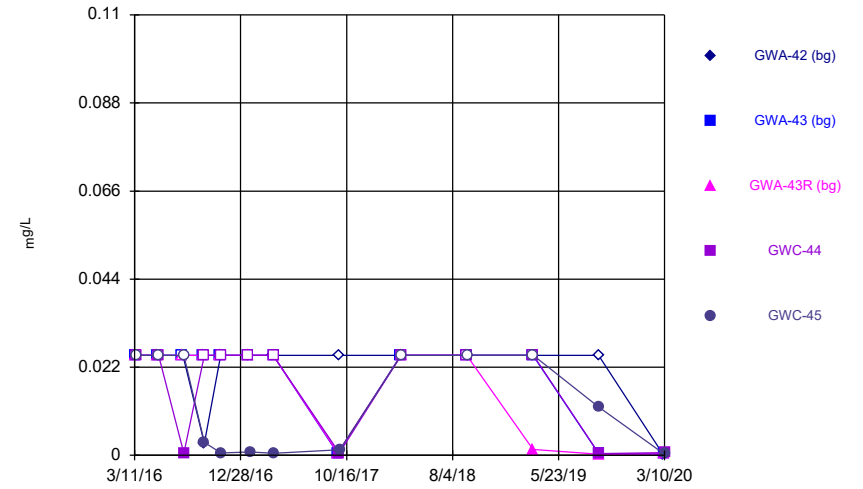
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



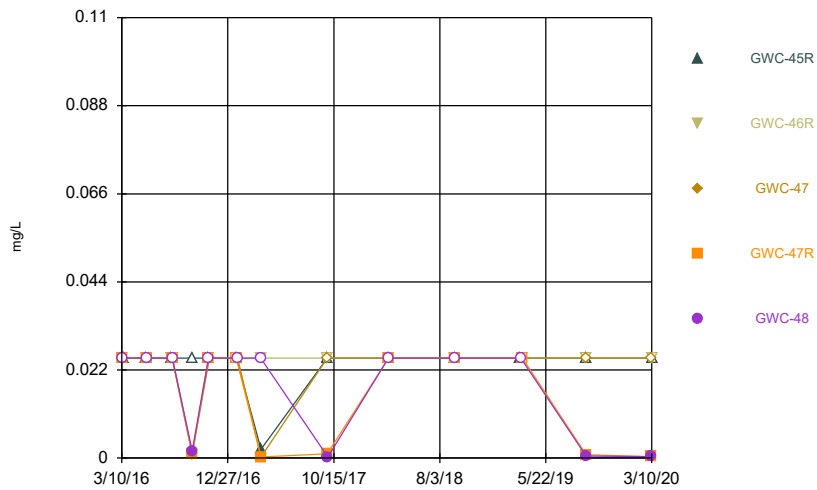
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



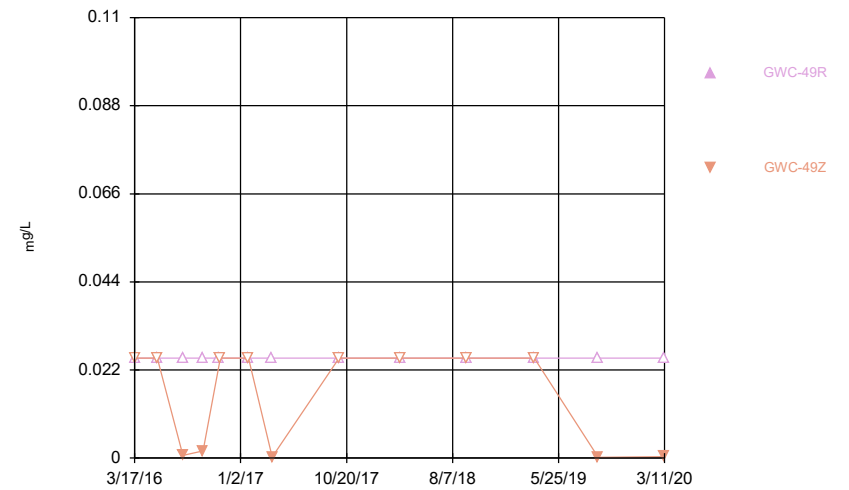
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



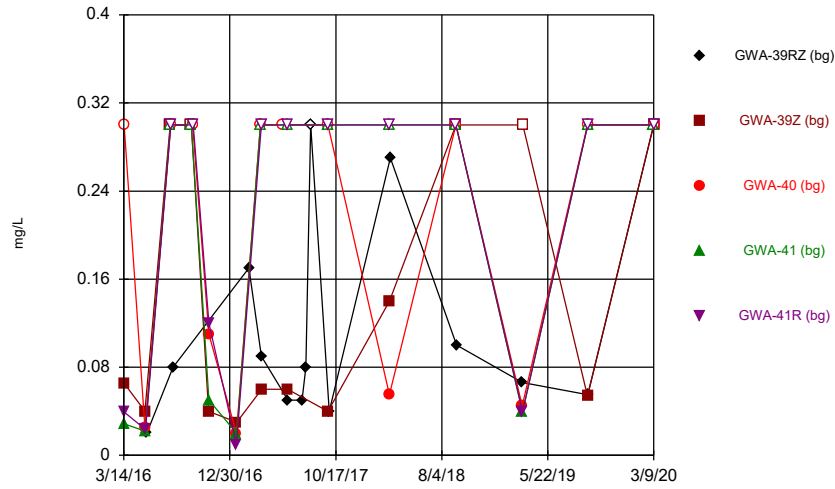
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Time Series



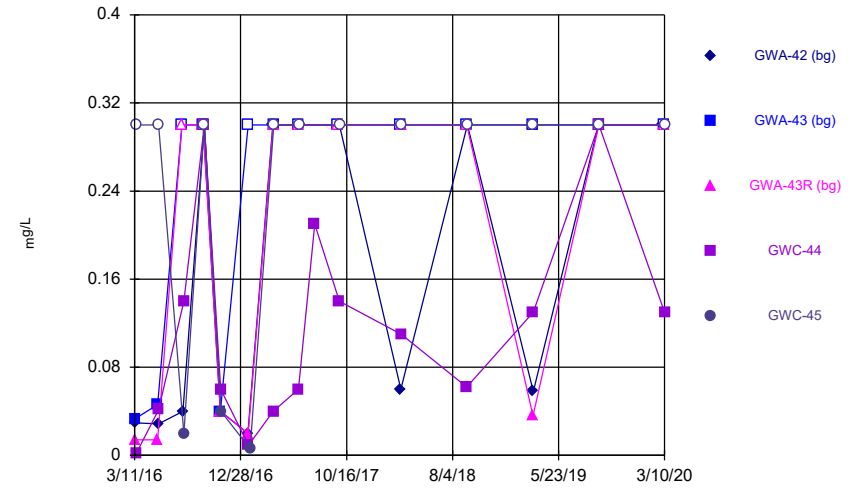
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Time Series



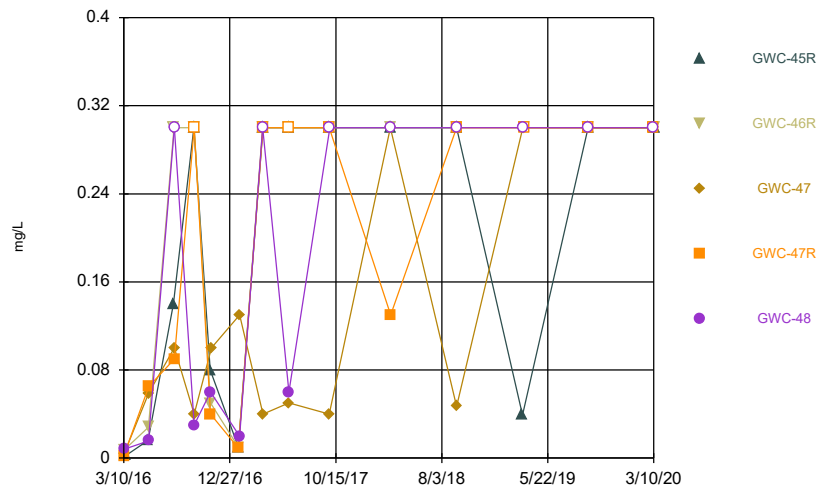
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



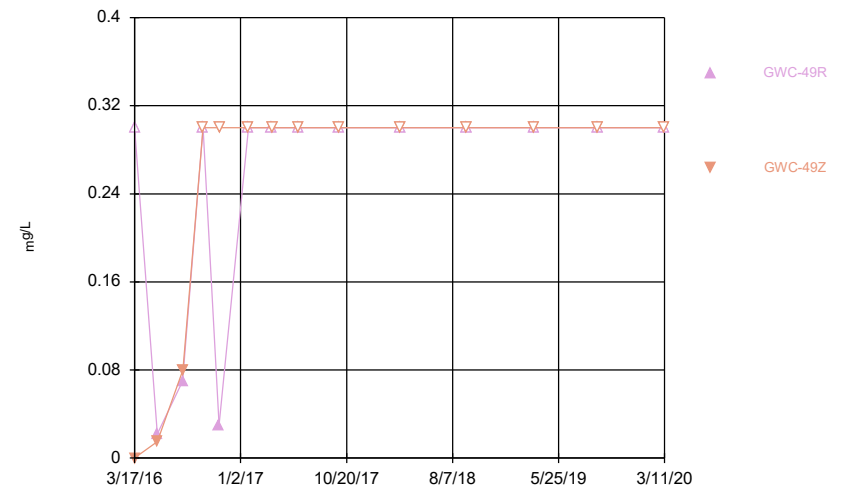
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Time Series



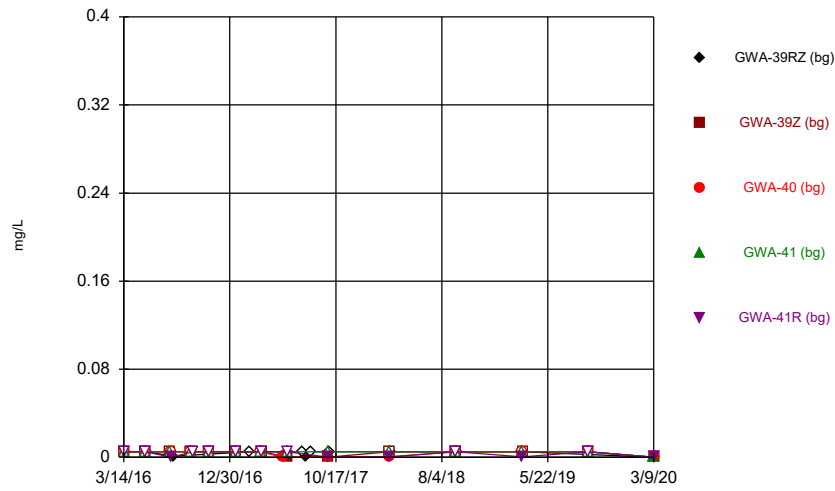
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Time Series



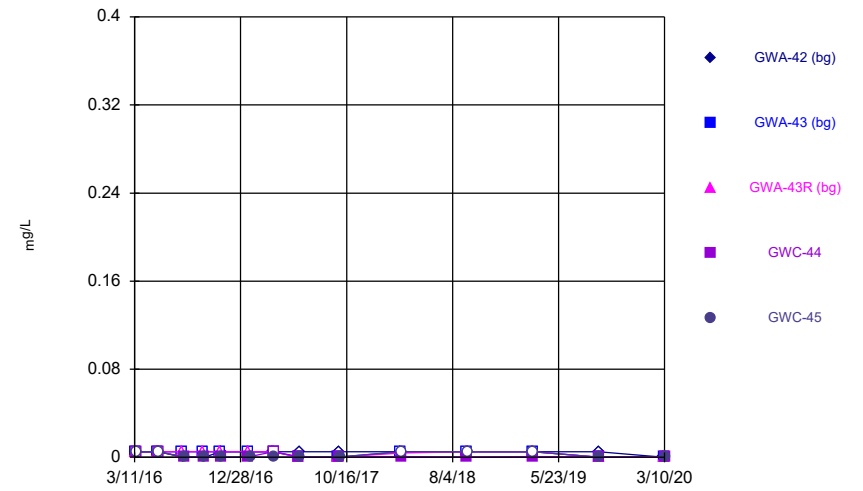
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Time Series



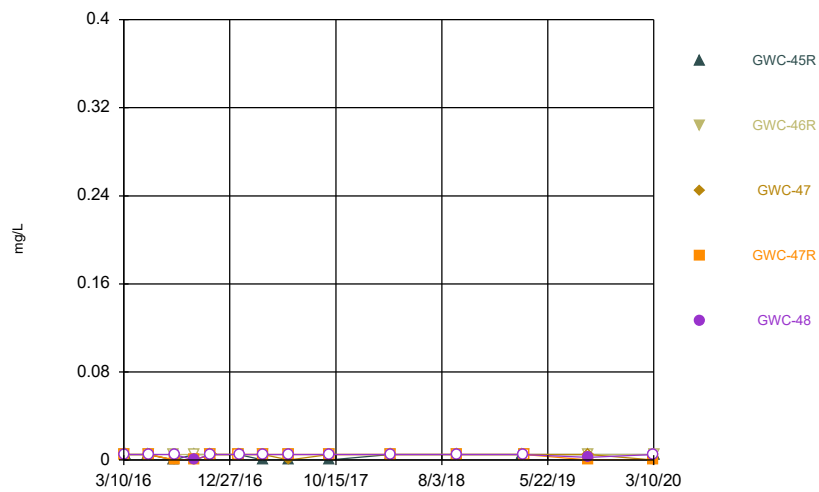
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Time Series



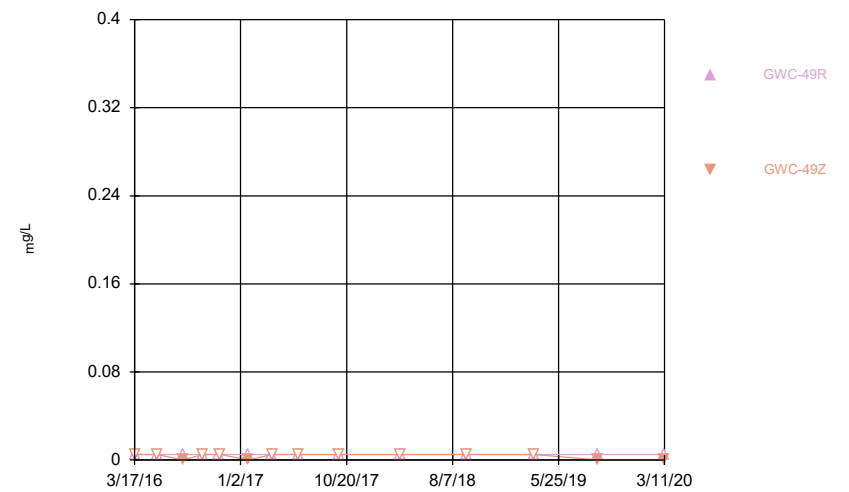
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Time Series



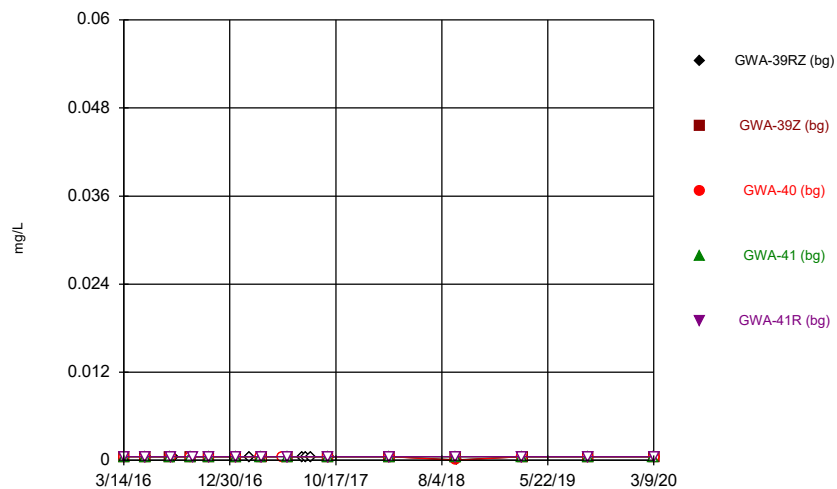
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Time Series



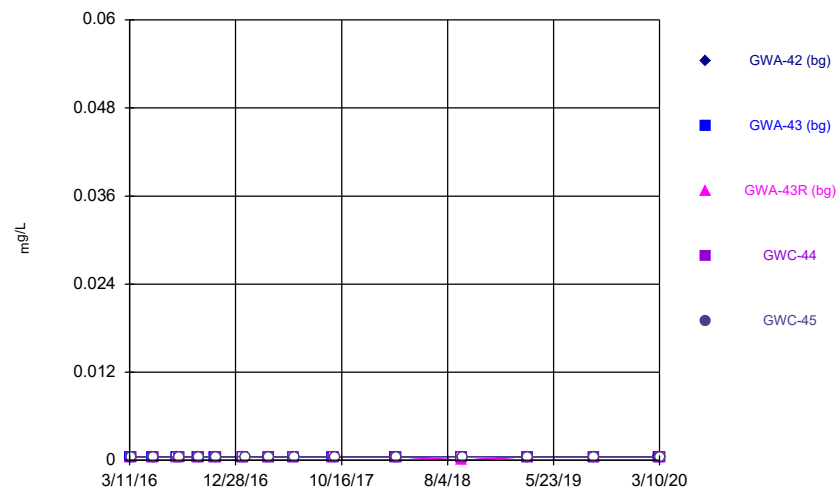
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Time Series



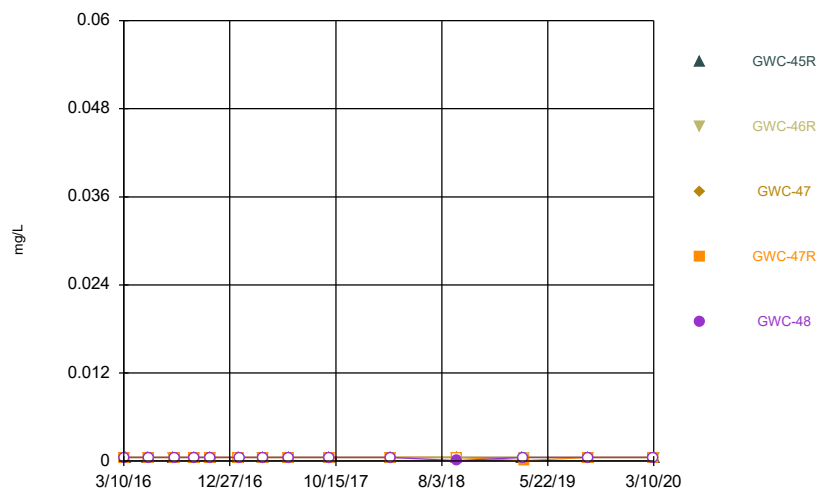
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



Constituent: Mercury Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



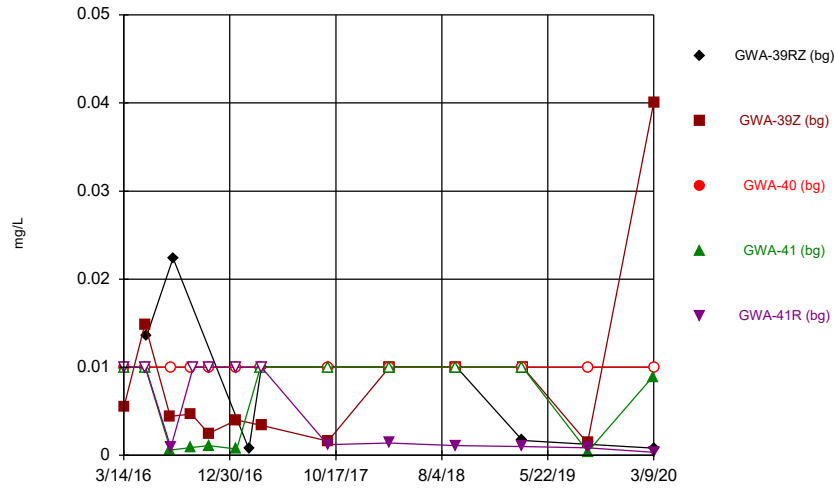
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



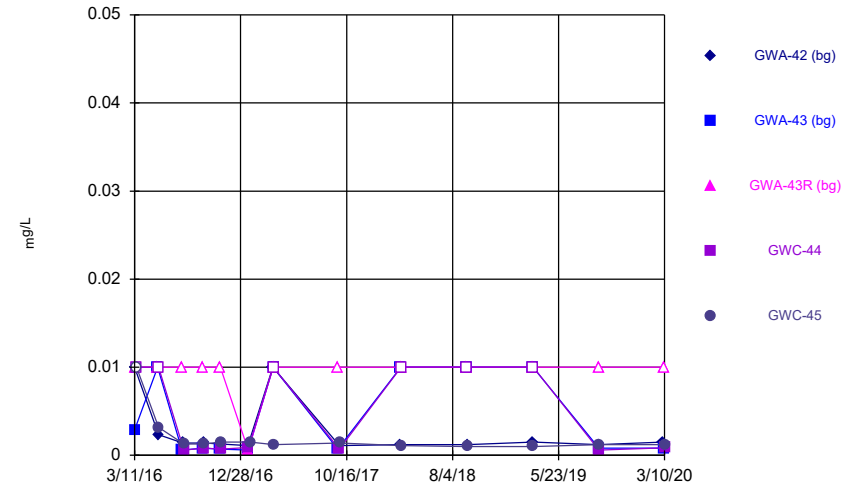
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Time Series



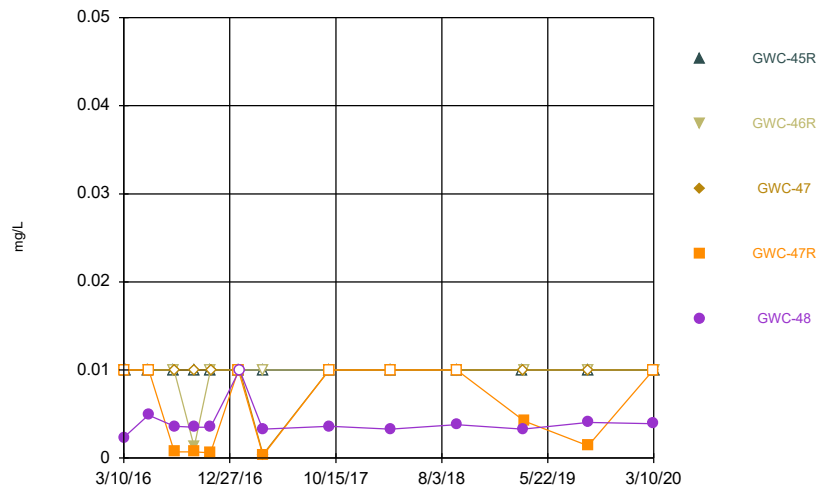
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



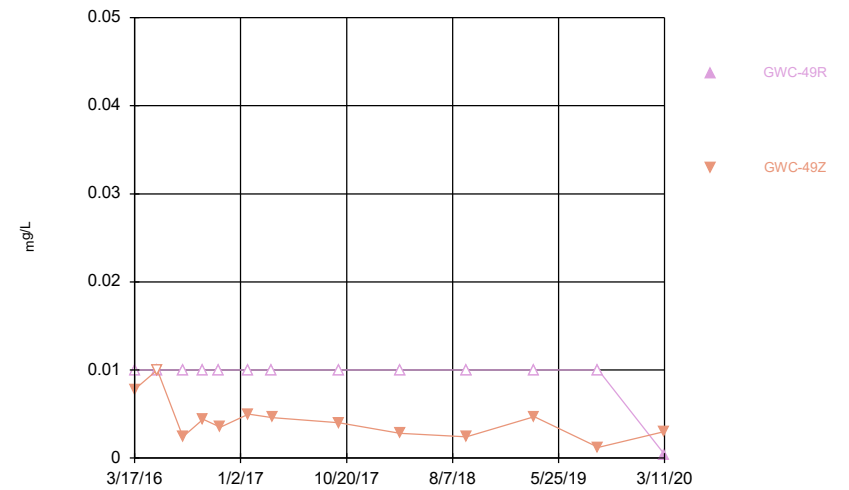
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



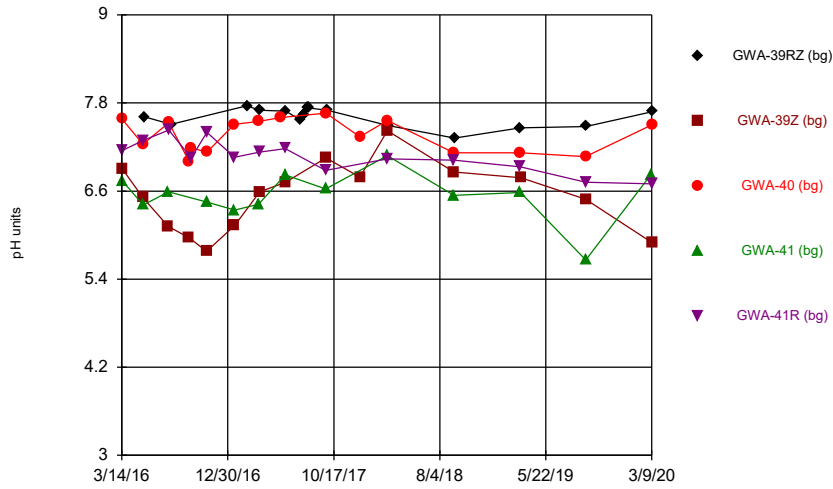
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



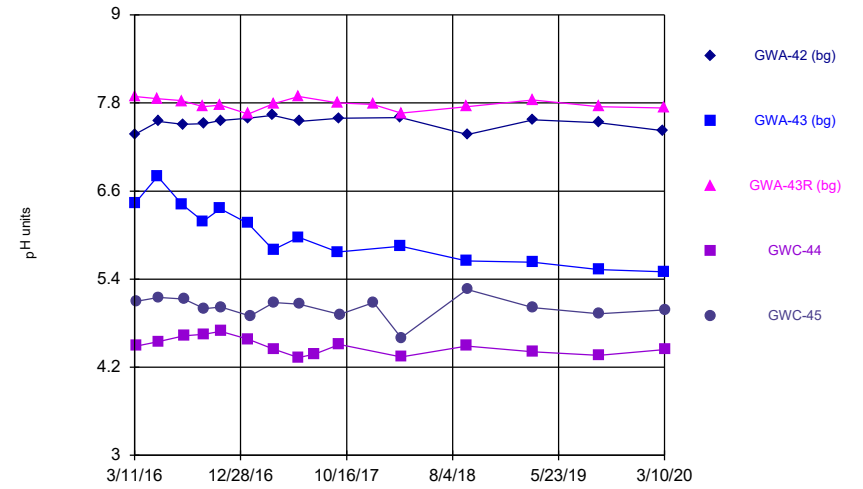
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



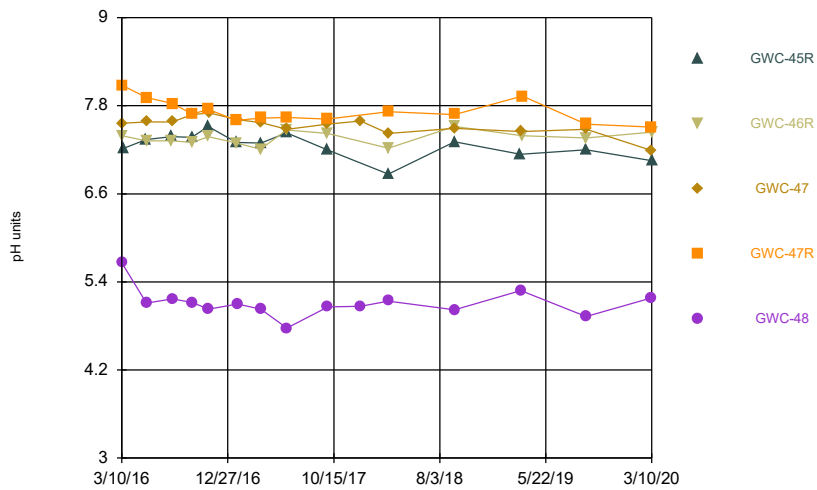
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



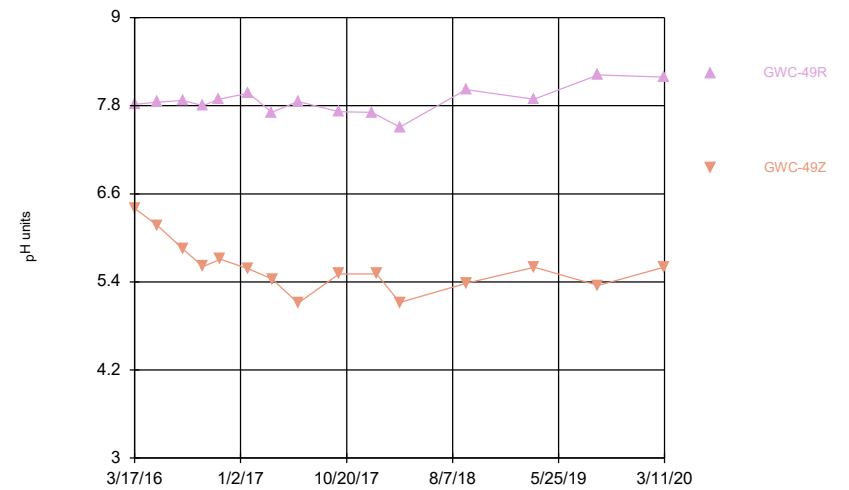
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



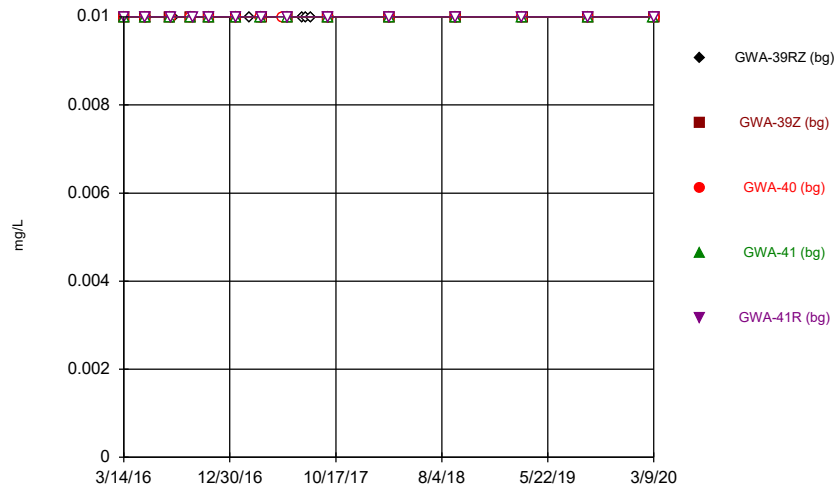
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



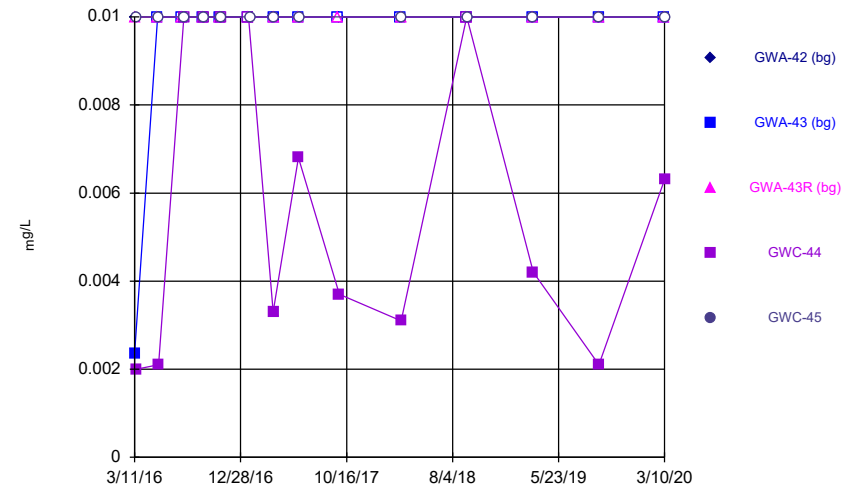
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



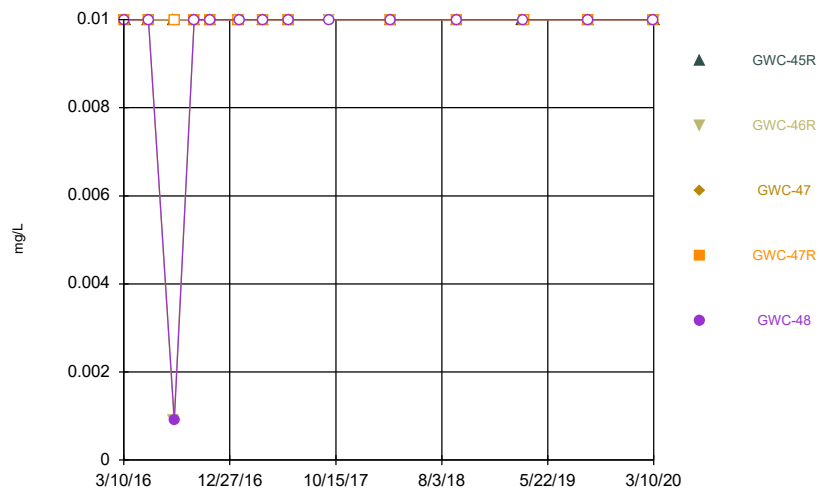
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



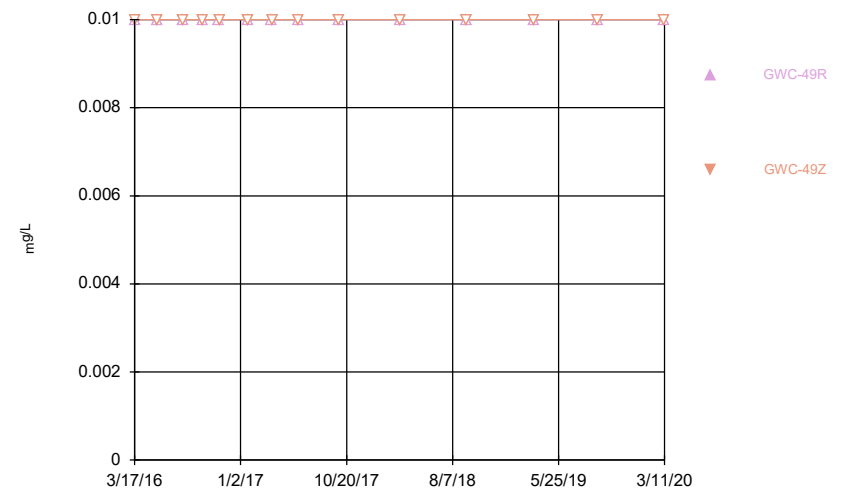
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Time Series



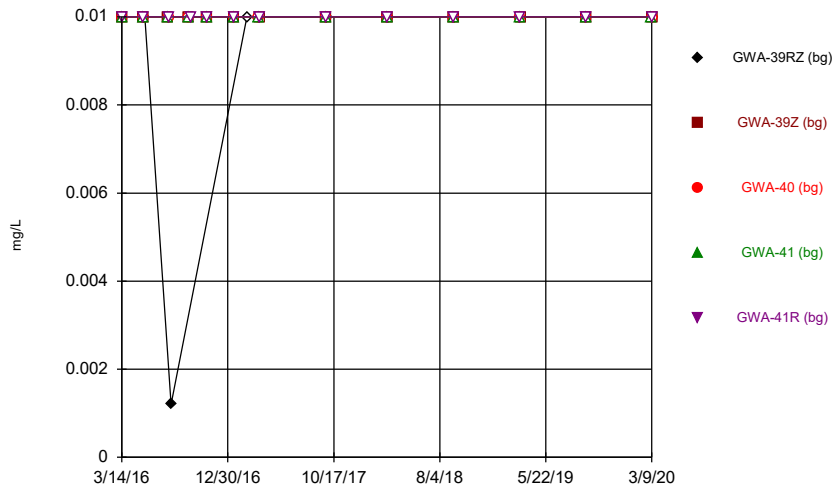
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



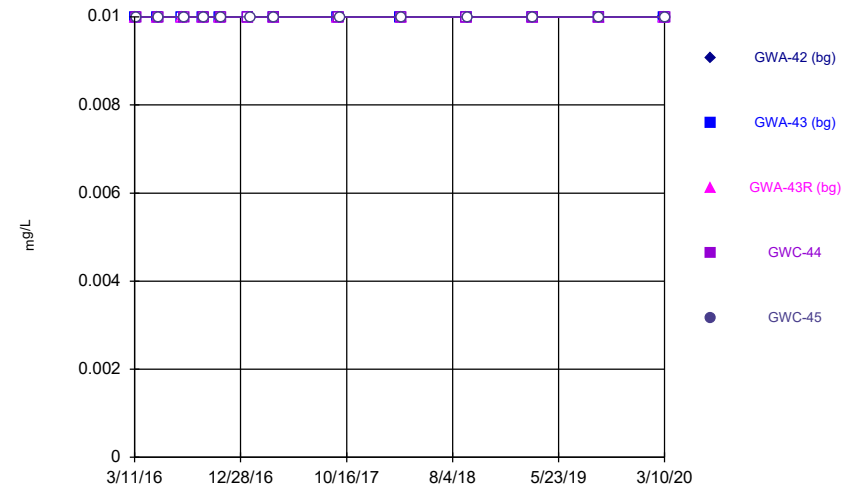
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



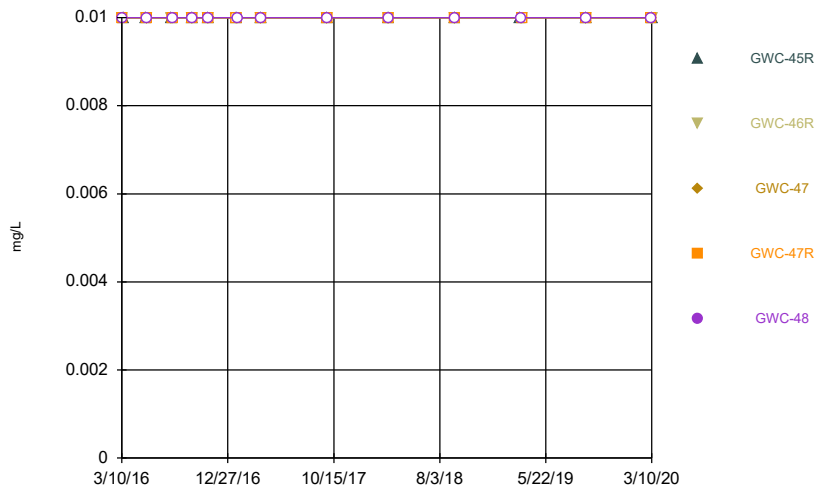
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



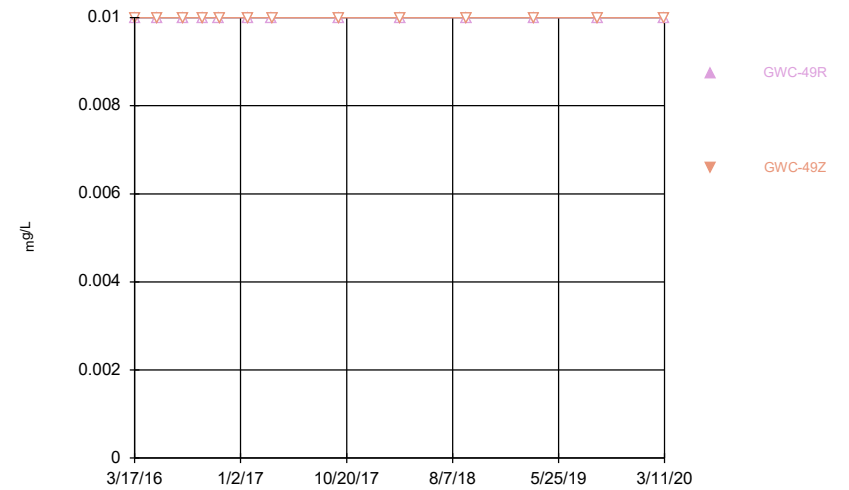
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



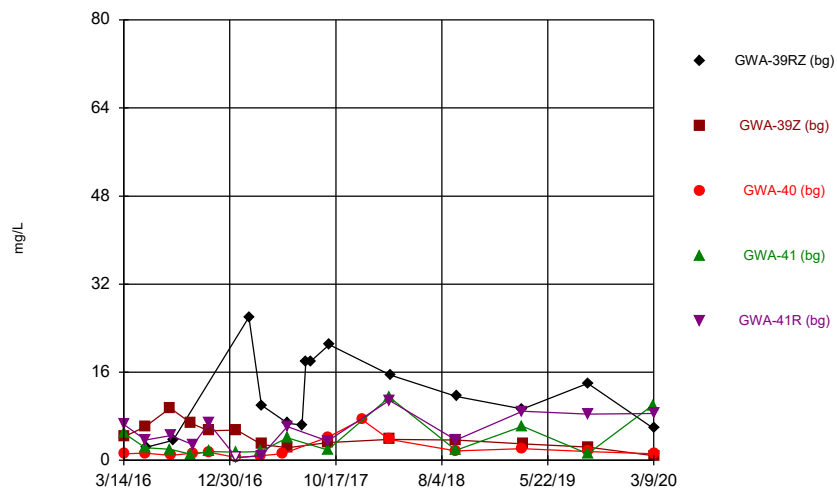
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



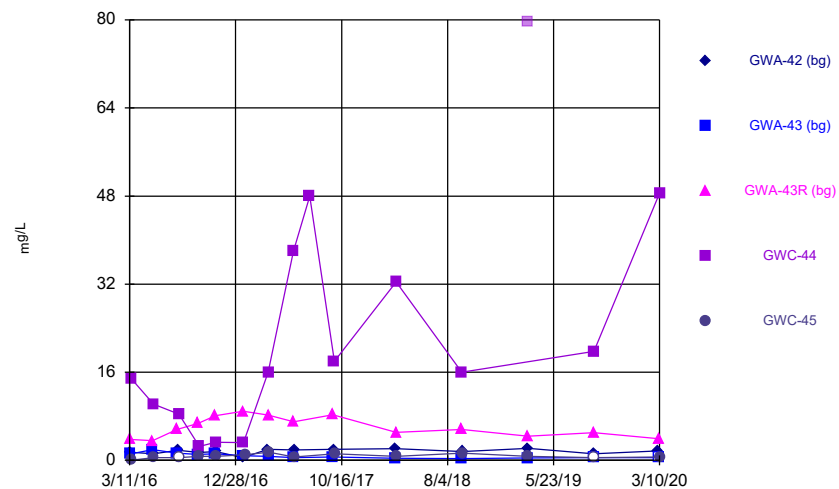
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



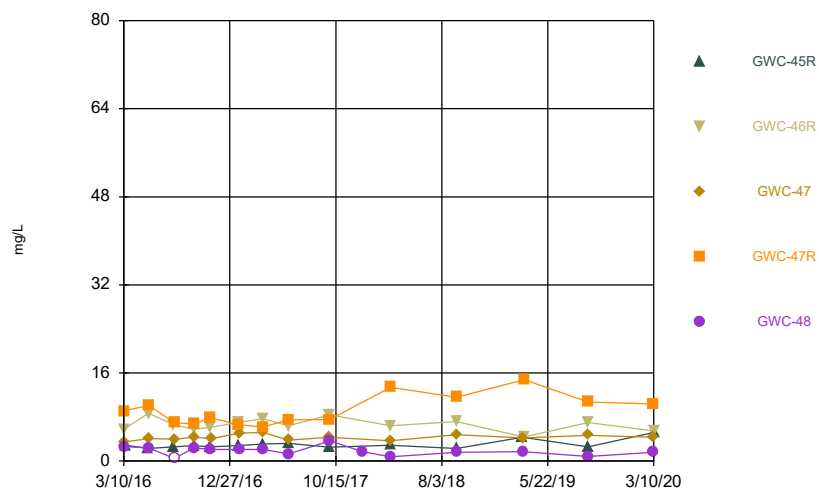
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



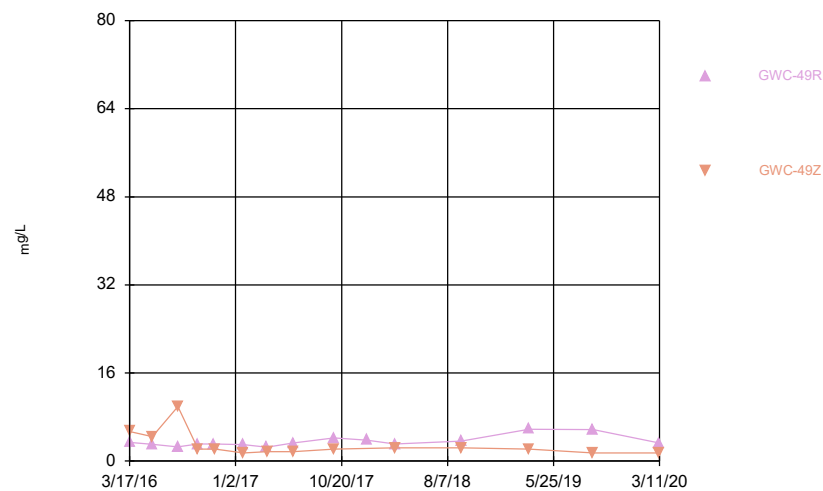
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



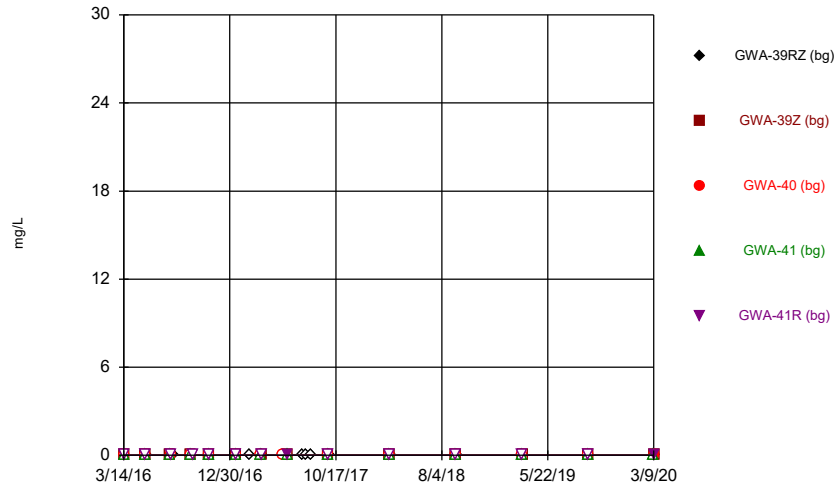
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



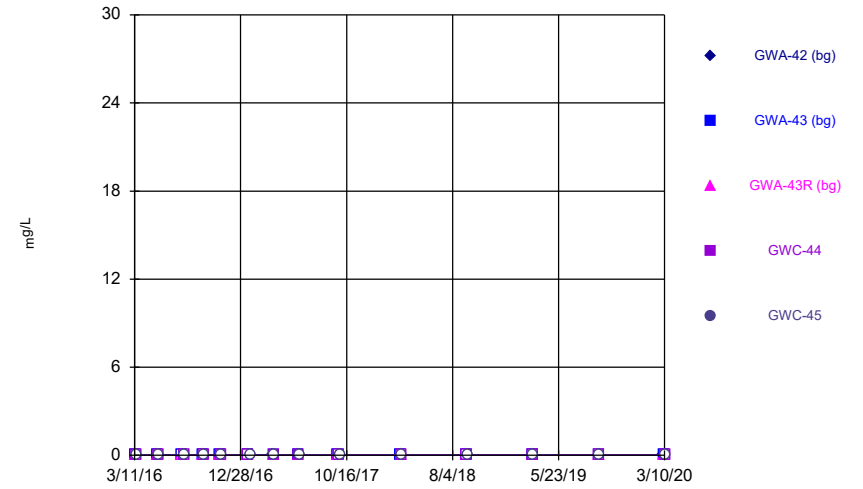
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Time Series



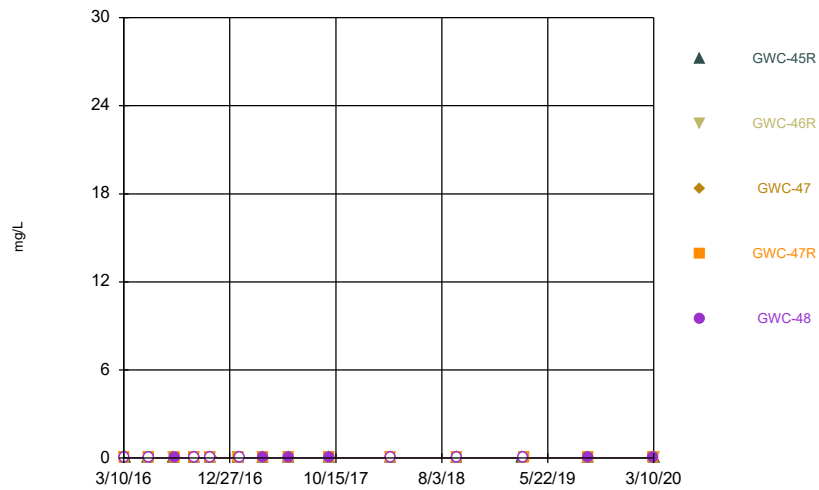
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Time Series



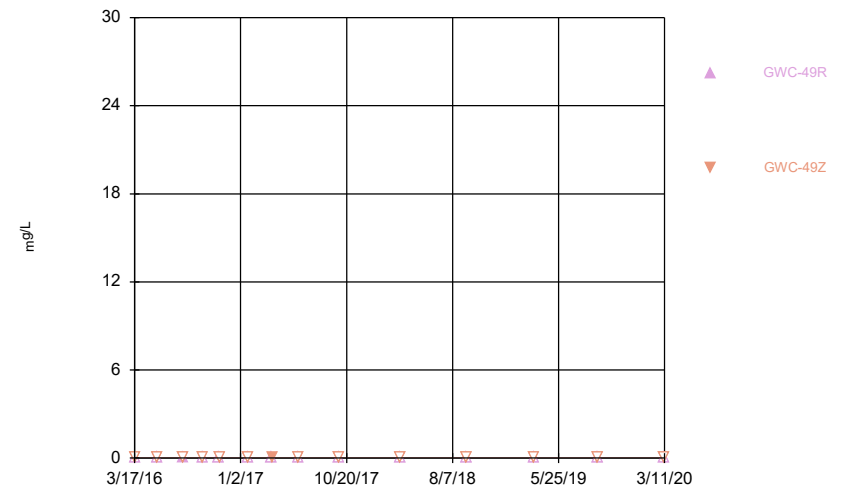
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Time Series



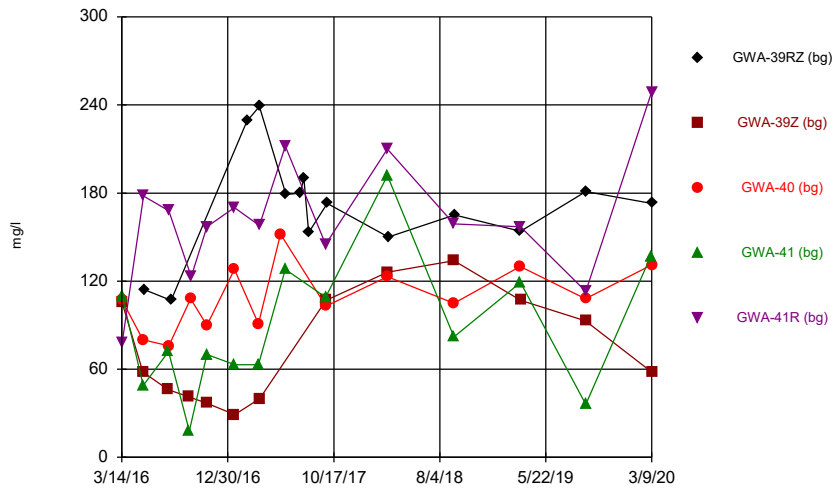
Constituent: Thallium Analysis Run 4/17/2020 7:19 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



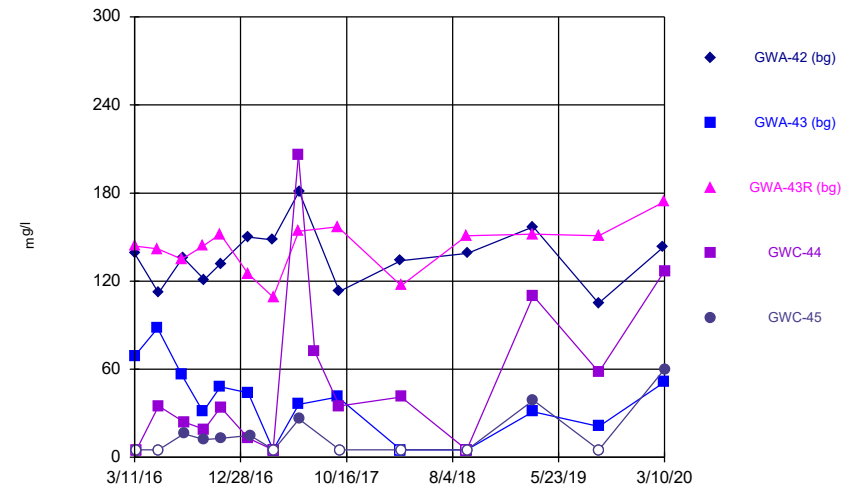
Constituent: Thallium Analysis Run 4/17/2020 7:19 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



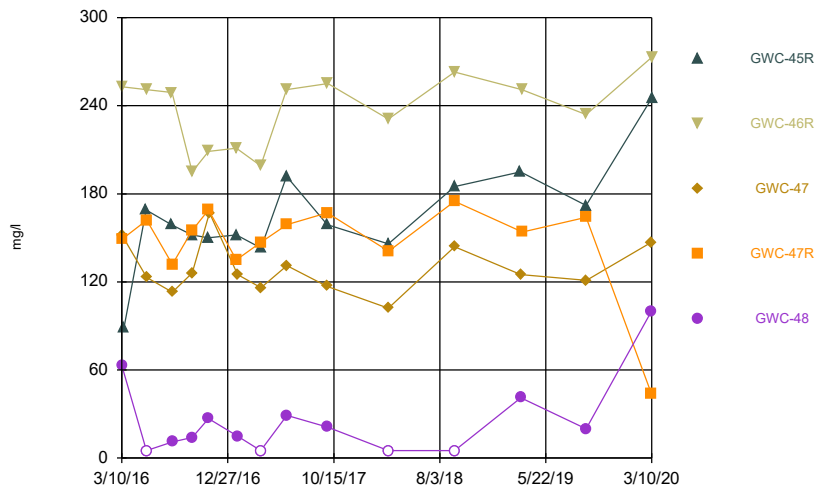
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



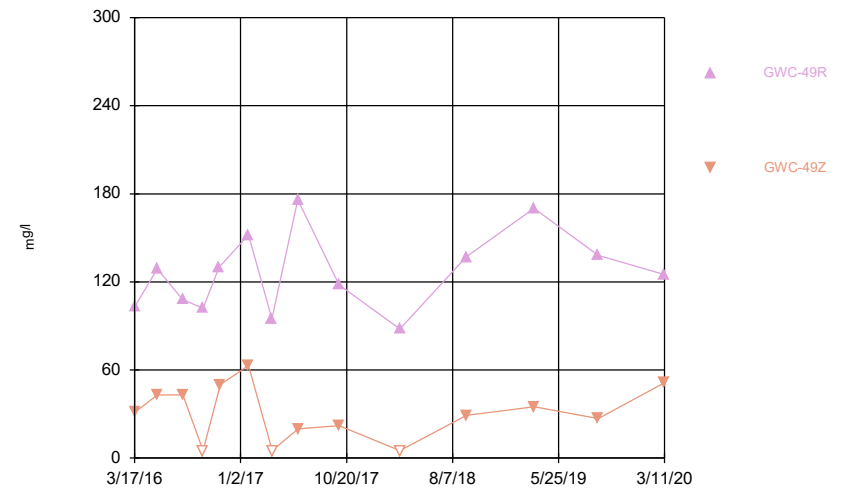
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



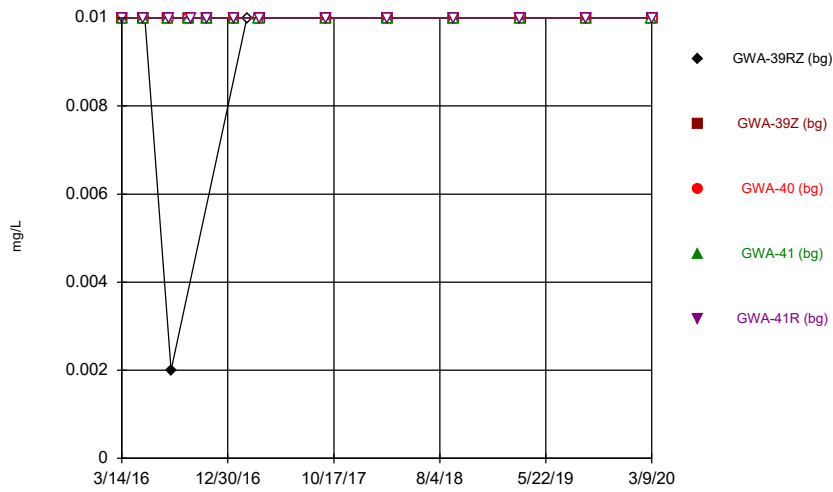
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



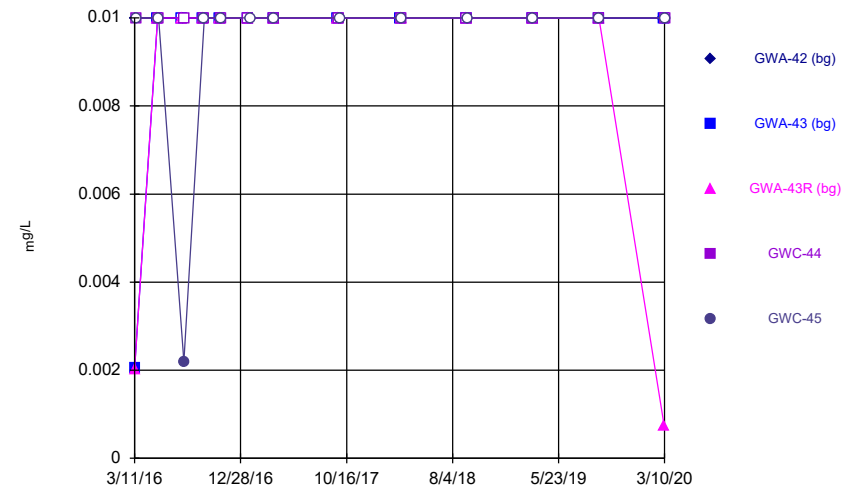
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



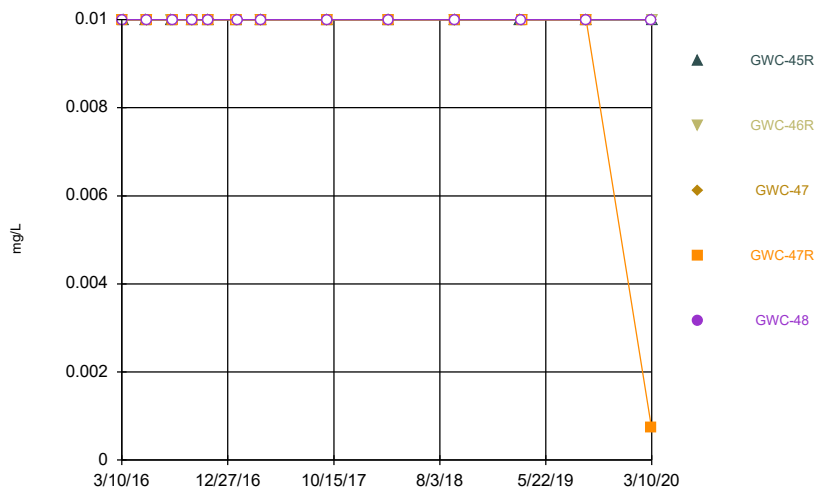
Constituent: Vanadium Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



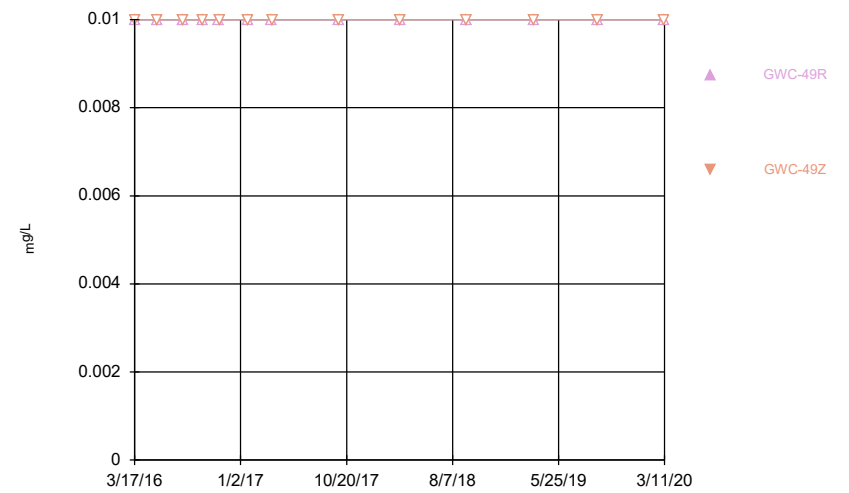
Constituent: Vanadium Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



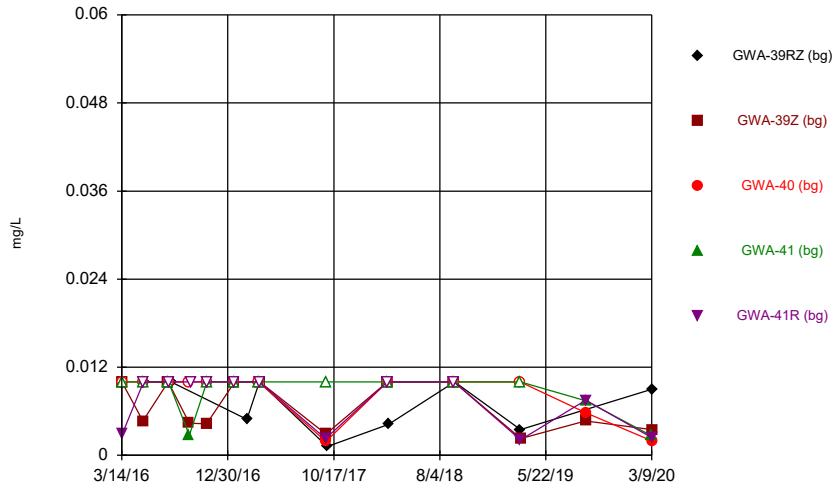
Constituent: Vanadium Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



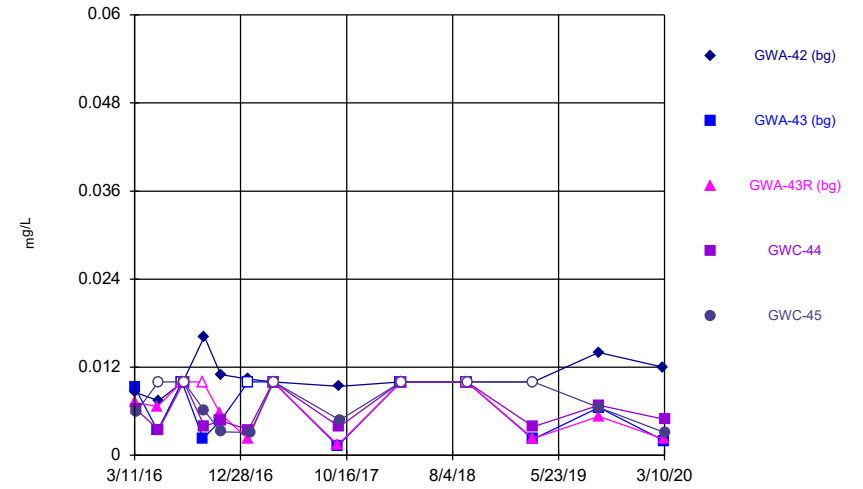
Constituent: Vanadium Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



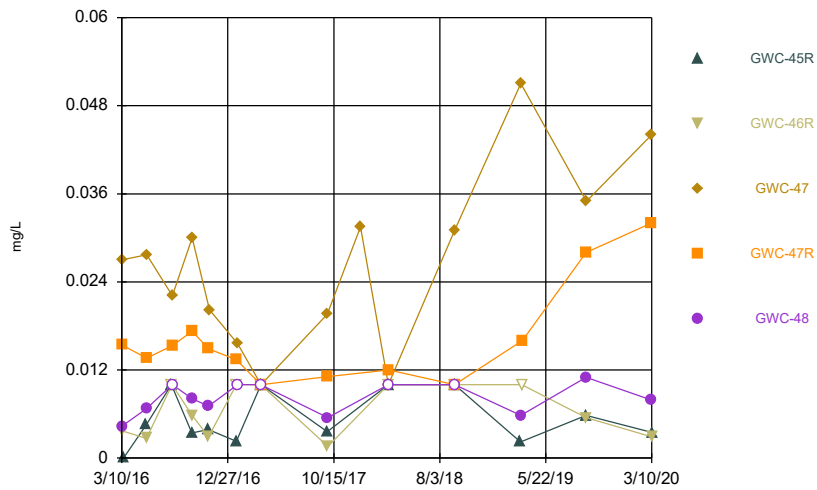
Constituent: Zinc Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



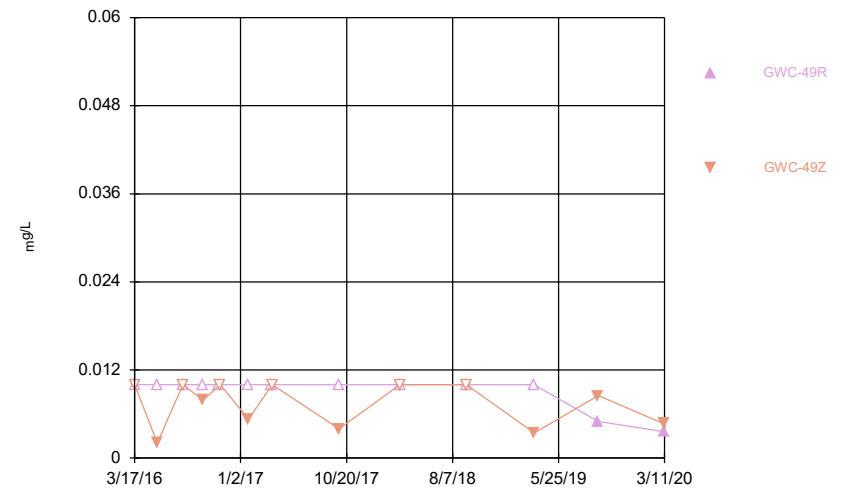
Constituent: Zinc Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



Constituent: Zinc Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



Constituent: Zinc Analysis Run 4/17/2020 7:19 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.003	<0.003	<0.003	
3/14/2016		0.003							
3/15/2016			<0.003	<0.003	<0.003				
3/16/2016									<0.003
5/11/2016		0.000839 (J)	<0.003						
5/12/2016				<0.003					
5/13/2016					<0.003		<0.003	<0.003	
5/16/2016	<0.003 (D)					<0.003			<0.003
7/19/2016		0.0024 (J)					<0.003 (*)	<0.003	
7/20/2016				<0.003					
7/21/2016			<0.003		<0.003 (*)				
7/22/2016						0.002 (J)			
7/25/2016									<0.003 (*)
7/27/2016	0.0003 (JD)								
9/15/2016		0.0009 (J)	<0.003	<0.003					
9/16/2016							<0.003	<0.003	
9/19/2016						<0.003			<0.003
9/21/2016					<0.003				
11/2/2016		0.001 (J)					<0.003	<0.003	
11/3/2016			0.0021 (J)	<0.003	<0.003	<0.003			<0.003
1/17/2017			<0.003		<0.003	<0.003			
1/18/2017		0.0017 (J)		<0.003			<0.003	0.0013 (J)	
1/19/2017									<0.003
2/21/2017	0.0057								
3/24/2017			<0.003	<0.003					
3/27/2017	0.0013 (JD)				0.0008 (J)	<0.003			
3/28/2017		0.0006 (J)					<0.003	<0.003	<0.003
5/24/2017			<0.003						
6/5/2017									<0.003
6/6/2017				<0.003	<0.003		<0.003	0.0007 (J)	
6/7/2017		0.0003 (J)				<0.003			
6/8/2017	<0.003 (*)								
7/17/2017	0.005 (D)								
7/27/2017	0.0033								
8/9/2017	0.0012 (J)								
9/22/2017							<0.003	0.0012 (J)	
9/25/2017				<0.003	0.0035				
9/26/2017		<0.003	<0.003			<0.003			<0.003
9/29/2017	0.0013 (JD)								
3/14/2018		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
3/15/2018								<0.003	<0.003
3/16/2018	0.0078								
9/12/2018		<0.003	<0.003	<0.003	0.003		<0.003	<0.003	<0.003
9/14/2018	0.0056					<0.003			
3/13/2019			<0.003				<0.003	<0.003	
3/14/2019	0.014			<0.003	<0.003	<0.003			<0.003
3/15/2019		<0.003							
9/9/2019		0.00079 (J)	<0.003						
9/10/2019				<0.003 (D)	0.0029 (J)	<0.003			
9/11/2019							<0.003	0.00029 (J)	<0.003
3/6/2020				<0.003		<0.003			
3/9/2020	0.0013 (J)	0.0011 (J)	<0.003		0.0037		0.00062 (J)	0.00037 (J)	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.003	<0.003	<0.003	<0.003		
3/16/2016	<0.003	0.00426						
3/17/2016							0.003	<0.003
5/16/2016	0.00109 (J)	0.00267 (J)						
5/17/2016			<0.003			<0.003		
5/18/2016				<0.003	0.000987 (J)		<0.003	<0.003
7/25/2016	<0.003 (*)	0.0017 (J)						
7/26/2016			<0.003					
7/27/2016				0.0006 (J)	0.0008 (J)	0.0006 (J)	0.0023 (J)	
7/28/2016								<0.003
9/19/2016	<0.003	<0.003						
9/20/2016			0.001 (J)	<0.003	0.0012 (J)	0.0018 (J)		
9/21/2016							0.0013 (J)	<0.003
11/3/2016		0.0017 (J)						
11/4/2016	<0.003		<0.003		0.001 (J)	<0.003	<0.003	
11/7/2016				<0.003				<0.003 (*)
1/20/2017		0.001 (J)	<0.003		0.0013 (J)			
1/23/2017	<0.003			<0.003		<0.003		
1/24/2017							<0.003	0.0024 (J)
3/28/2017			<0.003			<0.003		
3/29/2017	0.0018 (J)	0.001 (J)		<0.003	0.0004 (J)		<0.003	
3/30/2017								0.0011 (J)
6/7/2017	0.0009 (J)	0.0009 (J)	<0.003					
6/8/2017				<0.003	<0.003 (*)	<0.003 (*)	<0.003 (*)	
6/9/2017								<0.003 (*)
9/27/2017	0.0111 (o)	0.0012 (J)		<0.003	<0.003			
9/29/2017			<0.003			<0.003	<0.003	0.0009 (J)
12/29/2017	0.0012 (Y)							
3/15/2018	0.00086 (J)	<0.003	<0.003	<0.003		<0.003	<0.003	0.0012 (J)
3/16/2018					<0.003			
9/13/2018	0.0029 (J)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
9/14/2018								0.00083 (J)
3/14/2019	0.0015 (J)	<0.003						
3/15/2019				<0.003		<0.003		
3/18/2019			<0.003				<0.003	
3/19/2019					<0.003			0.0011 (J)
9/11/2019	0.014	<0.003	<0.003		0.00099 (J)	<0.003 (D)	0.0032	0.00065 (J)
9/12/2019				<0.003				
3/9/2020				0.00032 (J)	0.00056 (J)	<0.003		0.0018 (J)
3/10/2020	0.00087 (J)	<0.003	<0.003					
3/11/2020							0.0012 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.005	<0.005	<0.005	
3/14/2016		<0.005							
3/15/2016			<0.005	<0.005	<0.005				
3/16/2016									0.0657 (o)
5/11/2016		<0.005	<0.005						
5/12/2016				<0.005					
5/13/2016					<0.005		<0.005	<0.005	
5/16/2016	<0.005 (D)					<0.005			<0.005
7/19/2016		<0.005					<0.005	<0.005	
7/20/2016				<0.005					
7/21/2016			<0.005		0.0012 (J)				
7/22/2016						<0.005			
7/25/2016									<0.005
7/27/2016	0.0011 (JD)								
9/15/2016		<0.005	<0.005	<0.005					
9/16/2016							<0.005	<0.005	
9/19/2016						<0.005			<0.005
9/21/2016					<0.005				
11/2/2016		<0.005					<0.005	<0.005	
11/3/2016			<0.005	<0.005	<0.005	<0.005			<0.005
1/17/2017			<0.005		<0.005	<0.005			
1/18/2017		<0.005		<0.005			<0.005	<0.005	
1/19/2017									<0.005
2/21/2017	<0.005								
3/24/2017			<0.005	<0.005					
3/27/2017	0.0007 (JD)				0.0008 (J)	<0.005			
3/28/2017		0.0007 (J)					<0.005	0.0005 (J)	0.0009 (J)
5/24/2017			<0.005						
6/5/2017									0.0033 (J)
6/6/2017				<0.005 (*)	<0.005 (*)		<0.005 (*)	<0.005 (*)	
6/7/2017		<0.005				<0.005 (*)			
6/8/2017	0.0007 (JD)								
7/17/2017	0.0005 (JD)								
7/27/2017	<0.005								
8/9/2017	0.0008 (J)								
9/22/2017							<0.005	<0.005	
9/25/2017				<0.005	0.001 (J)				
9/26/2017		<0.005	0.0005 (J)			<0.005			0.0008 (J)
9/29/2017	<0.005 (D)								
3/14/2018		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
3/15/2018								<0.005	<0.005
3/16/2018	<0.005								
9/12/2018		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
9/14/2018	<0.005					<0.005			
3/13/2019			<0.005				<0.005	<0.005	
3/14/2019	<0.005			<0.005	<0.005	<0.005			<0.005
3/15/2019		<0.005							
9/9/2019		0.00043 (J)	0.00068 (J)						
9/10/2019				<0.005 (D)	<0.005	<0.005			
9/11/2019							<0.005	<0.005	<0.005
3/6/2020				<0.005		<0.005			
3/9/2020	0.00083 (J)	<0.005	<0.005		<0.005		<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

3/10/2020	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44 0.0013 (J)
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Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.005	<0.005	0.0551 (o)	<0.005		
3/16/2016	<0.005	<0.005						
3/17/2016							<0.005	<0.005
5/16/2016	<0.005	<0.005						
5/17/2016			<0.005			<0.005		
5/18/2016				<0.005	0.00127 (J)		<0.005	<0.005
7/25/2016	<0.005	<0.005						
7/26/2016			<0.005					
7/27/2016				<0.005	0.0012 (J)	<0.005	<0.005	
7/28/2016								<0.005
9/19/2016	<0.005	<0.005						
9/20/2016			<0.005	<0.005	<0.005	<0.005		
9/21/2016							<0.005	<0.005
11/3/2016		<0.005						
11/4/2016	<0.005		<0.005		<0.005	<0.005	<0.005	
11/7/2016				<0.005				<0.005
1/20/2017		<0.005	<0.005		<0.005			
1/23/2017	<0.005			<0.005		<0.005		
1/24/2017							<0.005	<0.005
3/28/2017			0.0004 (J)			<0.005		
3/29/2017	<0.005	<0.005		<0.005	<0.005		<0.005	
3/30/2017								<0.005
6/7/2017	<0.005	<0.005 (*)	<0.005 (*)					
6/8/2017				0.0006 (J)	0.001 (J)	<0.005	<0.005	
6/9/2017								<0.005
9/27/2017	<0.005	0.0006 (J)		<0.005	0.0009 (J)			
9/29/2017			<0.005			<0.005	<0.005	<0.005
3/15/2018	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/16/2018					<0.005			
9/13/2018	<0.005	<0.005	<0.005	<0.005	0.00091 (J)	<0.005	<0.005	
9/14/2018								<0.005
3/14/2019	<0.005	<0.005						
3/15/2019				<0.005		<0.005		
3/18/2019			<0.005				<0.005	
3/19/2019					<0.005			<0.005
9/11/2019	<0.005	<0.005	<0.005		0.00067 (J)	<0.005 (D)	<0.005	<0.005
9/12/2019				<0.005				
3/9/2020				<0.005	0.00051 (J)	<0.005		<0.005
3/10/2020	<0.005	<0.005	<0.005					
3/11/2020							0.00041 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						0.00639 (J)	0.0116	0.00819 (J)	
3/14/2016		<0.01							
3/15/2016			<3 (o)	0.0291	0.0462				
3/16/2016									<3 (o)
5/11/2016		0.00793 (J)	0.00992 (J)						
5/12/2016				0.0322					
5/13/2016					0.0265		0.0361	0.00756 (J)	
5/16/2016	0.0113 (D)					0.00622 (J)			0.0418
7/19/2016		0.0045 (J)					0.036	0.0079 (J)	
7/20/2016				0.0313					
7/21/2016			0.009 (J)		0.0243				
7/22/2016						0.0062 (J)			
7/25/2016									0.0179
7/27/2016	0.0114 (D)								
9/15/2016		0.0057 (J)	0.0109	0.0217					
9/16/2016							0.0259	0.0078 (J)	
9/19/2016						0.0064 (J)			0.0152
9/21/2016					0.0145				
11/2/2016		0.0043 (J)					0.037	0.0082 (J)	
11/3/2016			0.0115	0.0272	0.0082 (J)	0.0058 (J)			0.0127
1/17/2017			0.0101		0.007 (J)	0.0061 (J)			
1/18/2017		<0.01 (*)		0.0286 (J)			0.0248	0.0085 (J)	
1/19/2017									0.0172
2/21/2017	0.0178								
3/24/2017			0.0086 (J)	0.0307					
3/27/2017	0.0162 (D)				0.016	0.0063 (J)			
3/28/2017		0.0188					0.0222	0.0084 (J)	0.0437
5/24/2017			0.0087 (J)						
6/5/2017									0.0747
6/6/2017				0.0242	0.0301		0.02	0.0078 (J)	
6/7/2017		0.0273				0.0064 (J)			
6/8/2017	0.0156 (D)								
7/17/2017	0.016 (D)								
7/27/2017	0.0184								
8/9/2017	0.0162								
9/22/2017							0.0179	0.0076 (J)	
9/25/2017				0.0252	0.0169				
9/26/2017		0.0236	0.0075 (J)			0.006 (J)			0.0338
9/29/2017	0.0159 (D)								
3/14/2018		0.027	0.0064 (J)	0.021	0.036	0.0065 (J)	0.016		
3/15/2018								0.0092 (J)	0.059
3/16/2018	0.016								
9/12/2018		0.022	0.0075 (J)	0.025	0.021		0.017	0.008 (J)	0.032
9/14/2018	0.015					0.0065 (J)			
3/13/2019			0.0076 (J)				0.014	0.0077 (J)	
3/14/2019	0.018			0.028	0.04	0.0066 (J)			0.077
3/15/2019		0.019							
9/9/2019		0.015	0.0078 (J)						
9/10/2019				0.0195 (D)	0.031	0.0068 (J)			
9/11/2019							0.015	0.0079 (J)	0.036
3/6/2020				0.022		0.0066 (J)			
3/9/2020	0.017	0.0072 (J)	0.0088 (J)		0.031		0.012	0.0069 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			0.0209	0.0144	0.0344 (o)	0.0361		
3/16/2016	0.6294 (o)	0.0244						
3/17/2016							0.0112	0.0121
5/16/2016	0.006 (J)	0.0222						
5/17/2016			0.0202			0.0277		
5/18/2016				0.0136	0.0184		0.0107	0.0117
7/25/2016	0.0056 (J)	0.02						
7/26/2016			0.0165					
7/27/2016				0.013	0.0146	0.0276	0.0104	
7/28/2016								0.0081 (J)
9/19/2016	0.0059 (J)	0.019						
9/20/2016			0.0132	0.0146	0.0122	0.0266		
9/21/2016							0.0106	0.0106
11/3/2016		0.0177						
11/4/2016	0.0054 (J)		0.012		0.0119	0.0239	0.0098 (J)	
11/7/2016				0.0124				0.0047 (J)
1/20/2017		0.0173	0.0133		0.0114			
1/23/2017	0.006 (J)			0.0158		<0.01		
1/24/2017							0.0101	0.0071 (J)
3/28/2017			0.0161			0.024		
3/29/2017	0.0058 (J)	0.0184		0.017	0.0116		0.0103	
3/30/2017								0.0043 (J)
6/7/2017	0.0062 (J)	0.019	0.0141					
6/8/2017				0.0149	<0.01 (*)	0.0317	<0.01 (*)	
6/9/2017								<0.01 (*)
9/27/2017	0.0056 (J)	0.0197		0.012	0.0098 (J)			
9/29/2017			0.0151			0.0265	0.0097 (J)	0.004 (J)
3/15/2018	0.0057 (J)	0.021	0.015	0.011		0.029	0.0093 (J)	0.0032 (J)
3/16/2018					0.01			
9/13/2018	0.0057 (J)	0.022	0.014	0.011	0.0092 (J)	0.026	0.01	
9/14/2018								0.004 (J)
3/14/2019	0.0066 (J)	0.024						
3/15/2019				0.01		0.026		
3/18/2019			0.014				0.015	
3/19/2019					0.0088 (J)			0.0033 (J)
9/11/2019	0.0061 (J)	0.021	0.013		0.0097 (J)	0.0295 (D)	0.017	0.0038 (J)
9/12/2019				0.0085 (J)				
3/9/2020				0.0089 (J)	0.0082 (J)	0.029		0.0045 (J)
3/10/2020	0.0061 (J)	0.024	0.013					
3/11/2020							0.026	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.005 (o)	<0.003	<0.003	
3/14/2016		<0.003							
3/15/2016			<0.003	<0.003	<0.003				
3/16/2016									<0.003
5/11/2016		<0.003	<0.003						
5/12/2016				<0.003					
5/13/2016					<0.003		<0.003	<0.003	
5/16/2016	<0.003 (D)					<0.003 (o)			<0.003
7/19/2016		<0.003					<0.003	<0.003	
7/20/2016				<0.003					
7/21/2016			<0.003		<0.003				
7/22/2016						0.0002 (J)			
7/25/2016									<0.003
7/27/2016	0.0004 (JD)								
9/15/2016		<0.003	<0.003	<0.003					
9/16/2016							<0.003	<0.003	
9/19/2016						0.0001 (J)			<0.003
9/21/2016					<0.003				
11/2/2016		<0.003					<0.003	<0.003	
11/3/2016			<0.003	<0.003	<0.003	0.0002 (J)			<0.003
1/17/2017			<0.003		<0.003	0.0001 (J)			
1/18/2017		<0.003		<0.003			<0.003	<0.003	
1/19/2017									<0.003
2/21/2017	<0.003								
3/24/2017			<0.003	<0.003					
3/27/2017	<0.003 (D)				<0.003	0.0001 (J)			
3/28/2017		<0.003					<0.003	<0.003	8E-05 (J)
5/24/2017			<0.003						9E-05 (J)
6/5/2017									
6/6/2017				<0.003	<0.003		<0.003	<0.003	
6/7/2017		<0.003				0.0001 (J)			
6/8/2017	<0.003 (D)								
7/17/2017	<0.003 (D)								
7/27/2017	<0.003								
8/9/2017	<0.003								
9/22/2017							<0.003	<0.003	
9/25/2017				<0.003	<0.003				
9/26/2017		<0.003	<0.003			0.0001 (J)			<0.003
9/29/2017	<0.003 (D)								
3/14/2018		<0.003	<0.003	<0.003	<0.003	0.00014 (J)	<0.003		
3/15/2018								5.1E-05 (J)	7.7E-05 (J)
3/16/2018	<0.003								
9/12/2018		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
9/14/2018	<0.003					0.00012 (J)			
3/13/2019			<0.003				<0.003	<0.003	
3/14/2019	<0.003			<0.003	5.2E-05 (J)	0.00017 (J)			7.8E-05 (J)
3/15/2019		<0.003							
9/9/2019		<0.003	<0.003						
9/10/2019				<0.003 (D)	<0.003	0.00015 (J)			
9/11/2019							<0.003	<0.003	<0.003
3/6/2020				<0.003		0.00017 (J)			
3/9/2020	<0.003	<0.003	<0.003		<0.003		<0.003	<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.003	<0.003	<0.003	<0.003		
3/16/2016	<0.003	<0.003						
3/17/2016							<0.003	<0.003
5/16/2016	<0.003	<0.003						
5/17/2016			<0.003			<0.003		
5/18/2016				<0.003	<0.003		<0.003	<0.003
7/25/2016	<0.003	<0.003						
7/26/2016			<0.003					
7/27/2016				<0.003	<0.003	0.0002 (J)	<0.003	
7/28/2016								<0.003
9/19/2016	<0.003	<0.003						
9/20/2016			<0.003	<0.003	<0.003	0.0002 (J)		
9/21/2016							<0.003	<0.003
11/3/2016		<0.003						
11/4/2016	<0.003		<0.003		<0.003	0.0002 (J)	<0.003	
11/7/2016				<0.003				<0.003
1/20/2017		<0.003	<0.003		<0.003			
1/23/2017	<0.003			<0.003		<0.003		
1/24/2017							<0.003	<0.003
3/28/2017			<0.003			0.0002 (J)		
3/29/2017	<0.003	<0.003		<0.003	<0.003		<0.003	
3/30/2017								<0.003
6/7/2017	<0.003	<0.003	<0.003					
6/8/2017				<0.003	<0.003	0.0002 (J)	<0.003	
6/9/2017								<0.003
9/27/2017	<0.003	<0.003		<0.003	<0.003			
9/29/2017			<0.003			0.0002 (J)	<0.003	<0.003
3/15/2018	<0.003	<0.003	<0.003	<0.003		0.00025 (J)	<0.003	<0.003
3/16/2018					<0.003			
9/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003	0.00026 (J)	<0.003	
9/14/2018								<0.003
3/14/2019	<0.003	<0.003						
3/15/2019				<0.003		0.00022 (J)		
3/18/2019			<0.003				<0.003	
3/19/2019					<0.003			<0.003
9/11/2019	<0.003	<0.003	<0.003		<0.003	0.0003 (JD)	<0.003	<0.003
9/12/2019				<0.003				
3/9/2020				<0.003	<0.003	0.00028 (J)		<0.003
3/10/2020	<0.003	<0.003	<0.003					
3/11/2020							<0.003	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.04	<0.04	<0.04	
3/14/2016		<0.04							
3/15/2016			<0.04	<0.04	<0.04				
3/16/2016									<0.04
5/11/2016		<0.04	<0.04						
5/12/2016				<0.04					
5/13/2016					<0.04		<0.04	<0.04	
5/16/2016	<0.04 (D)					<0.04			<0.04
7/19/2016		<0.04 (*)					<0.04 (*)	<0.04 (*)	
7/20/2016				<0.04					
7/21/2016			<0.04		<0.04 (*)				
7/22/2016						0.0076 (J)			
7/25/2016									<0.04
7/27/2016	<0.04 (*)								
9/15/2016		0.0067 (J)	<0.04	<0.04					
9/16/2016							<0.04	0.0246 (J)	
9/19/2016						<0.04			<0.04
9/21/2016					<0.04 (*)				
11/2/2016		<0.04					<0.04	0.0279 (J)	
11/3/2016			<0.04 (*)	<0.04	<0.04	<0.04			<0.04
1/17/2017			<0.04		<0.04	<0.04			
1/18/2017		<0.04		<0.04			<0.04	0.0336 (J)	
1/19/2017									<0.04
2/21/2017	0.0218 (JD)								
3/24/2017			<0.04	0.0154 (J)					
3/27/2017	0.0262 (JD)				0.0173 (J)	0.0101 (J)			
3/28/2017		<0.04					<0.04	0.0313 (J)	0.0113 (J)
5/24/2017			<0.04						
6/5/2017									<0.04 (*)
6/6/2017				<0.04	<0.04 (*)		<0.04 (*)	<0.04 (*)	
6/7/2017		<0.04 (*)				<0.04 (*)			
6/8/2017	0.0067 (JD)								
7/17/2017	0.0165 (JD)								
7/27/2017	0.0138 (JD)								
8/9/2017	0.0069 (JD)								
9/22/2017							<0.04	0.0294 (J)	
9/25/2017				<0.04	0.0141 (J)				
9/26/2017		<0.04	0.0075 (J)			<0.04			0.0084 (J)
9/29/2017	0.0066 (JD)								
3/14/2018		<0.04	0.0093 (J)	0.011 (J)	0.014 (J)	<0.04	<0.04		
3/15/2018								0.018 (J)	0.014 (J)
3/16/2018	0.0067 (J)								
9/12/2018		<0.04	<0.04	<0.04	0.013 (J)		<0.04	0.018 (J)	0.0051 (J)
9/14/2018	0.0059 (J)					<0.04			
3/13/2019			<0.04				<0.04	0.012 (X)	
3/14/2019	0.0059 (X)			0.007 (X)	0.015 (X)	<0.04			0.018 (X)
3/15/2019		0.005 (X)							
9/9/2019		<0.04	<0.04						
9/10/2019	0.0081 (X)			<0.04	0.015 (X)	<0.04			
9/11/2019							0.0059 (X)	0.021 (X)	0.0088 (X)
3/6/2020				0.013 (J)		0.0068 (J)			
3/9/2020	0.0065 (J)	<0.04	0.0074 (J)		0.021 (J)		<0.04	0.017 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

3/10/2020	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44 0.019 (J)
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Time Series

Constituent: Boron (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.04	<0.04	<0.04	<0.04		
3/16/2016	<0.04	<0.04						
3/17/2016							<0.04	<0.04
5/16/2016	<0.04	<0.04						
5/17/2016			<0.04			<0.04		
5/18/2016				<0.04	<0.04		<0.04	<0.04
7/25/2016	<0.04	0.0054 (J)						
7/26/2016			0.0047 (J)					
7/27/2016				<0.04 (*)	<0.04	<0.04 (*)	<0.04 (*)	
7/28/2016								<0.04 (*)
9/19/2016	<0.04	<0.04						
9/20/2016			0.0254 (J)	0.0133 (J)	0.0109 (J)	0.0078 (J)		
9/21/2016							<0.04 (*)	<0.04 (*)
11/3/2016		<0.04						
11/4/2016	<0.04		<0.04		<0.04	<0.04	<0.04	
11/7/2016				0.0079 (J)				0.0138 (J)
1/20/2017		<0.04	<0.04		<0.04			
1/23/2017	0.0086 (J)			<0.04		<0.04		
1/24/2017							<0.04	<0.04
3/28/2017			<0.04			<0.04		
3/29/2017	<0.04	<0.04		<0.04	<0.04		<0.04	
3/30/2017								0.0077 (J)
6/7/2017	<0.04 (*)	<0.04 (*)	<0.04 (*)					
6/8/2017				<0.04	<0.04	<0.04	<0.04	
6/9/2017								<0.04
9/27/2017	<0.04	<0.04		<0.04	<0.04			
9/29/2017			<0.04			<0.04	<0.04	<0.04
3/15/2018	0.0077 (J)	0.0063 (J)	0.0042 (J)	<0.04		<0.04	<0.04	0.0052 (J)
3/16/2018					<0.04			
9/13/2018	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
9/14/2018								<0.04
3/14/2019	<0.04	0.006 (X)						
3/15/2019				<0.04		<0.04		
3/18/2019			0.022 (X)				0.0099 (X)	
3/19/2019					<0.04			0.0043 (X)
9/11/2019	<0.04	<0.04	<0.04		0.0054 (X)	<0.04	<0.04	<0.04
9/12/2019				<0.04				
3/9/2020				<0.04	0.0051 (J)	<0.04		0.0055 (J)
3/10/2020	<0.04	0.009 (J)	<0.04					
3/11/2020							<0.04	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						0.000121 (J)	<0.0025	<0.0025	
3/14/2016		<0.0025							
3/15/2016			<0.0025	<0.0025	<0.0025				
3/16/2016									<0.0025
5/11/2016		0.000177 (J)	<0.0025						
5/12/2016				<0.0025					
5/13/2016					<0.0025		<0.0025	<0.0025	
5/16/2016	<0.0025 (D)					0.000145 (J)			<0.0025
7/19/2016		0.0001 (J)					<0.0025	<0.0025	
7/20/2016				<0.0025					
7/21/2016			<0.0025		<0.0025				
7/22/2016						<0.0025			
7/25/2016									<0.0025
7/27/2016	0.0001 (JD)								
9/15/2016		8E-05 (J)	<0.0025	<0.0025					
9/16/2016							<0.0025	<0.0025	
9/19/2016						0.0001 (J)			<0.0025
9/21/2016					<0.0025				
11/2/2016		<0.0025					<0.0025	<0.0025	
11/3/2016			<0.0025	<0.0025	<0.0025	8E-05 (J)			<0.0025
1/17/2017			<0.0025		<0.0025	0.0001 (J)			
1/18/2017		<0.0025		<0.0025			<0.0025	<0.0025	
1/19/2017									<0.0025
2/21/2017	<0.0025								
3/24/2017			<0.0025	<0.0025					
3/27/2017	<0.0025 (D)				<0.0025	0.0002 (J)			
3/28/2017		<0.0025					<0.0025	<0.0025	<0.0025
5/24/2017			<0.0025						
6/5/2017									8E-05 (J)
6/6/2017				<0.0025	<0.0025		8E-05 (J)	<0.0025	
6/7/2017		<0.0025				0.0001 (J)			
6/8/2017	<0.0025 (D)								
7/17/2017	<0.0025 (D)								
7/27/2017	<0.0025								
8/9/2017	<0.0025								
9/22/2017							<0.0025	<0.0025	
9/25/2017				<0.0025	<0.0025				
9/26/2017		<0.0025	<0.0025			<0.0025			<0.0025
9/29/2017	<0.0025 (D)								
3/14/2018		<0.0025	<0.0025	<0.0025	<0.0025	0.00011 (J)	<0.0025		
3/15/2018								<0.0025	<0.0025
3/16/2018	<0.0025								
9/12/2018		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
9/14/2018	<0.0025					0.00013 (J)			
3/13/2019			<0.0025				<0.0025	<0.0025	
3/14/2019	<0.0025			<0.0025	<0.0025	0.00013 (J)			<0.0025
3/15/2019		<0.0025							
9/9/2019		<0.0025	<0.0025						
9/10/2019				<0.0025 (D)	<0.0025	0.00014 (J)			
9/11/2019							<0.0025	<0.0025	<0.0025
3/6/2020				<0.0025		0.00014 (J)			
3/9/2020	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025	<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.0025	<0.0025	<0.0025	0.0195 (Jo)		
3/16/2016	<0.0025	0.0167 (o)						
3/17/2016							<0.0025	<0.0025
5/16/2016	<0.0025	<0.0025						
5/17/2016			<0.0025			0.000251 (J)		
5/18/2016				<0.0025	<0.0025		<0.0025	<0.0025
7/25/2016	<0.0025	<0.0025						
7/26/2016			<0.0025					
7/27/2016				<0.0025	<0.0025	0.0002 (J)	<0.0025	
7/28/2016								<0.0025
9/19/2016	<0.0025	<0.0025						
9/20/2016			<0.0025	8E-05 (J)	<0.0025	0.0002 (J)		
9/21/2016							<0.0025	9E-05 (J)
11/3/2016		<0.0025						
11/4/2016	<0.0025		<0.0025		<0.0025	0.0001 (J)	<0.0025	
11/7/2016				<0.0025				0.0001 (J)
1/20/2017		<0.0025	<0.0025		<0.0025			
1/23/2017	<0.0025			<0.0025		<0.0025		
1/24/2017							<0.0025	0.0002 (J)
3/28/2017			<0.0025			0.0001 (J)		
3/29/2017	<0.0025	<0.0025		<0.0025	<0.0025		<0.0025	
3/30/2017								0.0002 (J)
6/7/2017	<0.0025	<0.0025	<0.0025					
6/8/2017				<0.0025	<0.0025	0.0002 (J)	<0.0025	
6/9/2017								0.0002 (J)
9/27/2017	<0.0025	<0.0025		<0.0025	<0.0025			
9/29/2017			<0.0025			0.0002 (J)	<0.0025	0.0002 (J)
3/15/2018	<0.0025	<0.0025	<0.0025	9.3E-05 (J)		0.00018 (J)	<0.0025	0.0001 (J)
3/16/2018					<0.0025			
9/13/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00012 (J)	<0.0025	
9/14/2018								<0.0025
3/14/2019	<0.0025	<0.0025						
3/15/2019				0.00015 (J)		0.00018 (J)		
3/18/2019			<0.0025				<0.0025	
3/19/2019					<0.0025			<0.0025
9/11/2019	<0.0025	<0.0025	<0.0025		<0.0025	0.00021 (JD)	<0.0025	<0.0025
9/12/2019				<0.0025				
3/9/2020				0.00015 (J)	<0.0025	0.00016 (J)		<0.0025
3/10/2020	<0.0025	<0.0025	<0.0025					
3/11/2020							<0.0025	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						31	13	30	
3/14/2016		20							
3/15/2016			24	24	38				
3/16/2016									5.5
5/11/2016		9.76	22.1						
5/12/2016				15.5					
5/13/2016					36		18.7	27.8	
5/16/2016	27.8 (D)					32			4.3
7/19/2016		3.04					12	25.3	
7/20/2016				16.5					
7/21/2016			19.3		33.5				
7/22/2016						28.5			
7/25/2016									1.41
7/27/2016	21.2 (D)								
9/15/2016		4.78	18.2	6.1					
9/16/2016							8.48	27.5	
9/19/2016						28.6			1.01
9/21/2016					31.9				
11/2/2016		2.46					11.4	26.2	
11/3/2016			18.2	13.7	28.9	26.6			0.884
1/17/2017			22		31.4	28.7			
1/18/2017		5.46		13.1			6.81	26.6	
1/19/2017									1.41
2/21/2017	31.7 (D)								
3/24/2017			21.1	17.3					
3/27/2017	31.9 (D)				31.7	30.4			
3/28/2017		13					5.61	29	4.23
5/24/2017			23.5						
6/5/2017									10.1
6/6/2017				29.1	42.9		4.99	29.3	
6/7/2017		17				31.3			
6/8/2017	35 (D)								
7/17/2017	35.9 (D)								
7/27/2017	34.9 (D)								
8/9/2017	33.7 (D)								
9/22/2017							4.24	32.2	
9/25/2017				17.6	29.3				
9/26/2017		24.9	24.1			29.5			4.14
9/29/2017	33.4 (D)								
12/28/2017		17.9 (Y)						29 (Y)	
3/14/2018		26.4	25.7	39.6	41.4	32.6	3.6		
3/15/2018								28	9
3/16/2018	32.6								
9/12/2018		25.1	18.4 (J)	14.2 (J)	29		3.7	28.7	4.1
9/14/2018	29.2					30.5			
3/13/2019			23.8 (X)				2.9	29.2	
3/14/2019	33			22.7 (X)	31.9	32			17.2 (X)
3/15/2019		20.3 (X)							
9/9/2019		11.3	15.4						
9/10/2019	33.8			6	29.6	34			
9/11/2019							3.2	29.5	7.1
3/6/2020				29.2		38			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						2.4984	1.2562	1.9467	
3/14/2016		1.795							
3/15/2016			1.1671	4.1666	6.1465				
3/16/2016									6.505
5/11/2016		2.04	0.8763						
5/12/2016				1.78					
5/13/2016					3.08		1.32	2.14	
5/16/2016	1.74 (D)					2.22			5.08
7/19/2016		2.1					1.3	3.1	
7/20/2016				1.8					
7/21/2016			1.4		3.7				
7/22/2016						2.6			
7/25/2016									1.2
7/27/2016	2.1 (D)								
9/15/2016		1.7		1.4					
9/16/2016							1.2	3.5	
9/19/2016			1.1			2.5			1.9
9/21/2016					2.4				
11/2/2016		1.8					1.4	4.7	
11/3/2016			1.2	1.6	3.4	3			2
1/17/2017			1		1.9	2.9			
1/18/2017		1.7		1.5			1.2	4.9	
1/19/2017									2.6
2/21/2017	4 (D)								
3/24/2017			1.2	1.4					
3/27/2017	2.6 (D)				2.4	3			
3/28/2017		1.3					1.4	4.1	5.7
5/24/2017			1.5						
6/5/2017									7.8
6/6/2017				2.8	4.5		1.4	3.6	
6/7/2017		1.2				3			
6/8/2017	2.1 (D)								
7/17/2017	1.9 (D)								
7/20/2017									7.4
7/27/2017	3 (D)								
8/9/2017	2.5 (D)								
9/22/2017							1.3	3.9	
9/25/2017				1.8	2.5				
9/26/2017		1.7	2.4			3.1			3.7
9/29/2017	2.7 (D)								
12/28/2017			3.9 (Y)						
3/14/2018		1.4	2.4	3	4 (J)	3.2	1.3		
3/15/2018								2.8	6.5
3/16/2018	2.6								
9/12/2018		1.6	1	1.4	2.1		1.3	3.1	3.6
9/14/2018	1.9					2.3			
3/13/2019			2.2				1.6	2.9	
3/14/2019	2.8			2.6	2.9	3.6			6.4
3/15/2019		1.7							
9/9/2019		1.2	0.83 (X)						
9/10/2019	2.3			1.1	1.7	2			
9/11/2019							1.3	3.1	3.7

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.01	<0.01	0.00212 (J)	
3/14/2016		<0.01							
3/15/2016			<0.01	<0.01	<0.01				
3/16/2016									<0.01
5/11/2016		<0.01	<0.01						
5/12/2016				<0.01					
5/13/2016					<0.01		<0.01	<0.01	
5/16/2016	<0.01 (D)					<0.01			<0.01
7/19/2016		<0.01					<0.01	0.0006 (J)	
7/20/2016				<0.01					
7/21/2016			<0.01		<0.01				
7/22/2016						<0.01			
7/25/2016									<0.01
7/27/2016	0.0017 (JD)								
9/15/2016		<0.01	<0.01	<0.01					
9/16/2016							<0.01	<0.01	
9/19/2016						<0.01			<0.01
9/21/2016					<0.01				
11/2/2016		<0.01					<0.01	<0.01	
11/3/2016			<0.01	<0.01	<0.01	<0.01			<0.01
1/17/2017			<0.01		<0.01	<0.01			
1/18/2017		<0.01		<0.01			<0.01	0.0014 (J)	
1/19/2017									<0.01
2/21/2017	0.001 (J)								
3/24/2017			<0.01 (*)	<0.01 (*)					
3/27/2017	<0.01 (D)				<0.01	<0.01			
3/28/2017		<0.01 (*)					<0.01 (*)	<0.01 (*)	<0.01
5/24/2017			0.0008 (J)						
6/5/2017									<0.01
6/6/2017				<0.01	0.0004 (J)		0.0004 (J)	0.0009 (J)	
6/7/2017		<0.01				<0.01			
6/8/2017	<0.01 (D)								
7/17/2017	<0.01 (D)								
7/27/2017	0.0005 (J)								
8/9/2017	0.0005 (J)								
9/22/2017							0.0008 (J)	0.0006 (J)	
9/25/2017				<0.01	<0.01				
9/26/2017		<0.01	0.0005 (J)			<0.01			<0.01
9/29/2017	0.0006 (JD)								
3/14/2018		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
3/15/2018								0.0017 (J)	<0.01
3/16/2018	<0.01								
9/12/2018		<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
9/14/2018	<0.01					<0.01			
3/13/2019			<0.01				<0.01	<0.01	
3/14/2019	0.004 (J)			<0.01	<0.01	<0.01			<0.01
3/15/2019		<0.01							
9/9/2019		<0.01	<0.01						
9/10/2019				<0.01 (D)	<0.01	<0.01			
9/11/2019							0.00051 (J)	0.00066 (J)	<0.01
3/6/2020				0.015		0.00045 (J)			
3/9/2020	0.0016 (J)	0.069	0.0009 (J)		0.0004 (J)		0.0033 (J)	0.0014 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

3/10/2020	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44 0.00074 (J)
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Time Series

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.01	0.0439 (o)	0.00136 (J)	0.000148 (J)		
3/16/2016	<0.01	<0.01						
3/17/2016							<0.01	0.017 (J)
5/16/2016	<0.01	<0.01						
5/17/2016			<0.01			<0.01		
5/18/2016				0.00248 (J)	0.00606 (Jo)		<0.01	<0.01
7/25/2016	<0.01	<0.01						
7/26/2016			0.0017 (J)					
7/27/2016				0.0021 (J)	0.0023 (J)	0.0017 (J)	0.0006 (J)	
7/28/2016								0.0014 (J)
9/19/2016	<0.01	<0.01						
9/20/2016			0.0015 (J)	0.002 (J)	0.0021 (J)	0.0024 (J)		
9/21/2016							0.0011 (J)	0.0009 (J)
11/3/2016		<0.01						
11/4/2016	<0.01		0.0016 (J)		0.0016 (J)	0.0013 (J)	<0.01	
11/7/2016				0.0023 (J)				<0.01
1/20/2017		<0.01	0.0018 (J)		0.0016 (J)			
1/23/2017	<0.01			0.0011 (J)		<0.01		
1/24/2017							<0.01	<0.01
3/28/2017			<0.01 (*)			<0.01 (*)		
3/29/2017	<0.01	<0.01		0.0012 (J)	0.001 (J)		0.0004 (J)	
3/30/2017								<0.01
6/7/2017	<0.01	0.0004 (J)	0.0018 (J)					
6/8/2017				0.0015 (J)	0.0024 (J)	0.0016 (J)	0.0005 (J)	
6/9/2017								<0.01
9/27/2017	<0.01	<0.01		0.0021 (J)	0.0021 (J)			
9/29/2017			0.0033 (J)			0.002 (J)	0.0005 (J)	<0.01
3/15/2018	<0.01	<0.01	0.0021 (J)	0.0023 (J)		<0.01	<0.01	<0.01
3/16/2018					0.003 (J)			
9/13/2018	<0.01	<0.01	0.0041 (J)	<0.01	0.0017 (J)	<0.01	<0.01	
9/14/2018								<0.01
3/14/2019	<0.01	<0.01						
3/15/2019				<0.01		0.0023 (J)		
3/18/2019			0.0022 (J)				<0.01	
3/19/2019					0.018			0.0017 (J)
9/11/2019	<0.01	<0.01	0.0038 (J)		0.0015 (J)	0.00165 (JD)	0.00063 (J)	0.002 (J)
9/12/2019				0.0014 (J)				
3/9/2020				0.0012 (J)	0.0023 (J)	0.0023 (J)		0.00096 (J)
3/10/2020	0.0007 (J)	0.00092 (J)	0.0035 (J)					
3/11/2020							0.0012 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.005	<0.005	<0.005	
3/14/2016		0.00503 (J)							
3/15/2016			<0.005	<0.005	<0.005				
3/16/2016									0.00101 (J)
5/11/2016		0.0114	<0.005						
5/12/2016				<0.005					
5/13/2016					<0.005		<0.005	<0.005	
5/16/2016	0.00313 (JD)					<0.005			<0.005
7/19/2016		0.0013 (J)					<0.005	<0.005	
7/20/2016				<0.005					
7/21/2016			<0.005		0.0006 (J)				
7/22/2016						0.0004 (J)			
7/25/2016									0.0015 (J)
7/27/2016	0.0057 (JD)								
9/15/2016		0.002 (J)	<0.005	<0.005					
9/16/2016							<0.005	<0.005	
9/19/2016						<0.005			0.0014 (J)
9/21/2016					<0.005				
11/2/2016		0.0005 (J)					<0.005	<0.005	
11/3/2016			<0.005	<0.005	<0.005	<0.005			0.0013 (J)
1/17/2017			<0.005		<0.005	<0.005			
1/18/2017		0.0015 (J)		<0.005			<0.005	<0.005	
1/19/2017									0.0013 (J)
2/21/2017	<0.005								
3/24/2017			<0.005	<0.005					
3/27/2017	<0.005 (D)				0.0005 (J)	<0.005			
3/28/2017		0.0025 (J)					<0.005	<0.005	0.0019 (J)
5/24/2017			<0.005						
6/5/2017									0.0022 (J)
6/6/2017				<0.005	<0.005		<0.005	<0.005	
6/7/2017		0.0023 (J)				<0.005			
6/8/2017	<0.005 (D)								
7/17/2017	<0.005 (D)								
7/27/2017	<0.005								
8/9/2017	<0.005								
9/22/2017							<0.005	<0.005	
9/25/2017				<0.005	0.0006 (J)				
9/26/2017		0.0011 (J)	<0.005			<0.005			0.0018 (J)
9/29/2017	<0.005 (D)								
3/14/2018		0.00058 (J)	<0.005	<0.005	<0.005	<0.005	<0.005		
3/15/2018								<0.005	0.0018 (J)
3/16/2018	<0.005								
9/12/2018		<0.005	<0.005	<0.005	0.0011 (J)		<0.005	<0.005	0.0016 (J)
9/14/2018	<0.005					<0.005			
3/13/2019			<0.005				<0.005	<0.005	
3/14/2019	<0.005			<0.005	<0.005	<0.005			0.0022 (J)
3/15/2019		<0.005							
9/9/2019		<0.005	<0.005						
9/10/2019				<0.005 (D)	<0.005	<0.005			
9/11/2019							<0.005	<0.005	0.0018 (J)
3/6/2020				<0.005		0.00039 (J)			
3/9/2020	<0.005	0.00075 (J)	<0.005		<0.005		0.00039 (J)	<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.005	<0.005	<0.005	0.00207 (J)		
3/16/2016	<0.005	<0.005						
3/17/2016							<0.005	<0.005
5/16/2016	<0.005	<0.005						
5/17/2016			<0.005			0.0025 (J)		
5/18/2016				<0.005	<0.005		<0.005	<0.005
7/25/2016	0.0017 (J)	<0.005						
7/26/2016			0.0006 (J)					
7/27/2016				<0.005	<0.005	0.0014 (J)	<0.005	
7/28/2016								0.0026 (J)
9/19/2016	0.0017 (J)	<0.005						
9/20/2016			<0.005	<0.005	<0.005	0.0015 (J)		
9/21/2016							<0.005	0.0044 (J)
11/3/2016		<0.005						
11/4/2016	0.0013 (J)		<0.005		<0.005	0.0014 (J)	<0.005	
11/7/2016				<0.005				0.0044 (J)
1/20/2017		<0.005	<0.005		<0.005			
1/23/2017	0.0013 (J)			<0.005		<0.005		
1/24/2017							<0.005	0.0049 (J)
3/28/2017			<0.005			0.0015 (J)		
3/29/2017	0.0013 (J)	<0.005		<0.005	<0.005		<0.005	
3/30/2017								0.0041 (J)
6/7/2017	0.0011 (J)	<0.005	<0.005					
6/8/2017				<0.005	<0.005	0.0016 (J)	<0.005	
6/9/2017								0.0054 (J)
9/27/2017	0.0013 (J)	<0.005		<0.005	<0.005			
9/29/2017			<0.005			0.0015 (J)	<0.005	0.0038 (J)
3/15/2018	0.0012 (J)	<0.005	<0.005	<0.005		0.0013 (J)	<0.005	0.0026 (J)
3/16/2018					<0.005			
9/13/2018	0.001 (J)	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	<0.005	
9/14/2018								0.0017 (J)
3/14/2019	0.0015 (J)	<0.005						
3/15/2019				<0.005		0.0012 (J)		
3/18/2019			<0.005				<0.005	
3/19/2019					<0.005			0.00069 (J)
9/11/2019	0.0014 (J)	<0.005	<0.005		<0.005	0.00135 (JD)	<0.005	0.00075 (J)
9/12/2019				<0.005				
3/9/2020				<0.005	<0.005	0.0016 (J)		0.0028 (J)
3/10/2020	0.0012 (J)	<0.005	<0.005					
3/11/2020							<0.005	

Time Series

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.025	<0.025	<0.025	<0.025		
3/16/2016	<0.025	<0.025						
3/17/2016							<0.025	<0.025
5/16/2016	<0.025	<0.025						
5/17/2016			<0.025			<0.025		
5/18/2016				<0.025	<0.025		<0.025	<0.025
7/25/2016	<0.025	<0.025						
7/26/2016			<0.025					
7/27/2016				<0.025	<0.025	<0.025	<0.025	
7/28/2016								0.0007 (J)
9/19/2016	0.0032 (J)	<0.025						
9/20/2016			0.0008 (J)	0.0011 (J)	0.001 (J)	0.0018 (J)		
9/21/2016							<0.025	0.0018 (J)
11/3/2016		<0.025						
11/4/2016	0.0006 (J)		<0.025		<0.025	<0.025	<0.025	
11/7/2016				<0.025				<0.025
1/20/2017		<0.025	<0.025		<0.025			
1/23/2017	0.0008 (J)			<0.025		<0.025		
1/24/2017							<0.025	<0.025
3/28/2017			<0.025			<0.025 (*)		
3/29/2017	0.0005 (J)	0.0022 (J)		0.0003 (J)	0.0003 (J)		<0.025	
3/30/2017								0.0003 (J)
9/27/2017	0.0014 (J)	<0.025		<0.025	0.0011 (J)			
9/29/2017			<0.025			0.0003 (J)	<0.025	<0.025
3/15/2018	<0.025	<0.025	<0.025	<0.025		<0.025	<0.025	<0.025
3/16/2018					<0.025			
9/13/2018	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
9/14/2018								<0.025
3/14/2019	<0.025	<0.025						
3/15/2019				<0.025		<0.025		
3/18/2019			<0.025				<0.025	
3/19/2019					<0.025			<0.025
9/11/2019	0.012 (J)	<0.025	<0.025		0.0008 (J)	0.000535 (JD)	<0.025	0.00021 (J)
9/12/2019				<0.025				
3/9/2020				<0.025	0.00032 (J)	0.00035 (J)		0.00035 (J)
3/10/2020	0.00031 (J)	<0.025	<0.025					
3/11/2020							<0.025	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						0.0296 (J)	0.0329 (J)	0.0141 (J)	
3/14/2016		0.0657 (J)							
3/15/2016			<0.3	0.0285 (J)	0.0394 (J)				
3/16/2016									0.00218 (J)
5/11/2016		0.0401 (J)	0.0255 (J)						
5/12/2016				0.022 (J)					
5/13/2016					0.0234 (J)		0.0459 (J)	0.0141 (J)	
5/16/2016	0.0202 (JD)					0.0287 (J)			0.0415 (J)
7/19/2016		<0.3					<0.3	<0.3	
7/20/2016				<0.3					
7/21/2016			<0.3		<0.3				
7/22/2016						0.04 (J)			
7/25/2016									0.14 (J)
7/27/2016	0.08 (JD)								
9/15/2016		<0.3		<0.3					
9/16/2016							<0.3	<0.3	
9/19/2016			<0.3			<0.3			<0.3
9/21/2016					<0.3				
11/2/2016		0.04 (J)					0.04 (J)	0.04 (J)	
11/3/2016			0.11 (J)	0.05 (J)	0.12 (J)	0.04 (J)			0.06 (J)
1/17/2017			0.02 (J)		0.01 (J)	0.02 (J)			
1/18/2017		0.03 (J)		0.02 (J)			<0.3	0.02 (J)	
1/19/2017									0.009 (J)
2/21/2017	0.17 (JD)								
3/24/2017			<0.3	<0.3					
3/27/2017	0.09 (JD)				<0.3	<0.3			
3/28/2017		0.06 (J)					<0.3	<0.3	0.04 (J)
5/24/2017			<0.3						
6/5/2017									0.06 (J)
6/6/2017				<0.3	<0.3		<0.3	<0.3	
6/7/2017		0.06 (J)				<0.3			
6/8/2017	0.05 (JD)								
7/17/2017	0.05 (JD)								
7/20/2017									0.21 (J)
7/27/2017	0.08 (JD)								
8/9/2017	<0.3 (*)								
9/22/2017							<0.3	<0.3	
9/25/2017				<0.3	<0.3				
9/26/2017		0.04 (J)	<0.3			<0.3			0.14 (J)
9/29/2017	0.04 (JD)								
3/14/2018		0.14 (J)	0.055 (J)	<0.3	<0.3	0.06 (J)	<0.3		
3/15/2018								<0.3	0.11 (J)
3/16/2018	0.27 (J)								
9/12/2018		<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	0.062 (J)
9/14/2018	0.1 (J)					<0.3			
3/13/2019			0.045 (X)				<0.3	0.036 (X)	
3/14/2019	0.066 (X)			0.039 (X)	0.04 (X)	0.058 (X)			0.13 (X)
3/15/2019		<0.3							
9/9/2019		0.054 (X)	<0.3						
9/10/2019	0.055 (X)			<0.3	<0.3	<0.3			
9/11/2019							<0.3	<0.3	<0.3
3/6/2020				<0.3		<0.3			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			0.00697 (J)	0.00337 (J)	0.00202 (J)	0.00797 (J)		
3/16/2016	<0.3	0.00244 (J)						
3/17/2016							<0.3	0 (J)
5/16/2016	<0.3	0.0161 (J)						
5/17/2016			0.0281 (J)			0.0156 (J)		
5/18/2016				0.059 (J)	0.065 (J)		0.022 (J)	0.015 (J)
7/25/2016	0.02 (J)	0.14 (J)						
7/26/2016			<0.3					
7/27/2016				0.1 (J)	0.09 (J)	<0.3	0.07 (J)	
7/28/2016								0.08 (J)
9/19/2016	<0.3	<0.3						
9/20/2016			<0.3	0.04 (J)	<0.3	0.03 (J)		
9/21/2016							<0.3	<0.3
11/3/2016		0.08 (J)						
11/4/2016	0.04 (J)		0.05 (J)		0.04 (J)	0.06 (J)	0.03 (J)	
11/7/2016				0.1 (J)				<0.3
1/20/2017		0.01 (J)	0.01 (J)		0.009 (J)			
1/23/2017	0.006 (J)			0.13 (J)		0.02 (J)		
1/24/2017							<0.3	<0.3
3/28/2017			<0.3			<0.3		
3/29/2017	<0.3	<0.3		0.04 (J)	<0.3		<0.3	
3/30/2017								<0.3
6/7/2017	<0.3	<0.3	<0.3					
6/8/2017				0.05 (J)	<0.3 (*)	0.06 (J)	<0.3 (*)	
6/9/2017								<0.3
9/27/2017	<0.3	<0.3		0.04 (J)	<0.3			
9/29/2017			<0.3			<0.3	<0.3	<0.3
3/15/2018	<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3
3/16/2018					0.13 (J)			
9/13/2018	<0.3	<0.3	<0.3	0.047 (J)	<0.3	<0.3	<0.3	
9/14/2018								<0.3
3/14/2019	<0.3	0.039 (X)						
3/15/2019				<0.3		<0.3		
3/18/2019			<0.3				<0.3	
3/19/2019					<0.3			<0.3
9/11/2019	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3	<0.3
9/12/2019				<0.3				
3/9/2020				<0.3	<0.3	<0.3		<0.3
3/10/2020	<0.3	<0.3	<0.3					
3/11/2020							<0.3	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.005	<0.005	<0.005	
3/14/2016		<0.005							
3/15/2016			<0.005	<0.005	<0.005				
3/16/2016									<0.005
5/11/2016		<0.005	<0.005						
5/12/2016				<0.005					
5/13/2016					<0.005		<0.005	<0.005	
5/16/2016	<0.005 (D)					<0.005			<0.005
7/19/2016		<0.005					<0.005	<0.005	
7/20/2016				<0.005					
7/21/2016			<0.005		0.0001 (J)				
7/22/2016						0.0001 (J)			
7/25/2016									0.0003 (J)
7/27/2016	0.0011 (JD)								
9/15/2016		<0.005	<0.005	<0.005					
9/16/2016							<0.005	<0.005	
9/19/2016						0.0002 (J)			0.0002 (J)
9/21/2016					<0.005				
11/2/2016		<0.005					<0.005	<0.005	
11/3/2016			<0.005	<0.005	<0.005	<0.005			0.0002 (J)
1/17/2017			<0.005		<0.005	<0.005			
1/18/2017		<0.005		<0.005			<0.005	<0.005	
1/19/2017									0.0003 (J)
2/21/2017	<0.005								
3/24/2017			<0.005 (*)	<0.005					
3/27/2017	<0.005 (D)				<0.005	<0.005			
3/28/2017		<0.005 (*)					<0.005	<0.005	<0.005 (*)
5/24/2017			0.0001 (J)						
6/5/2017									0.0007 (J)
6/6/2017				<0.005	<0.005		7E-05 (J)	0.0001 (J)	
6/7/2017		8E-05 (J)				<0.005			
6/8/2017	<0.005 (D)								
7/17/2017	<0.005 (D)								
7/27/2017	0.0001 (J)								
8/9/2017	<0.005								
9/22/2017							8E-05 (J)	7E-05 (J)	
9/25/2017				<0.005	0.0001 (J)				
9/26/2017		0.0002 (J)	0.0001 (J)			<0.005			0.0004 (J)
9/29/2017	<0.005 (D)								
3/14/2018		<0.005	0.00046 (J)	<0.005	0.00031 (J)	<0.005	<0.005		
3/15/2018								0.0038 (J)	0.00064 (J)
3/16/2018	<0.005								
9/12/2018		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	0.00037 (J)
9/14/2018	<0.005					<0.005			
3/13/2019			<0.005				<0.005	<0.005	
3/14/2019	<0.005			<0.005	0.00031 (J)	<0.005			0.00077 (J)
3/15/2019		<0.005							
9/9/2019		<0.005	<0.005						
9/10/2019				<0.005 (D)	<0.005	<0.005			
9/11/2019							0.0001 (J)	9.2E-05 (J)	0.00047 (J)
3/6/2020				9.1E-05 (J)		0.00011 (J)			
3/9/2020	0.00027 (J)	5.5E-05 (J)	9.5E-05 (J)		4.9E-05 (J)		9.1E-05 (J)	9.6E-05 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.005	<0.005	<0.005	<0.005		
3/16/2016	<0.005	<0.005						
3/17/2016							<0.005	<0.005
5/16/2016	<0.005	<0.005						
5/17/2016			<0.005			<0.005		
5/18/2016				<0.005	<0.005		<0.005	<0.005
7/25/2016	0.0002 (J)	0.0001 (J)						
7/26/2016			<0.005					
7/27/2016				9E-05 (J)	9E-05 (J)	<0.005	<0.005	
7/28/2016								0.0002 (J)
9/19/2016	0.0004 (J)	<0.005						
9/20/2016			<0.005	0.0003 (J)	0.0001 (J)	0.0002 (J)		
9/21/2016							<0.005	<0.005 (*)
11/3/2016		<0.005						
11/4/2016	0.0002 (J)		<0.005		<0.005	<0.005	<0.005	
11/7/2016				<0.005				<0.005
1/20/2017		<0.005	<0.005		<0.005			
1/23/2017	0.0001 (J)			<0.005		<0.005		
1/24/2017							<0.005	0.0002 (J)
3/28/2017			<0.005			<0.005 (*)		
3/29/2017	0.0001 (J)	0.0001 (J)		<0.005	<0.005		<0.005	
3/30/2017								<0.005
6/7/2017	0.0001 (J)	8E-05 (J)	<0.005					
6/8/2017				0.0001 (J)	<0.005	<0.005	<0.005	
6/9/2017								<0.005
9/27/2017	0.0003 (J)	9E-05 (J)		<0.005	<0.005			
9/29/2017			<0.005			<0.005	<0.005	<0.005
3/15/2018	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/16/2018					<0.005			
9/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
9/14/2018								<0.005
3/14/2019	<0.005	<0.005						
3/15/2019				<0.005		<0.005		
3/18/2019			<0.005				<0.005	
3/19/2019					<0.005			<0.005
9/11/2019	0.00016 (J)	<0.005	<0.005		8.5E-05 (J)	0.002529 (D)	<0.005	8.2E-05 (J)
9/12/2019				<0.005				
3/9/2020				5.8E-05 (J)	8E-05 (J)	<0.005		0.00017 (J)
3/10/2020	0.00014 (J)	<0.005	<0.005					
3/11/2020							<0.005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.0005	<0.0005	<0.0005	
3/14/2016		<0.0005							
3/15/2016			<0.0005	<0.0005	<0.0005				
3/16/2016									<0.0005
5/11/2016		<0.0005	<0.0005						
5/12/2016				<0.0005					
5/13/2016					<0.0005		<0.0005	<0.0005	
5/16/2016	<0.0005 (D)					<0.0005			<0.0005
7/19/2016		<0.0005					<0.0005	<0.0005	
7/20/2016				<0.0005					
7/21/2016			<0.0005		<0.0005				
7/22/2016						<0.0005			
7/25/2016									<0.0005
7/27/2016	<0.0005 (D)								
9/15/2016		<0.0005	<0.0005	<0.0005					
9/16/2016							<0.0005	<0.0005	
9/19/2016						<0.0005			<0.0005
9/21/2016					<0.0005				
11/2/2016		<0.0005					<0.0005	<0.0005	
11/3/2016			<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
1/17/2017			<0.0005		<0.0005	<0.0005			
1/18/2017		<0.0005		<0.0005			<0.0005	<0.0005	
1/19/2017									<0.0005
2/21/2017	<0.0005								
3/24/2017			<0.0005	<0.0005					
3/27/2017	<0.0005 (D)				<0.0005	<0.0005			
3/28/2017		<0.0005					<0.0005	<0.0005	<0.0005
5/24/2017			<0.0005						
6/5/2017									<0.0005
6/6/2017				<0.0005	<0.0005		<0.0005	<0.0005	
6/7/2017		<0.0005				<0.0005			
6/8/2017	<0.0005 (D)								
7/17/2017	<0.0005 (D)								
7/27/2017	<0.0005								
8/9/2017	<0.0005								
9/22/2017							<0.0005	<0.0005	
9/25/2017				<0.0005	<0.0005				
9/26/2017		<0.0005	<0.0005			<0.0005			<0.0005
9/29/2017	<0.0005 (D)								
3/14/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/15/2018								<0.0005	<0.0005
3/16/2018	<0.0005								
9/12/2018		<0.0005	3.8E-05 (J)	<0.0005	<0.0005		<0.0005	3.9E-05 (J)	<0.0005
9/14/2018	4.1E-05 (J)					3.8E-05 (J)			
3/13/2019			<0.0005				<0.0005	<0.0005	
3/14/2019	<0.0005			<0.0005	<0.0005	<0.0005			<0.0005
3/15/2019		<0.0005							
9/9/2019		<0.0005	<0.0005						
9/10/2019				<0.0005 (D)	<0.0005	<0.0005			
9/11/2019							<0.0005	<0.0005	<0.0005
3/6/2020				<0.0005		<0.0005			
3/9/2020	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.0005	<0.0005	<0.0005	<0.0005		
3/16/2016	<0.0005	<0.0005						
3/17/2016							<0.0005	<0.0005
5/16/2016	<0.0005	<0.0005						
5/17/2016			<0.0005			<0.0005		
5/18/2016				<0.0005	<0.0005		<0.0005	<0.0005
7/25/2016	<0.0005	<0.0005						
7/26/2016			<0.0005					
7/27/2016				<0.0005	<0.0005	<0.0005	<0.0005	
7/28/2016								<0.0005
9/19/2016	<0.0005	<0.0005						
9/20/2016			<0.0005	<0.0005	<0.0005	<0.0005		
9/21/2016							<0.0005	<0.0005
11/3/2016		<0.0005						
11/4/2016	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
11/7/2016				<0.0005				<0.0005
1/20/2017		<0.0005	<0.0005		<0.0005			
1/23/2017	<0.0005			<0.0005		<0.0005		
1/24/2017							5E-05 (J)	5E-05 (J)
3/28/2017			<0.0005			<0.0005		
3/29/2017	<0.0005 (*)	<0.0005 (*)		<0.0005 (*)	<0.0005 (*)		<0.0005 (*)	
3/30/2017								<0.0005 (*)
6/7/2017	<0.0005	<0.0005	<0.0005					
6/8/2017				<0.0005	<0.0005	<0.0005	<0.0005	
6/9/2017								<0.0005
9/27/2017	<0.0005	<0.0005		<0.0005	<0.0005			
9/29/2017			<0.0005			<0.0005	4E-05 (J)	<0.0005
3/15/2018	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
3/16/2018					<0.0005			
9/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	6.2E-05 (J)	<0.0005	
9/14/2018								<0.0005
3/14/2019	<0.0005	<0.0005						
3/15/2019				<0.0005		<0.0005		
3/18/2019			<0.0005				<0.0005	
3/19/2019					5E-05 (J)			4.5E-05 (J)
9/11/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005 (D)	<0.0005	<0.0005
9/12/2019				<0.0005				
3/9/2020				<0.0005	<0.0005	<0.0005		<0.0005
3/10/2020	<0.0005	<0.0005	<0.0005					
3/11/2020							<0.0005	

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.01	<0.01	<0.01	0.00235 (J)		
3/16/2016	<0.01	<0.01						
3/17/2016							<0.01	0.00778 (J)
5/16/2016	0.00316 (J)	<0.01						
5/17/2016			<0.01			0.00489 (J)		
5/18/2016				<0.01	<0.01		<0.01	<0.01
7/25/2016	0.0013 (J)	<0.01						
7/26/2016			<0.01					
7/27/2016				<0.01	0.0007 (J)	0.0036 (J)	<0.01	
7/28/2016								0.0024 (J)
9/19/2016	0.0013 (J)	<0.01						
9/20/2016			0.0013 (J)	<0.01	0.0007 (J)	0.0035 (J)		
9/21/2016							<0.01	0.0044 (J)
11/3/2016		<0.01						
11/4/2016	0.0015 (J)		<0.01		0.0006 (J)	0.0035 (J)	<0.01	
11/7/2016				<0.01				0.0035 (J)
1/20/2017		<0.01	<0.01		<0.01			
1/23/2017	0.0015 (J)			<0.01		<0.01		
1/24/2017							<0.01	0.005 (J)
3/28/2017			<0.01			0.0033 (J)		
3/29/2017	0.0012 (J)	<0.01		0.0004 (J)	0.0003 (J)		<0.01	
3/30/2017								0.0046 (J)
9/27/2017	0.0014 (J)	<0.01		<0.01	<0.01			
9/29/2017			<0.01			0.0036 (J)	<0.01	0.004 (J)
3/15/2018	0.0011 (J)	<0.01	<0.01	<0.01		0.0033 (J)	<0.01	0.0028 (J)
3/16/2018					<0.01			
9/13/2018	0.001 (J)	<0.01	<0.01	<0.01	<0.01	0.0038 (J)	<0.01	
9/14/2018								0.0024 (J)
3/14/2019	0.001 (J)	<0.01						
3/15/2019				<0.01		0.0033 (J)		
3/18/2019			<0.01				<0.01	
3/19/2019					0.0042 (J)			0.0047 (J)
9/11/2019	0.0012 (J)	<0.01	<0.01		0.0014 (J)	0.00405 (JD)	<0.01	0.0012 (J)
9/12/2019				<0.01				
3/9/2020				<0.01	<0.01	0.0039 (J)		0.003 (J)
3/10/2020	0.0012 (J)	<0.01	<0.01					
3/11/2020							0.0004 (J)	

Time Series

Constituent: pH (pH units) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						7.37	6.43	7.89	
3/14/2016		6.91							
3/15/2016			7.58	6.74	7.15				
3/16/2016									4.49
5/11/2016		6.51	7.24						
5/12/2016				6.41					
5/13/2016					7.29		6.8	7.86	
5/16/2016	7.61 (D)					7.55			4.55
7/19/2016		6.12					6.42	7.83	
7/20/2016				6.59					
7/21/2016			7.53		7.43				
7/22/2016						7.51			
7/25/2016									4.63
7/27/2016	7.51 (D)								
9/15/2016		5.96	7						
9/16/2016							6.19	7.75	
9/19/2016			7.19			7.52			4.65
9/21/2016					7.05				
11/2/2016		5.78					6.36	7.77	
11/3/2016			7.13	6.45	7.4	7.56			4.69
1/17/2017			7.51		7.06	7.59			
1/18/2017		6.13		6.34			6.16	7.65	
1/19/2017									4.58
2/21/2017	7.76 (D)								
3/24/2017			7.55	6.42					
3/27/2017	7.7 (D)				7.13	7.63			
3/28/2017		6.59					5.8	7.79	4.45
5/24/2017			7.6						
6/5/2017									4.33
6/6/2017				6.82	7.18		5.97	7.89	
6/7/2017		6.72				7.55			
6/8/2017	7.69 (D)								
7/17/2017	7.57 (D)								
7/20/2017									4.38
7/26/2017	7.63								
7/27/2017	7.63								
8/8/2017	7.73								
8/9/2017	7.73								
9/22/2017							5.77	7.8	
9/25/2017				6.63	6.88				
9/26/2017		7.05	7.66			7.59			4.51
9/29/2017	7.7 (D)								
12/28/2017		6.79 (Y)	7.34 (Y)					7.78 (Y)	
3/14/2018		7.42	7.56	7.08	7.04	7.6	5.85		
3/15/2018								7.66	4.34
3/16/2018	7.49								
9/12/2018		6.86	7.12	6.54	7.02		5.65	7.75	4.49
9/14/2018	7.32					7.37			
3/13/2019			7.12				5.63	7.84	
3/14/2019	7.46			6.58	6.93	7.57			4.41
3/15/2019		6.78							
9/9/2019		6.49	7.07						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.01	0.00236 (J)	<0.01	
3/14/2016		<0.01							
3/15/2016			<0.01	<0.01	<0.01				
3/16/2016									0.002 (J)
5/11/2016		<0.01	<0.01						
5/12/2016				<0.01					
5/13/2016					<0.01		<0.01	<0.01	
5/16/2016	<0.01 (D)					<0.01			0.0021 (J)
7/19/2016		<0.01					<0.01	<0.01	
7/20/2016				<0.01					
7/21/2016			<0.01		<0.01				
7/22/2016						<0.01			
7/25/2016									<0.01
7/27/2016	<0.01 (D)								
9/15/2016		<0.01	<0.01	<0.01					
9/16/2016							<0.01	<0.01	
9/19/2016						<0.01			<0.01
9/21/2016					<0.01				
11/2/2016		<0.01					<0.01	<0.01	
11/3/2016			<0.01	<0.01	<0.01	<0.01			<0.01
1/17/2017			<0.01		<0.01	<0.01			
1/18/2017		<0.01		<0.01			<0.01	<0.01	
1/19/2017									<0.01
2/21/2017	<0.01								
3/24/2017			<0.01	<0.01					
3/27/2017	<0.01 (D)				<0.01	<0.01			
3/28/2017		<0.01					<0.01	<0.01	0.0033 (J)
5/24/2017			<0.01						
6/5/2017									0.0068 (J)
6/6/2017				<0.01	<0.01		<0.01	<0.01	
6/7/2017		<0.01				<0.01			
6/8/2017	<0.01 (D)								
7/17/2017	<0.01 (D)								
7/27/2017	<0.01								
8/9/2017	<0.01								
9/22/2017							<0.01	<0.01	
9/25/2017				<0.01	<0.01				
9/26/2017		<0.01	<0.01			<0.01			0.0037 (J)
9/29/2017	<0.01 (D)								
3/14/2018		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
3/15/2018								<0.01	0.0031 (J)
3/16/2018	<0.01								
9/12/2018		<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
9/14/2018	<0.01					<0.01			
3/13/2019			<0.01				<0.01	<0.01	
3/14/2019	<0.01			<0.01	<0.01	<0.01			0.0042 (J)
3/15/2019		<0.01							
9/9/2019		<0.01	<0.01						
9/10/2019				<0.01 (D)	<0.01	<0.01			
9/11/2019							<0.01	<0.01	0.0021 (J)
3/6/2020				<0.01		<0.01			
3/9/2020	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.01	<0.01	<0.01	<0.01		
3/16/2016	<0.01	<0.01						
3/17/2016							<0.01	<0.01
5/16/2016	<0.01	<0.01						
5/17/2016			<0.01			<0.01		
5/18/2016				<0.01	<0.01		<0.01	<0.01
7/25/2016	<0.01	<0.01						
7/26/2016			0.0009 (J)					
7/27/2016				<0.01	<0.01	0.0009 (J)	<0.01	
7/28/2016								<0.01
9/19/2016	<0.01	<0.01						
9/20/2016			<0.01	<0.01	<0.01	<0.01		
9/21/2016							<0.01	<0.01
11/3/2016		<0.01						
11/4/2016	<0.01		<0.01		<0.01	<0.01	<0.01	
11/7/2016				<0.01				<0.01
1/20/2017		<0.01	<0.01		<0.01			
1/23/2017	<0.01			<0.01		<0.01		
1/24/2017							<0.01	<0.01
3/28/2017			<0.01			<0.01		
3/29/2017	<0.01	<0.01		<0.01	<0.01		<0.01	
3/30/2017								<0.01
6/7/2017	<0.01	<0.01	<0.01					
6/8/2017				<0.01	<0.01	<0.01	<0.01	
6/9/2017								<0.01
9/29/2017			<0.01			<0.01	<0.01	<0.01
3/15/2018	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
3/16/2018					<0.01			
9/13/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
9/14/2018								<0.01
3/14/2019	<0.01	<0.01						
3/15/2019				<0.01		<0.01		
3/18/2019			<0.01				<0.01	
3/19/2019					<0.01			<0.01
9/11/2019	<0.01	<0.01	<0.01		<0.01	<0.01 (D)	<0.01	<0.01
9/12/2019				<0.01				
3/9/2020				<0.01	<0.01	<0.01		<0.01
3/10/2020	<0.01	<0.01	<0.01					
3/11/2020							<0.01	

Time Series

Constituent: Silver (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.01	<0.01	<0.01	<0.01		
3/16/2016	<0.01	<0.01						
3/17/2016							<0.01	<0.01
5/16/2016	<0.01	<0.01						
5/17/2016			<0.01			<0.01		
5/18/2016				<0.01	<0.01		<0.01	<0.01
7/25/2016	<0.01	<0.01						
7/26/2016			<0.01					
7/27/2016				<0.01	<0.01	<0.01	<0.01	
7/28/2016								<0.01
9/19/2016	<0.01	<0.01						
9/20/2016			<0.01	<0.01	<0.01	<0.01		
9/21/2016							<0.01	<0.01
11/3/2016		<0.01						
11/4/2016	<0.01		<0.01		<0.01	<0.01	<0.01	
11/7/2016				<0.01				<0.01
1/20/2017		<0.01	<0.01		<0.01			
1/23/2017	<0.01			<0.01		<0.01		
1/24/2017							<0.01	<0.01
3/28/2017			<0.01			<0.01		
3/29/2017	<0.01	<0.01		<0.01	<0.01		<0.01	
3/30/2017								<0.01
9/27/2017	<0.01	<0.01		<0.01	<0.01			
9/29/2017			<0.01			<0.01	<0.01	<0.01
3/15/2018	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
3/16/2018					<0.01			
9/13/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
9/14/2018								<0.01
3/14/2019	<0.01	<0.01						
3/15/2019				<0.01		<0.01		
3/18/2019			<0.01				<0.01	
3/19/2019					<0.01			<0.01
9/11/2019	<0.01	<0.01	<0.01		<0.01	<0.01 (D)	<0.01	<0.01
9/12/2019				<0.01				
3/9/2020				<0.01	<0.01	<0.01		<0.01
3/10/2020	<0.01	<0.01	<0.01					
3/11/2020							<0.01	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						1.4538	1.1313	3.8282	
3/14/2016		4.2598							
3/15/2016			1.2104	4.9347	6.4987				
3/16/2016									14.7828
5/11/2016		6.05	1.28						
5/12/2016				2.3					
5/13/2016					3.68		1.96	3.56	
5/16/2016	2.4 (D)					1.18			10.2
7/19/2016		9.5					1.3	5.6	
7/20/2016				2					
7/21/2016			0.91 (J)		4.5				
7/22/2016						1.8			
7/25/2016									8.4
7/27/2016	3.6 (D)								
9/15/2016		6.7		1.1					
9/16/2016							1.1	6.7	
9/19/2016			1.3			1.4			2.5
9/21/2016					2.8				
11/2/2016		5.4					1.2	8.1	
11/3/2016			1.5	1.6	6.7	1.6			3.3
1/17/2017			<1 (*)		<1 (*)	<1 (*)			
1/18/2017		5.5		1.5			0.84 (J)	8.9	
1/19/2017									3.2
2/21/2017	26 (D)								
3/24/2017			0.86 (J)	1.6					
3/27/2017	10 (D)				0.85 (J)	2			
3/28/2017		2.9					0.7 (J)	8.2	16 (J)
5/24/2017			1.2						
6/5/2017									38
6/6/2017				4.1	6.1		0.47 (J)	7	
6/7/2017		2.3				1.9			
6/8/2017	6.7 (D)								
7/17/2017	6.4 (D)								
7/20/2017									48
7/27/2017	18 (D)								
8/9/2017	18 (D)								
9/22/2017							0.59 (J)	8.3	
9/25/2017				1.9	3.5				
9/26/2017		3.2	4.2			2			18
9/29/2017	21 (D)								
12/28/2017			7.4 (Y)						
3/14/2018		3.8	3.8	11.5	10.9 (J)	2.1	0.39 (J)		
3/15/2018								5.1	32.4
3/16/2018	15.5								
9/12/2018		3.7	1.7	1.8	3.7		0.3 (J)	5.6	16
9/14/2018	11.6					1.6			
3/13/2019			2.1				0.43 (X)	4.4	
3/14/2019	9.3			6.2	8.9	2.2			79.7 (O)
3/15/2019		3							
9/9/2019		2.4	1.6						
9/10/2019	14			1.2	8.4	1.2			
9/11/2019							<1	5	19.8

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						<0.001	<0.001	<0.001	
3/14/2016		<0.001							
3/15/2016			<0.001	<0.001	<0.001				
3/16/2016									<0.001
5/11/2016		<0.001	<0.001						
5/12/2016				<0.001					
5/13/2016					<0.001		<0.001	<0.001	
5/16/2016	<0.001 (D)					<0.001			<0.001
7/19/2016		<0.001 (*)					<0.001 (*)	<0.001	
7/20/2016				<0.001					
7/21/2016			<0.001		<0.001				
7/22/2016						0.0002 (J)			
7/25/2016									<0.001
7/27/2016	0.0002 (JD)								
9/15/2016		<0.001	<0.001	<0.001					
9/16/2016							<0.001	<0.001	
9/19/2016						<0.001			<0.001
9/21/2016					<0.001				
11/2/2016		<0.001					<0.001	<0.001	
11/3/2016			<0.001	<0.001	<0.001	<0.001			<0.001
1/17/2017			<0.001		<0.001	<0.001			
1/18/2017		<0.001		<0.001			<0.001	<0.001	
1/19/2017									<0.001
2/21/2017	<0.001								
3/24/2017			<0.001	<0.001					
3/27/2017	<0.001 (D)				<0.001	<0.001			
3/28/2017		5E-05 (J)					5E-05 (J)	<0.001	5E-05 (J)
5/24/2017			<0.001						
6/5/2017									5E-05 (J)
6/6/2017				<0.001	0.0002 (J)		<0.001	<0.001	
6/7/2017		<0.001				<0.001			
6/8/2017	<0.001 (D)								
7/17/2017	<0.001 (D)								
7/27/2017	<0.001								
8/9/2017	<0.001								
9/22/2017							<0.001	<0.001	
9/25/2017				<0.001	<0.001				
9/26/2017		7E-05 (J)	<0.001			<0.001			<0.001
9/29/2017	<0.001 (D)								
3/14/2018		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/15/2018								<0.001	<0.001
3/16/2018	<0.001								
9/12/2018		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
9/14/2018	<0.001					<0.001			
3/13/2019			<0.001				<0.001	<0.001	
3/14/2019	<0.001			<0.001	<0.001	<0.001			<0.001
3/15/2019		<0.001							
9/9/2019		<0.001	<0.001						
9/10/2019				<0.001 (D)	<0.001	<0.001			
9/11/2019							6.2E-05 (J)	<0.001	<0.001
3/6/2020				<0.001		8.6E-05 (J)			
3/9/2020	<0.001	<0.001	7.8E-05 (J)		6.1E-05 (J)		<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.001	<0.001	0.00116	<0.001		
3/16/2016	<0.001	<0.001						
3/17/2016							<0.001	<0.001
5/16/2016	<0.001	<0.001						
5/17/2016			<0.001			<0.001		
5/18/2016				<0.001	0.000768 (J)		<0.001	<0.001
7/25/2016	<0.001	<0.001						
7/26/2016			7E-05 (J)					
7/27/2016				9E-05 (J)	0.0004 (J)	9E-05 (J)	0.0001 (J)	
7/28/2016								<0.001
9/19/2016	<0.001	<0.001						
9/20/2016			<0.001	<0.001	0.0004 (J)	<0.001		
9/21/2016							<0.001	<0.001
11/3/2016		<0.001						
11/4/2016	<0.001		<0.001		0.0003 (J)	<0.001	<0.001	
11/7/2016				<0.001				<0.001
1/20/2017		<0.001	<0.001		0.0003 (J)			
1/23/2017	<0.001			<0.001		<0.001		
1/24/2017							<0.001	<0.001
3/28/2017			7E-05 (J)			6E-05 (J)		
3/29/2017	<0.001	<0.001		7E-05 (J)	0.0003 (J)		<0.001	
3/30/2017								5E-05 (J)
6/7/2017	<0.001	<0.001	6E-05 (J)					
6/8/2017				<0.001	0.0003 (J)	8E-05 (J)	<0.001	
6/9/2017								<0.001
9/27/2017	<0.001	<0.001		6E-05 (J)	0.0003 (J)			
9/29/2017			6E-05 (J)			9E-05 (J)	<0.001	<0.001
3/15/2018	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/16/2018					0.00036 (J)			
9/13/2018	<0.001	<0.001	<0.001	<0.001	0.00021 (J)	<0.001	<0.001	
9/14/2018								<0.001
3/14/2019	<0.001	<0.001						
3/15/2019				<0.001		<0.001		
3/18/2019			<0.001				<0.001	
3/19/2019					0.00027 (J)			<0.001
9/11/2019	<0.001	<0.001	<0.001		0.00023 (J)	0.000115 (JD)	<0.001	<0.001
9/12/2019				<0.001				
3/9/2020				<0.001	0.00021 (J)	9E-05 (J)		<0.001
3/10/2020	<0.001	<0.001	<0.001					
3/11/2020							<0.001	

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)	GWA-39Z (bg)	GWA-40 (bg)	GWA-41 (bg)	GWA-41R (bg)	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44
3/11/2016						139	69	144	
3/14/2016		106							
3/15/2016			107	110	78				
3/16/2016									<10
5/11/2016		58	80						
5/12/2016				49					
5/13/2016					178		88	142	
5/16/2016	114 (D)					112			35
7/19/2016		46					56	135	
7/20/2016				72					
7/21/2016			76		168				
7/22/2016						136			
7/25/2016									24 (J)
7/27/2016	107 (D)								
9/15/2016		41		18 (J)					
9/16/2016							31	144	
9/19/2016			108			121			19 (J)
9/21/2016					123				
11/2/2016		37					48	152	
11/3/2016			90	70	157	132			34
1/17/2017			128		170	150			
1/18/2017		29		63			44	125	
1/19/2017									13 (J)
2/21/2017	229 (D)								
3/24/2017			91	63					
3/27/2017	239 (D)				158	148			
3/28/2017		40					<10	109	<10
5/24/2017			152						
6/5/2017									206
6/6/2017				128	212		36	154	
6/7/2017						181			
6/8/2017	179 (D)								
7/17/2017	180 (D)								
7/20/2017									72
7/27/2017	190 (D)								
8/9/2017	153 (D)								
9/22/2017							41	157	
9/25/2017				109	145				
9/26/2017		107	103			113			35
9/29/2017	173 (D)								
3/14/2018		126	123	192	210	134	<10		
3/15/2018								117	41
3/16/2018	150								
9/12/2018		134	105	82	159		<10	151	<10
9/14/2018	165					139			
3/13/2019			130				31	152	
3/14/2019	154			119	157	157			110
3/15/2019		107							
9/9/2019		93	108						
9/10/2019	181			36	113	105			
9/11/2019							21	151	58
3/6/2020				137		143			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			<0.01	<0.01	<0.01	<0.01		
3/16/2016	<0.01	<0.01						
3/17/2016							<0.01	<0.01
5/16/2016	<0.01	<0.01						
5/17/2016			<0.01			<0.01		
5/18/2016				<0.01	<0.01		<0.01	<0.01
7/25/2016	0.0022 (J)	<0.01						
7/26/2016			<0.01					
7/27/2016				<0.01	<0.01	<0.01	<0.01	
7/28/2016								<0.01
9/19/2016	<0.01	<0.01						
9/20/2016			<0.01	<0.01	<0.01	<0.01		
9/21/2016							<0.01	<0.01
11/3/2016		<0.01						
11/4/2016	<0.01		<0.01		<0.01	<0.01	<0.01	
11/7/2016				<0.01				<0.01
1/20/2017		<0.01	<0.01		<0.01			
1/23/2017	<0.01			<0.01		<0.01		
1/24/2017							<0.01	<0.01
3/28/2017			<0.01			<0.01		
3/29/2017	<0.01	<0.01		<0.01	<0.01		<0.01	
3/30/2017								<0.01
9/27/2017	<0.01	<0.01		<0.01	<0.01			
9/29/2017			<0.01			<0.01	<0.01	<0.01
3/15/2018	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
3/16/2018					<0.01			
9/13/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
9/14/2018								<0.01
3/14/2019	<0.01	<0.01						
3/15/2019				<0.01		<0.01		
3/18/2019			<0.01				<0.01	
3/19/2019					<0.01			<0.01
9/11/2019	<0.01	<0.01	<0.01		<0.01	<0.01 (D)	<0.01	<0.01
9/12/2019				<0.01				
3/9/2020				<0.01	0.00075 (J)	<0.01		<0.01
3/10/2020	<0.01	<0.01	<0.01					
3/11/2020							<0.01	

Time Series

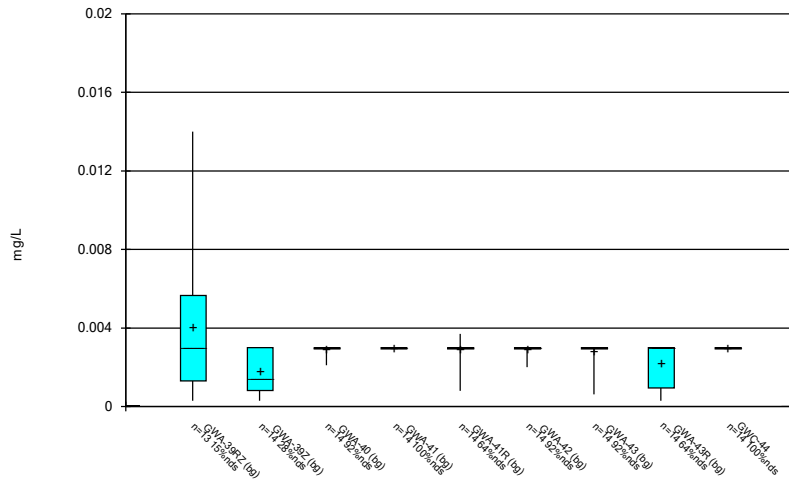
Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:23 AM View: Descriptive

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48	GWC-49R	GWC-49Z
3/10/2016			0.00373 (J)	0.027	0.0154	0.00432 (J)		
3/16/2016	0.00599 (J)	0.000113 (J)						
3/17/2016							<0.01	<0.01
5/16/2016	<0.01	0.00452 (J)						
5/17/2016			0.00268 (J)			0.00672 (J)		
5/18/2016				0.0277	0.0136		<0.01	0.00208 (J)
7/25/2016	<0.01 (*)	<0.01 (*)						
7/26/2016			<0.01 (*)					
7/27/2016				0.0221	0.0153	<0.01 (*)	<0.01 (*)	
7/28/2016								<0.01 (*)
9/19/2016	0.0061 (J)	0.0034 (J)						
9/20/2016			0.0058 (J)	0.03	0.0173	0.0081 (J)		
9/21/2016							<0.01	0.0079 (J)
11/3/2016		0.0039 (J)						
11/4/2016	0.0032 (J)		0.0029 (J)		0.0149	0.0071 (J)	<0.01	
11/7/2016				0.0202				<0.01 (*)
1/20/2017		0.0023 (J)	<0.01		0.0134			
1/23/2017	0.0031 (J)			0.0156		<0.01		
1/24/2017							<0.01	0.0053 (J)
3/28/2017			<0.01 (*)			<0.01 (*)		
3/29/2017	<0.01 (*)	<0.01 (*)		<0.01 (*)	<0.01 (*)		<0.01 (*)	
3/30/2017								<0.01 (*)
9/27/2017	0.0048 (J)	0.0036 (J)		0.0196	0.0111			
9/29/2017			0.0016 (J)			0.0055 (J)	<0.01	0.004 (J)
12/28/2017				0.0315 (Y)				
3/15/2018	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
3/16/2018					0.012			
9/13/2018	<0.01	<0.01	<0.01	0.031	<0.01	<0.01	<0.01	
9/14/2018								<0.01
3/14/2019	<0.01	0.0022 (J)						
3/15/2019				0.051		0.0058 (J)		
3/18/2019			<0.01				<0.01	
3/19/2019					0.016			0.0034 (J)
9/11/2019	0.0065 (J)	0.0058 (J)	0.0055 (J)		0.028	0.011 (D)	0.005 (J)	0.0085 (J)
9/12/2019				0.035				
3/9/2020				0.044	0.032	0.0079 (J)		0.0047 (J)
3/10/2020	0.0031 (J)	0.0035 (J)	0.0029 (J)					
3/11/2020							0.0036 (J)	

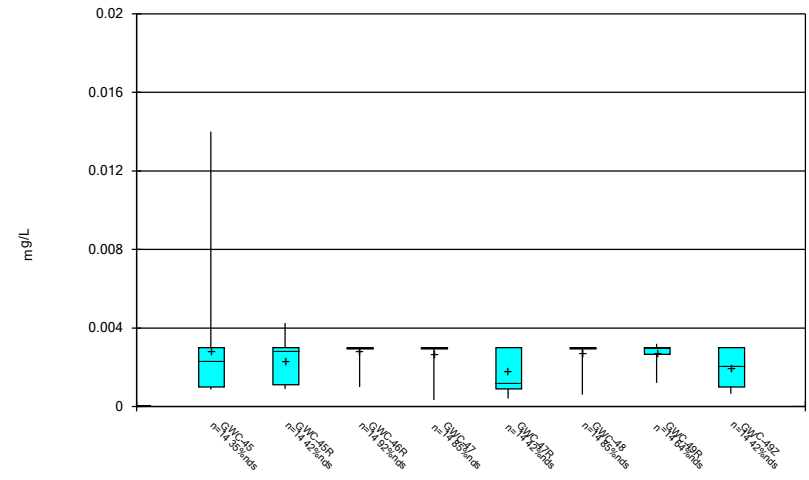
FIGURE B.

Box & Whiskers Plot



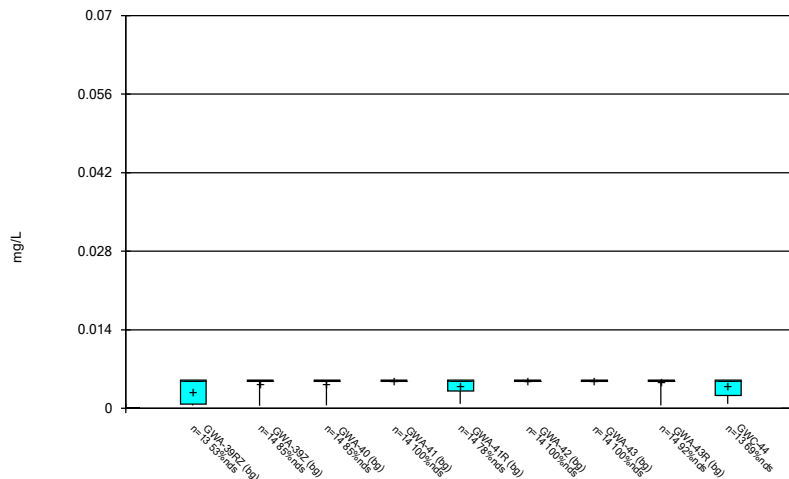
Constituent: Antimony Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



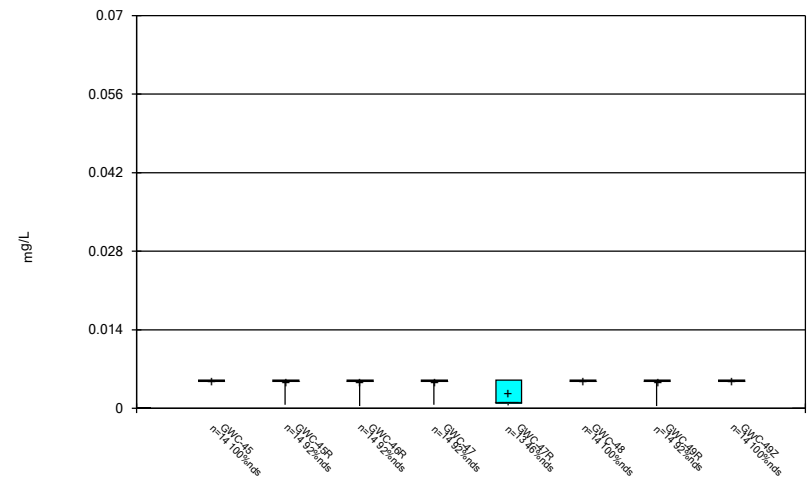
Constituent: Antimony Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



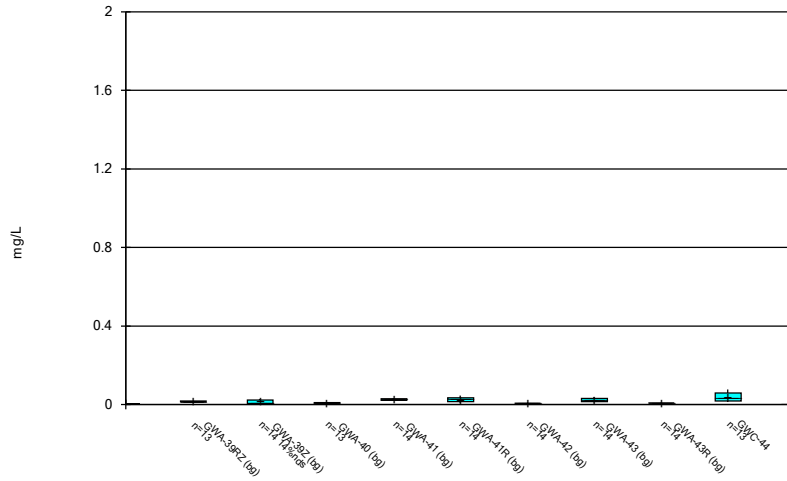
Constituent: Arsenic Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



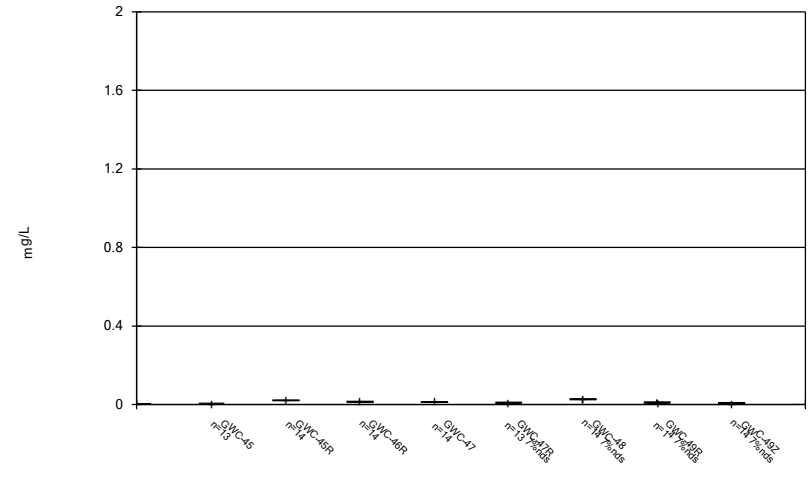
Constituent: Arsenic Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



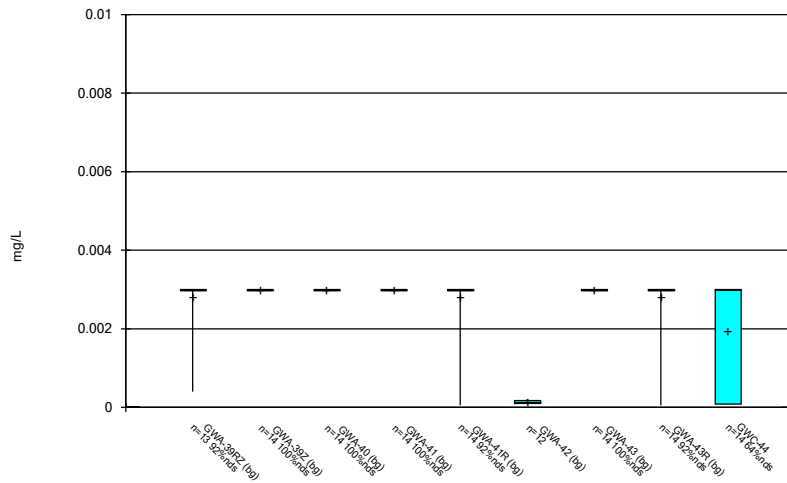
Constituent: Barium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



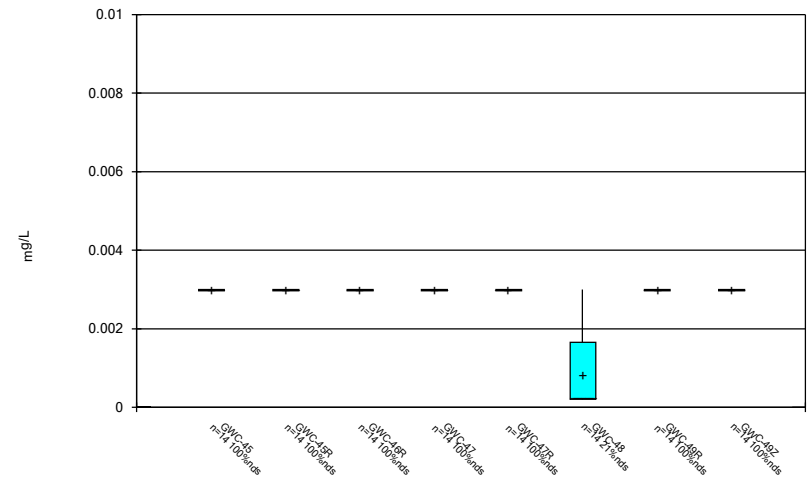
Constituent: Barium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



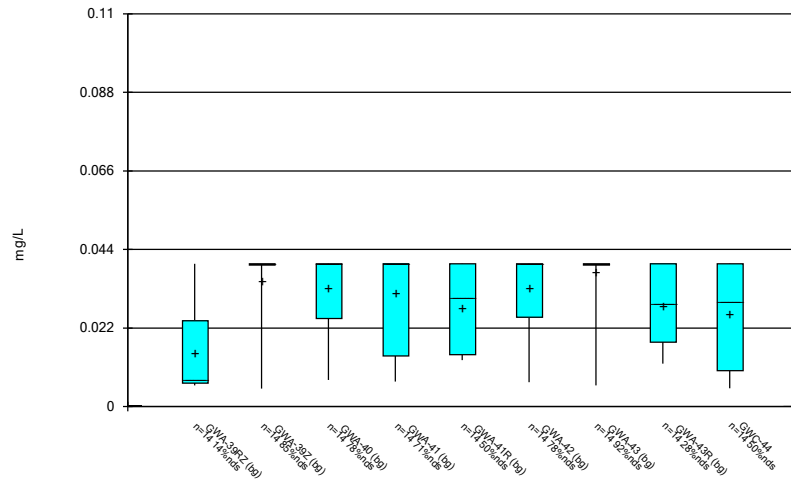
Constituent: Beryllium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



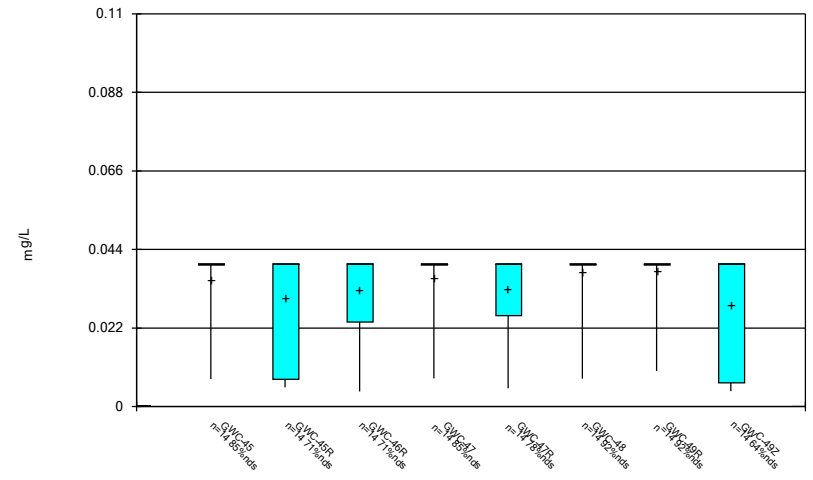
Constituent: Beryllium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



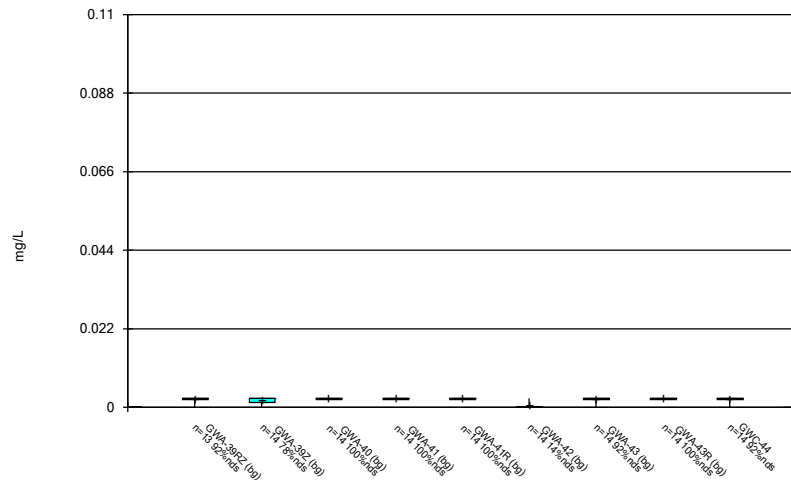
Constituent: Boron Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



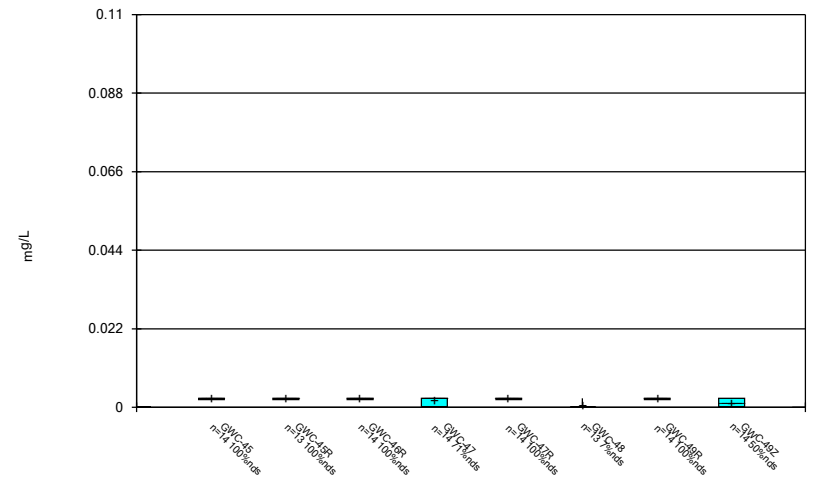
Constituent: Boron Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



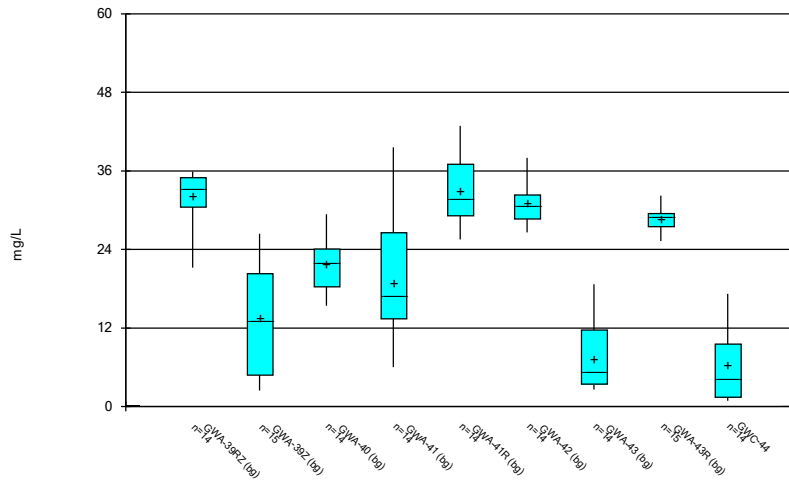
Constituent: Cadmium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



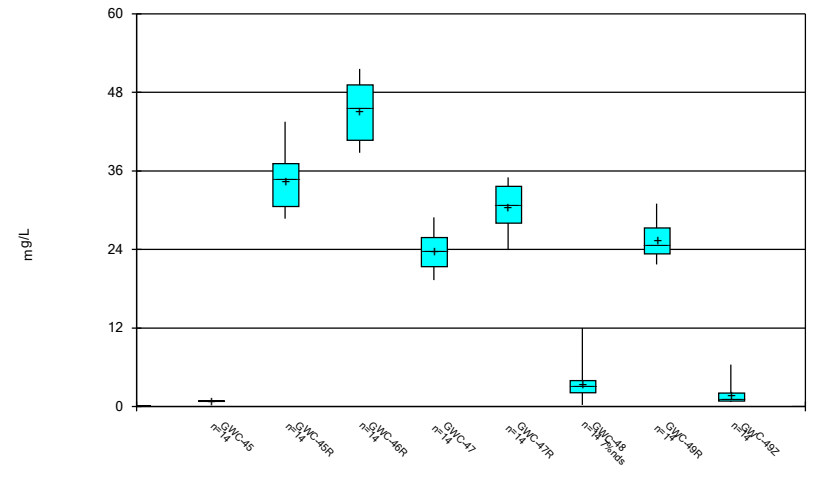
Constituent: Cadmium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



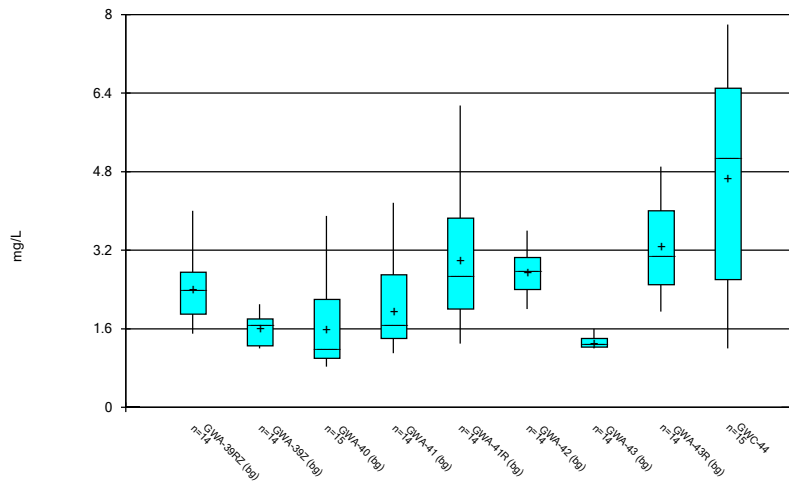
Constituent: Calcium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



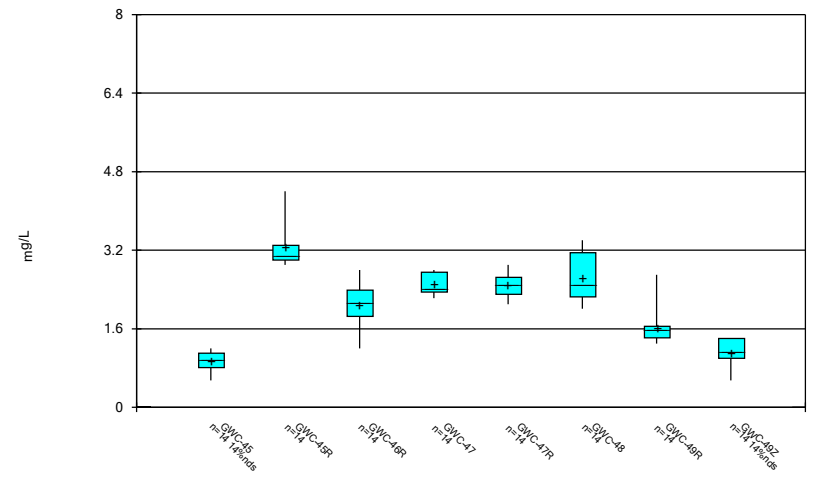
Constituent: Calcium Analysis Run 4/17/2020 7:24 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



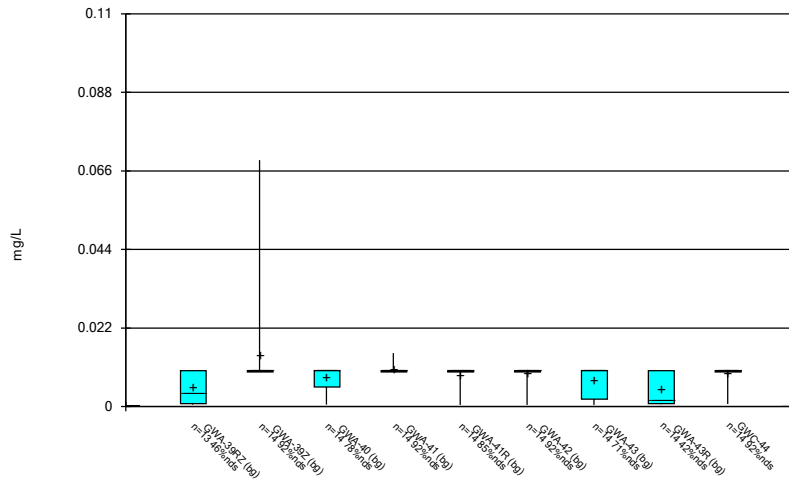
Constituent: Chloride Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



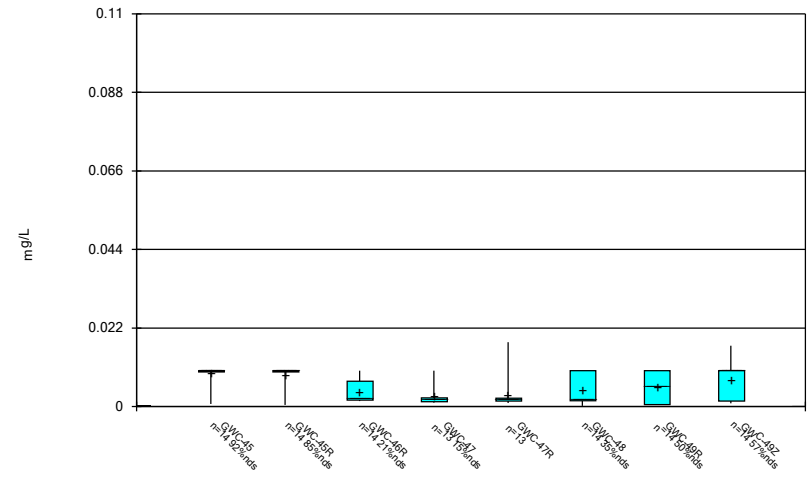
Constituent: Chloride Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



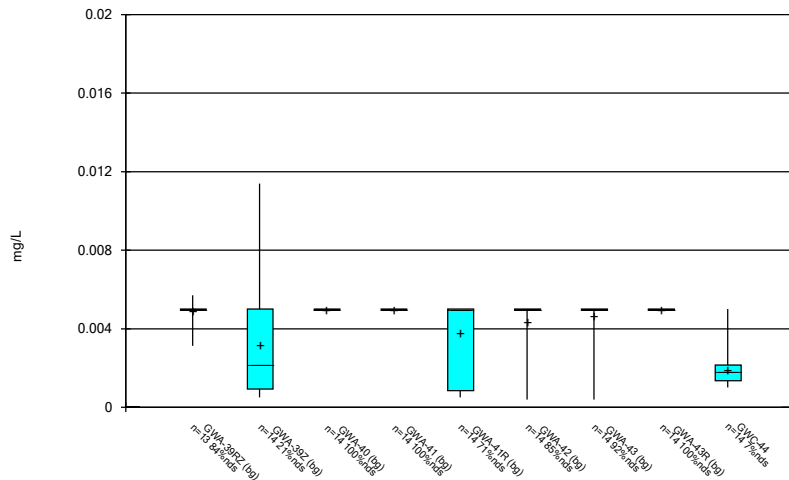
Constituent: Chromium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



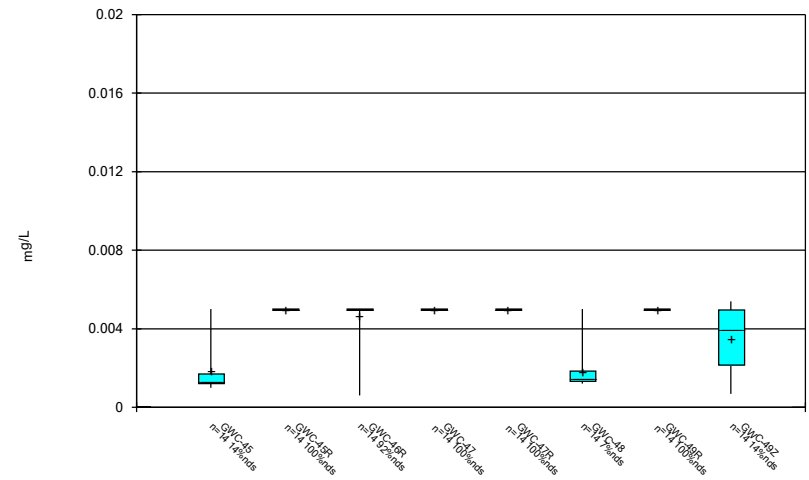
Constituent: Chromium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



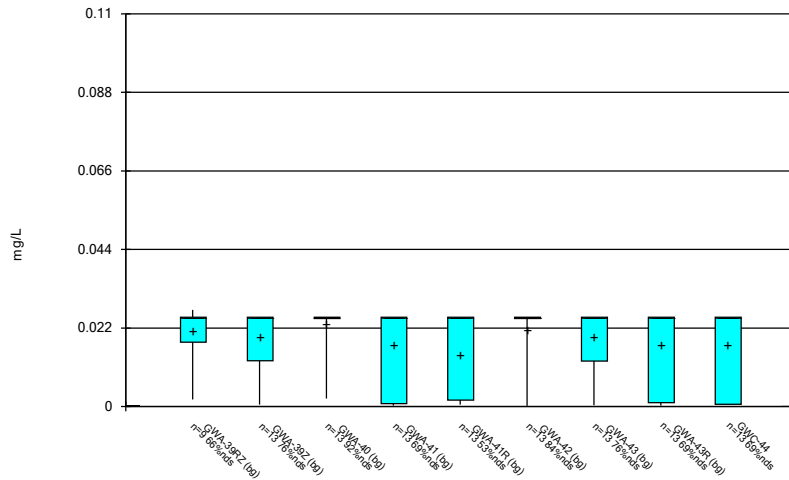
Constituent: Cobalt Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



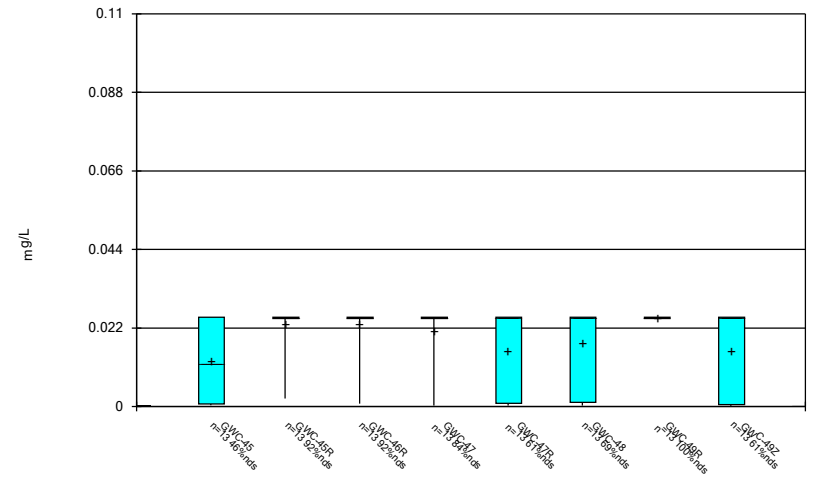
Constituent: Cobalt Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



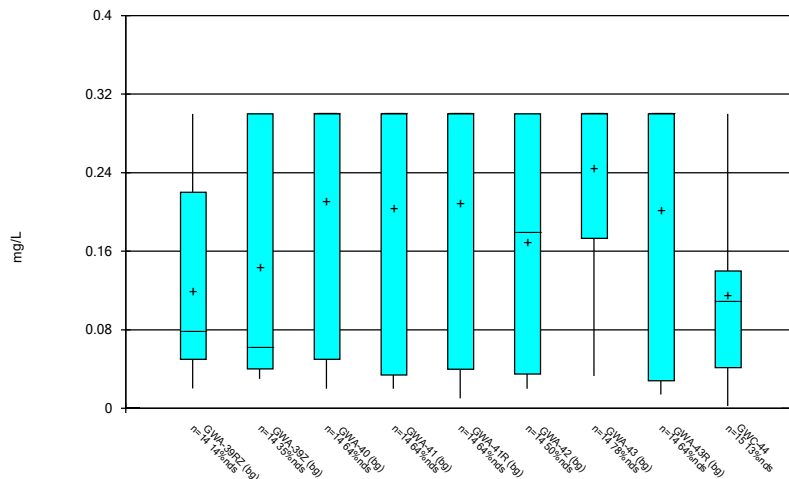
Constituent: Copper Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



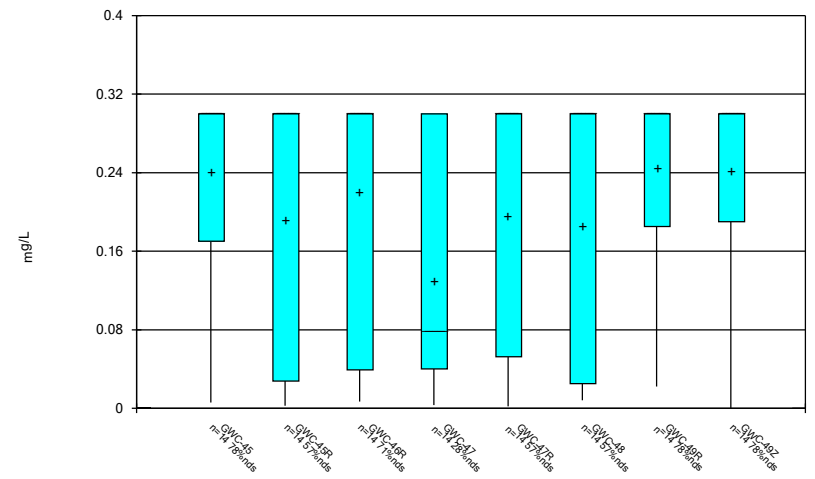
Constituent: Copper Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



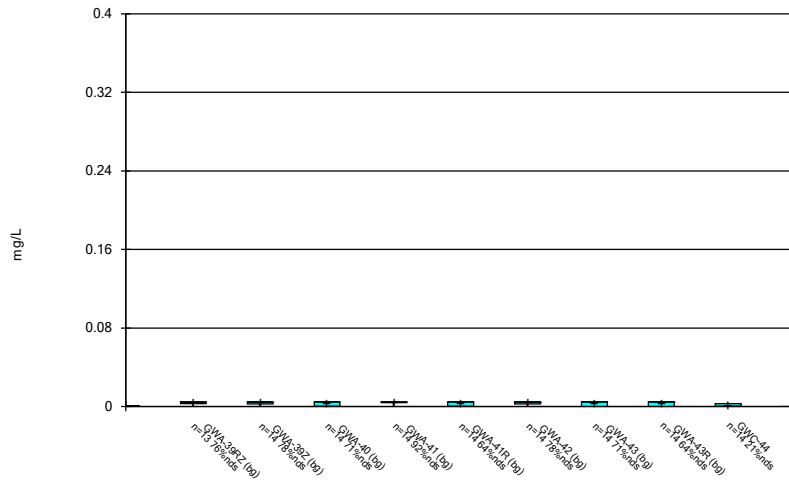
Constituent: Fluoride Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



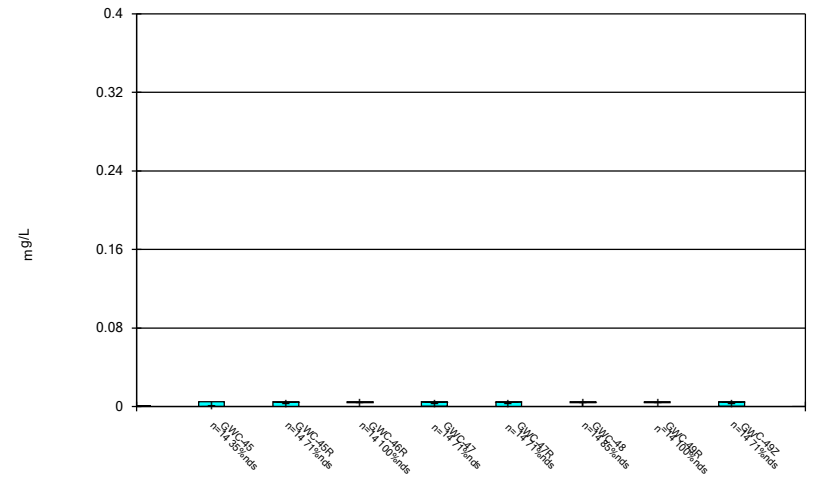
Constituent: Fluoride Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



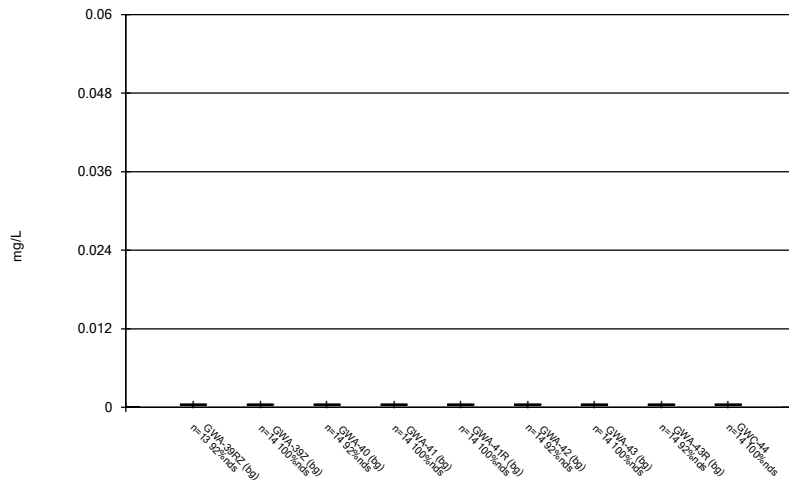
Constituent: Lead Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



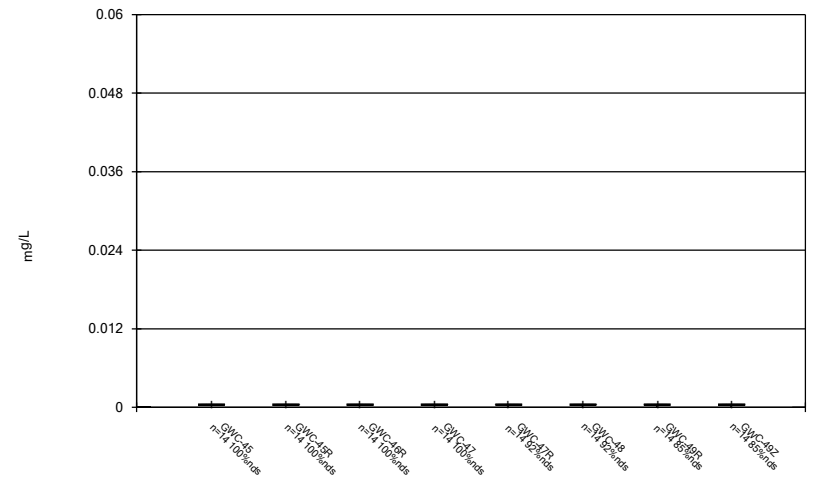
Constituent: Lead Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



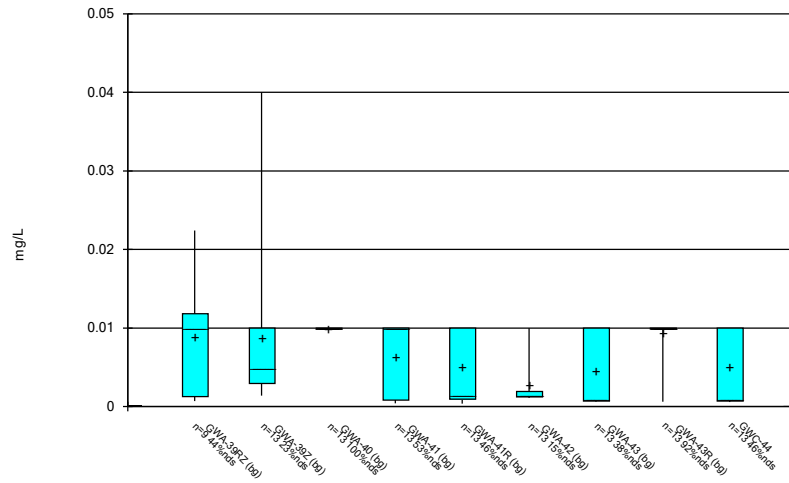
Constituent: Mercury Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



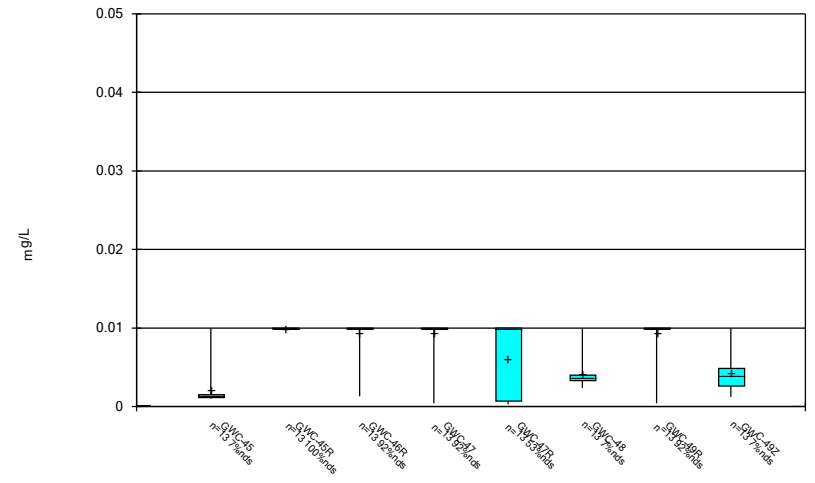
Constituent: Mercury Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



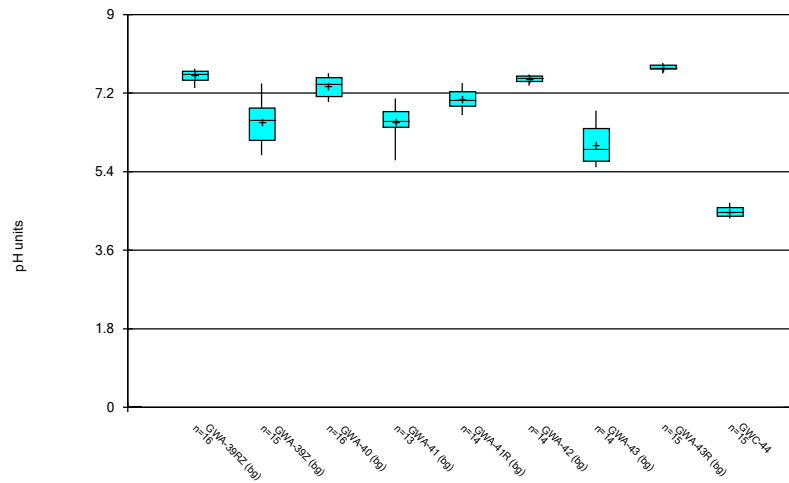
Constituent: Nickel Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



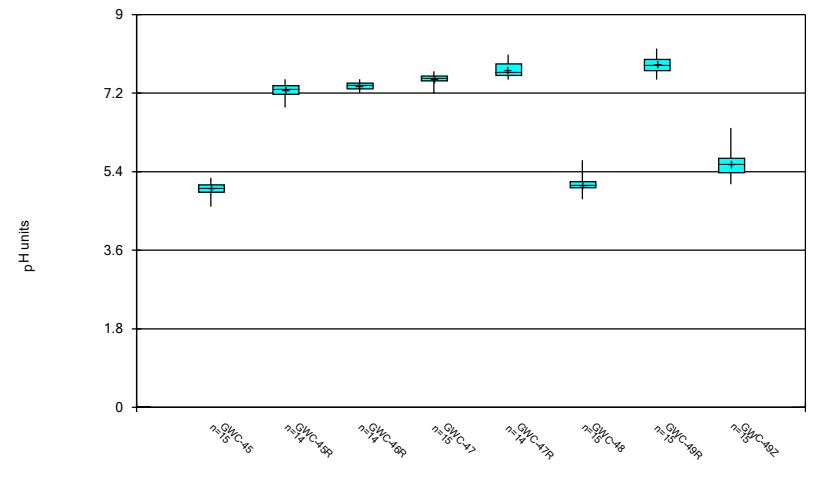
Constituent: Nickel Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



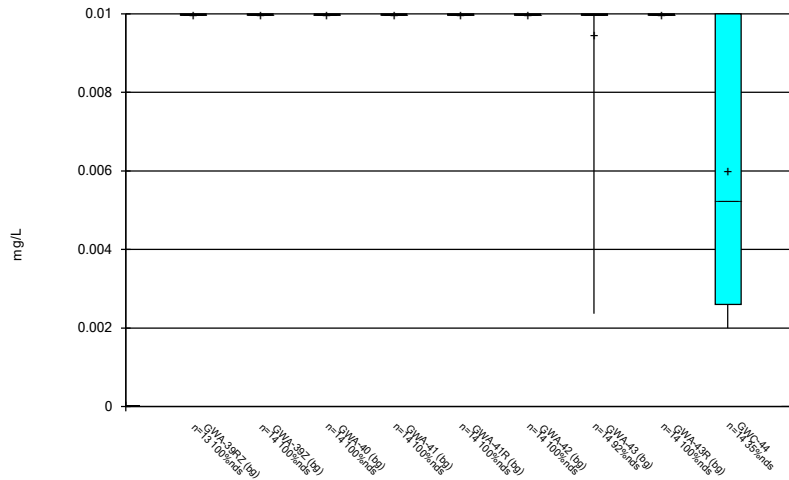
Constituent: pH Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



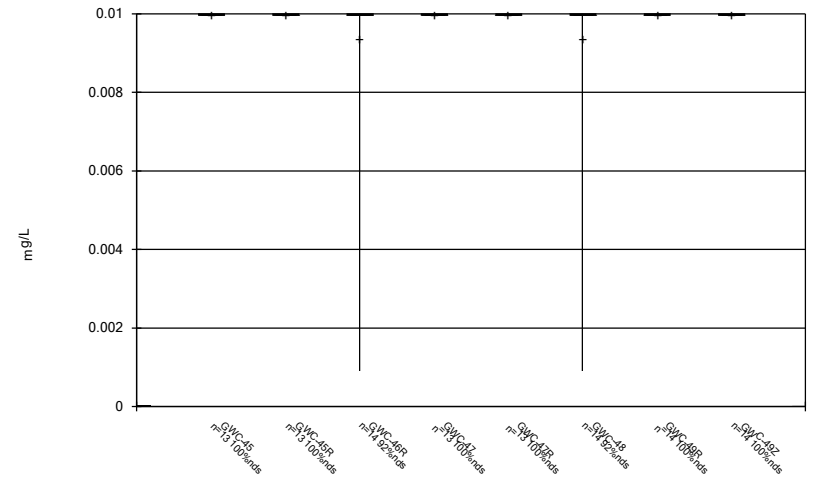
Constituent: pH Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



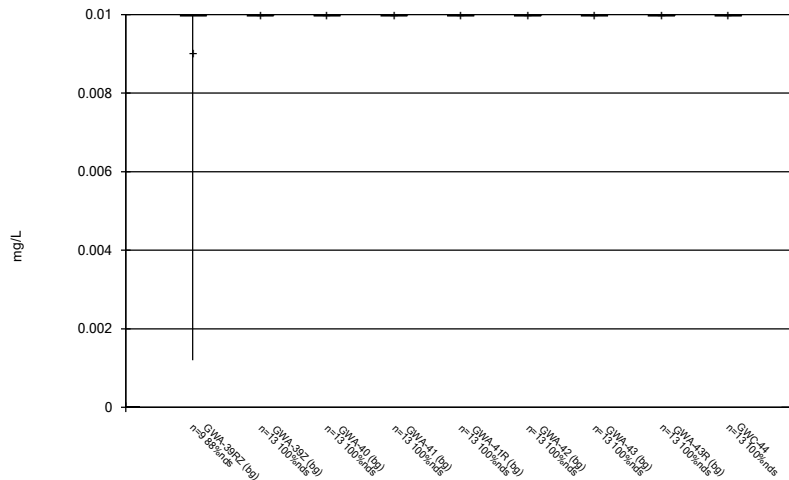
Constituent: Selenium Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



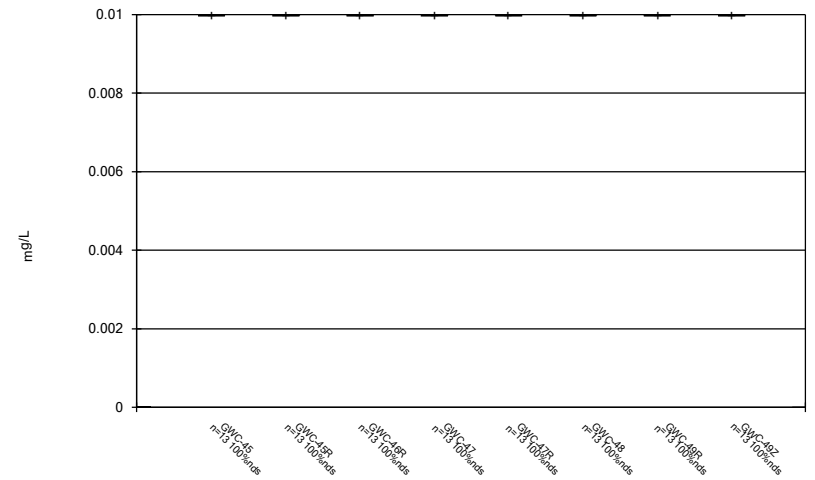
Constituent: Selenium Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



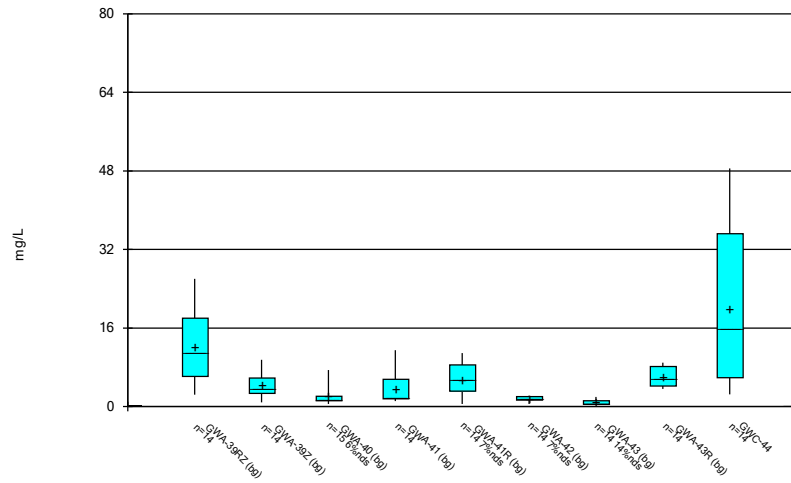
Constituent: Silver Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



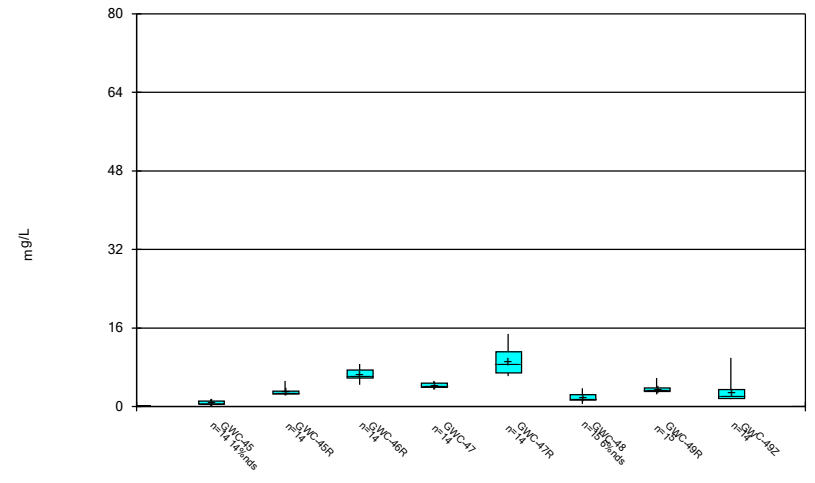
Constituent: Silver Analysis Run 4/17/2020 7:25 AM View: Descriptive
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



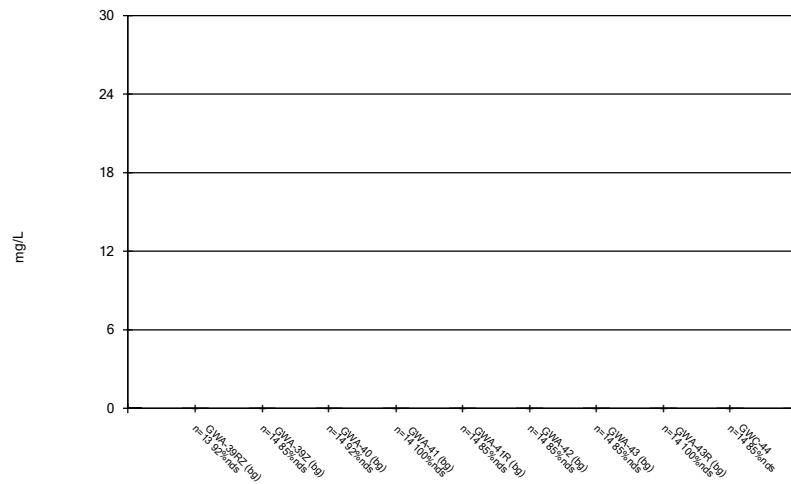
Constituent: Sulfate Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



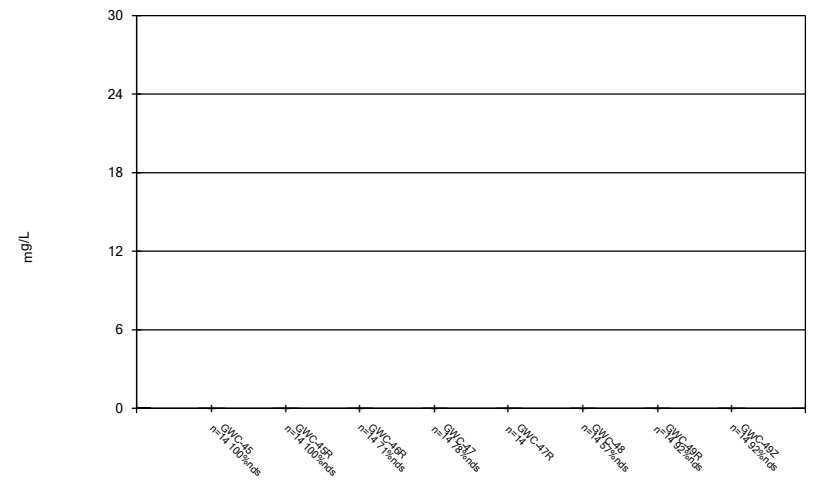
Constituent: Sulfate Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



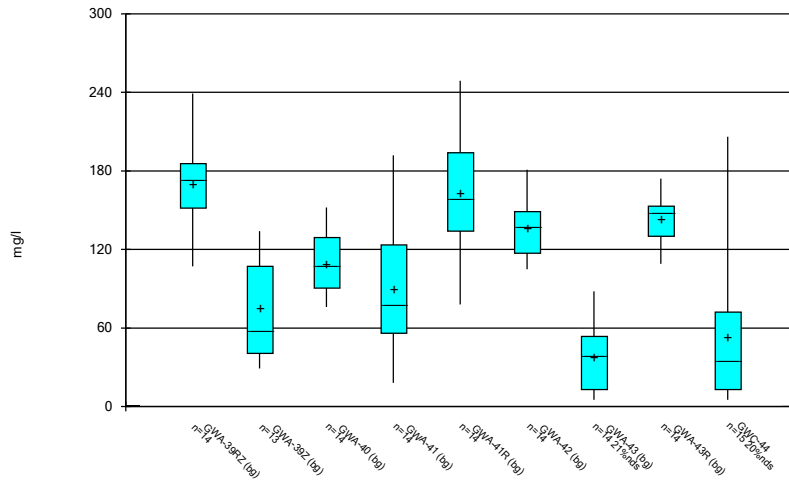
Constituent: Thallium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



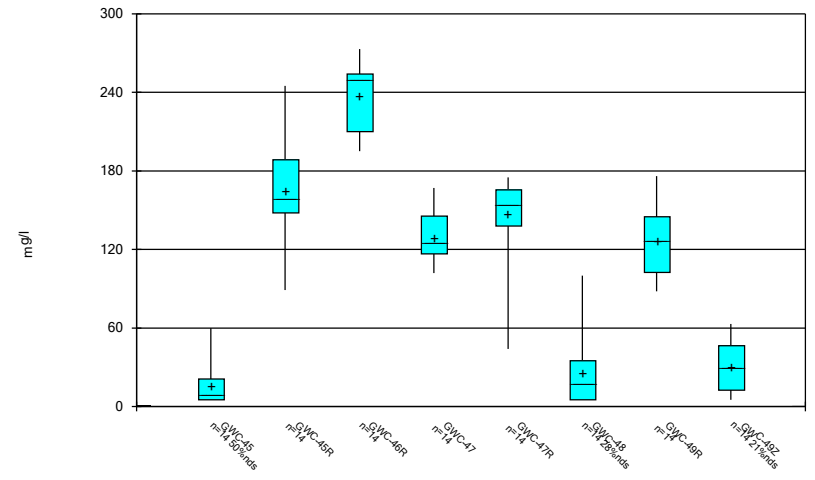
Constituent: Thallium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



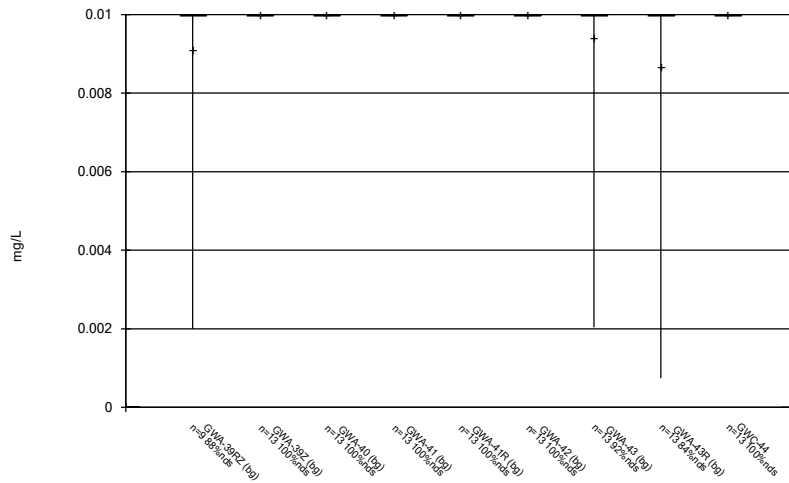
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



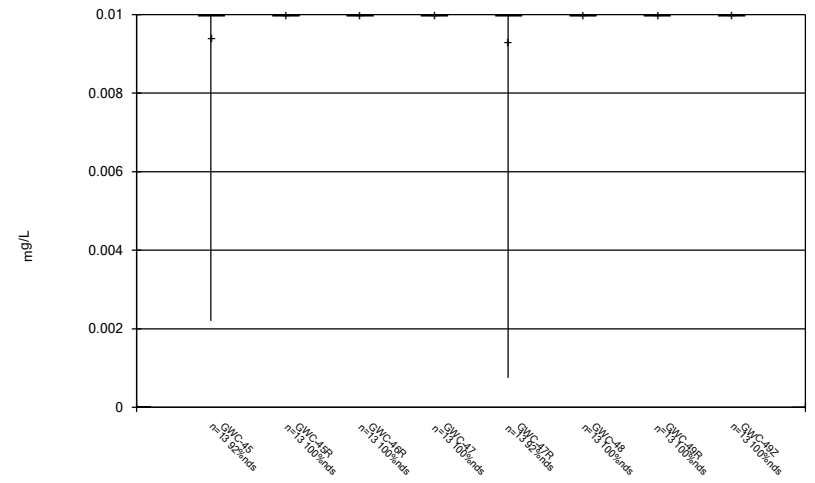
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



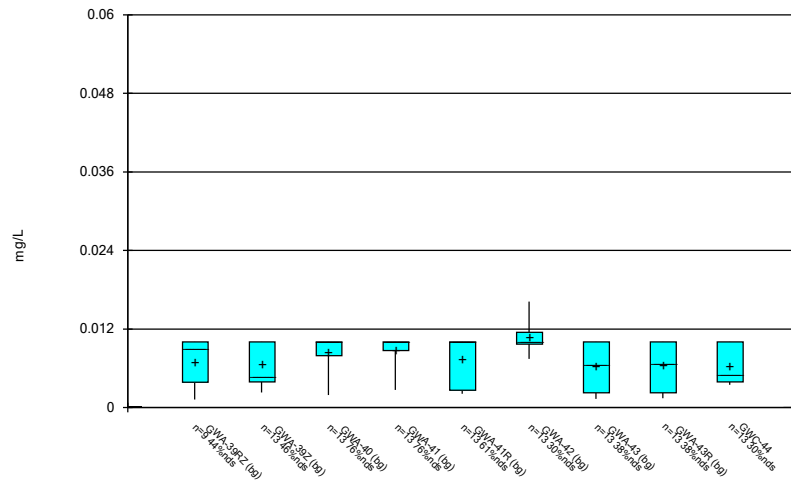
Constituent: Vanadium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



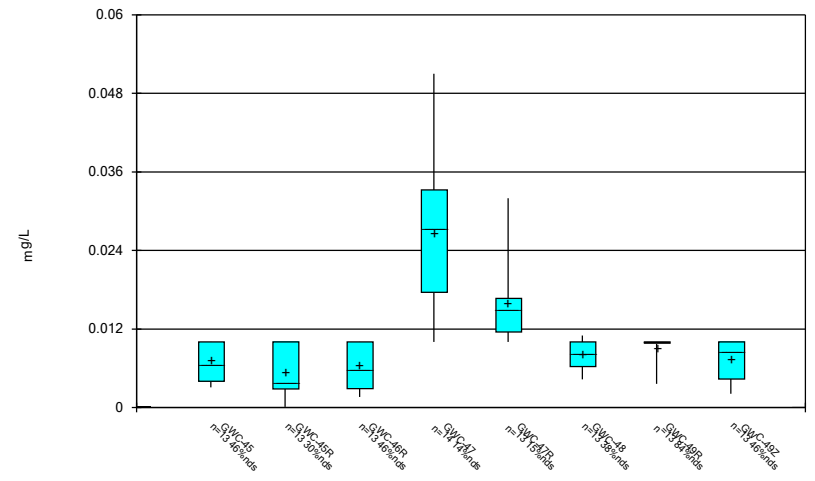
Constituent: Vanadium Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/17/2020 7:25 AM View: Descriptive
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE C.

Outlier Summary

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 11:02 AM

GWC-45 Antimony (mg/L) GWC-44 Arsenic (mg/L) GWC-47R Arsenic (mg/L) GWA-40 Barium (mg/L) GWC-44 Barium (mg/L) GWC-45 Barium (mg/L) GWC-47R Barium (mg/L) GWA-42 Beryllium (mg/L) GWC-45R Cadmium (mg/L) GWC-48 Cadmium (mg/L)

Date	GWC-45 Antimony (mg/L)	GWC-44 Arsenic (mg/L)	GWC-47R Arsenic (mg/L)	GWA-40 Barium (mg/L)	GWC-44 Barium (mg/L)	GWC-45 Barium (mg/L)	GWC-47R Barium (mg/L)	GWA-42 Beryllium (mg/L)	GWC-45R Cadmium (mg/L)	GWC-48 Cadmium (mg/L)
3/10/2016			0.0551 (o)				0.0344 (o)			0.0195 (Jo)
3/11/2016								<0.003 (o)		
3/15/2016				<3 (o)						
3/16/2016		0.0657 (o)			<3 (o)	0.6294 (o)			0.0167 (o)	
5/16/2016								<0.003 (o)		
5/18/2016										
9/27/2017	0.0111 (o)									
3/14/2019										

GWC-47 Chromium (mg/L) GWC-47R Chromium (mg/L) GWC-44 Sulfate (mg/L)

Date	GWC-47 Chromium (mg/L)	GWC-47R Chromium (mg/L)	GWC-44 Sulfate (mg/L)
3/10/2016	0.0439 (o)		
3/11/2016			
3/15/2016			
3/16/2016			
5/16/2016			
5/18/2016		0.00606 (Jo)	
9/27/2017			
3/14/2019			79.7 (O)

FIGURE D.

Intrawell Prediction Limits (State) - Bedrock Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/9/2020	0.0037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/11/2020	0.026	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/9/2020	0.032	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3

Intrawell Prediction Limits (State) - Bedrock All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39RZ	0.007699	n/a	3/9/2020	0.0013	11	0.003012	0.002494	18.18	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/9/2020	0.0037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-43R	0.003	n/a	3/9/2020	0.00037	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-45R	0.003517	n/a	3/10/2020	0.003ND	11	0.001604	0.001018	27.27	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWC-46R	0.003	n/a	3/10/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-47R	0.001616	n/a	3/9/2020	0.00056	11	0.03034	0.005246	45.45	Kaplan-Meier	sqrt(x)	0.0008228	Param Intra 1 of 3
Antimony (mg/L)	GWC-49R	0.003	n/a	3/11/2020	0.0012	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-39RZ	0.005	n/a	3/9/2020	0.00083	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-43R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-45R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-46R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-47R	0.005	n/a	3/9/2020	0.00051	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-49R	0.005	n/a	3/11/2020	0.00041	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-39RZ	0.01964	n/a	3/9/2020	0.017	11	0.01544	0.002236	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWA-41R	0.0447	n/a	3/9/2020	0.031	11	0.02243	0.01186	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWA-43R	0.008996	n/a	3/9/2020	0.0069	11	0.008105	0.0004743	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-45R	0.02411	n/a	3/10/2020	0.024	11	0.02006	0.002154	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-46R	0.02079	n/a	3/10/2020	0.013	11	0.01549	0.002822	0	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-47R	0.01808	n/a	3/9/2020	0.0082	10	0.01146	0.003404	10	None	No	0.0008228	Param Intra 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/11/2020	0.026	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param Intra 1 of 3
Beryllium (mg/L)	GWA-39RZ	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-41R	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWA-43R	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-39RZ	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.0016	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.0004	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43R	0.002735	n/a	3/9/2020	0.0014	11	-6.826	0.492	45.45	Kaplan-Meier	ln(x)	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-45R	0.01	n/a	3/10/2020	0.00092	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/10/2020	0.0035	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-47R	0.003043	n/a	3/9/2020	0.0023	10	0.001916	0.0005792	0	None	No	0.0008228	Param Intra 1 of 3
Chromium (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0012	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39RZ	0.0057	n/a	3/9/2020	0.005ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-46R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-39RZ	0.0271	n/a	3/9/2020	0.011	7	n/a	n/a	71.43	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41R	0.025	n/a	3/9/2020	0.0014	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43R	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45R	0.025	n/a	3/10/2020	0.025ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-46R	0.025	n/a	3/10/2020	0.025ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-47R	0.025	n/a	3/9/2020	0.00032	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-39RZ	0.005	n/a	3/9/2020	0.00027	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41R	0.005	n/a	3/9/2020	0.000049	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-43R	0.005	n/a	3/9/2020	0.000096	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-45R	0.005	n/a	3/10/2020	0.005ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-47R	0.005	n/a	3/9/2020	0.00008	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-39RZ	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-43R	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-47R	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49R	0.0005	n/a	3/11/2020	0.0005ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3

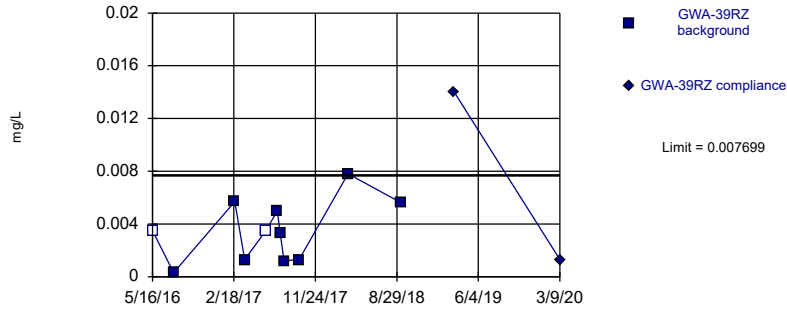
Intrawell Prediction Limits (State) - Bedrock All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWA-39RZ	0.0224	n/a	3/9/2020	0.00083	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.00036	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-43R	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-46R	0.01	n/a	3/10/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-47R	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0004	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-46R	0.01	n/a	3/10/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Silver (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.01ND	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-39RZ	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-41R	0.001	n/a	3/9/2020	0.000061	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-46R	0.001	n/a	3/10/2020	0.001ND	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-47R	0.0009583	n/a	3/9/2020	0.00021	11	-7.867	0.4878	0	None	ln(x)	0.0008228	Param Intra 1 of 3
Thallium (mg/L)	GWC-49R	0.001	n/a	3/11/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.01ND	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-43R	0.01	n/a	3/9/2020	0.00074	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-47R	0.01	n/a	3/9/2020	0.00075	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39RZ	0.01	n/a	3/9/2020	0.009	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41R	0.01	n/a	3/9/2020	0.0024	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-43R	0.009267	n/a	3/9/2020	0.0022	10	0.004636	0.00238	50	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-45R	0.005777	n/a	3/10/2020	0.0035	10	0.002972	0.001441	40	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-46R	0.006359	n/a	3/10/2020	0.0029	10	0.05657	0.01191	50	Kaplan-Meier	sqrt(x)	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/9/2020	0.032	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param Intra 1 of 3
Zinc (mg/L)	GWC-49R	0.01	n/a	3/11/2020	0.0036	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Within Limit

Prediction Limit
Intrawell Parametric

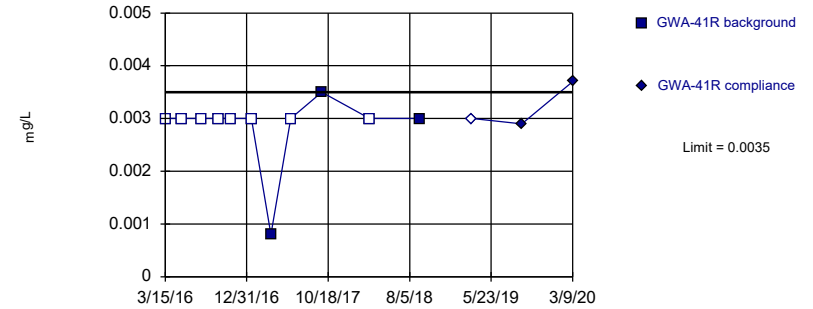


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003012, Std. Dev.=0.002494, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Antimony Analysis Run 4/17/2020 6:57 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

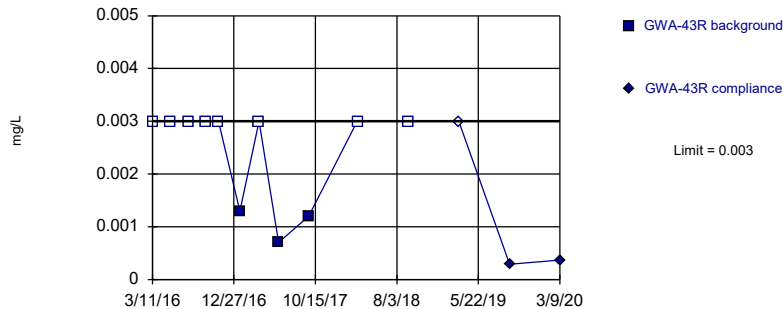


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 6:57 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

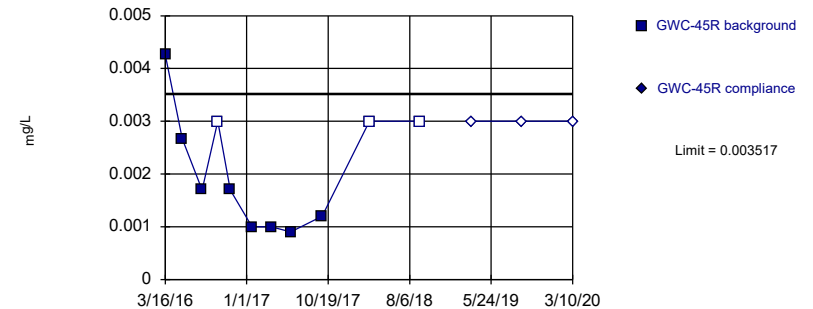


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 6:57 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001604, Std. Dev.=0.001018, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8897, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Antimony Analysis Run 4/17/2020 6:57 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0035 (D)	
7/27/2016	0.0003 (JD)	
2/21/2017	0.0057	
3/27/2017	0.0013 (JD)	
6/8/2017	<0.0035 (*)	
7/17/2017	0.005 (D)	
7/27/2017	0.0033	
8/9/2017	0.0012 (J)	
9/29/2017	0.0013 (JD)	
3/16/2018	0.0078	
9/14/2018	0.0056	
3/14/2019		0.014
3/9/2020		0.0013 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.003	
5/13/2016	<0.003	
7/21/2016	<0.003 (*)	
9/21/2016	<0.003	
11/3/2016	<0.003	
1/17/2017	<0.003	
3/27/2017	0.0008 (J)	
6/6/2017	<0.003	
9/25/2017	0.0035	
3/14/2018	<0.003	
9/12/2018	0.003	
3/14/2019		<0.003
9/10/2019		0.0029 (J)
3/9/2020		0.0037

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.003	
5/13/2016	<0.003	
7/19/2016	<0.003	
9/16/2016	<0.003	
11/2/2016	<0.003	
1/18/2017	0.0013 (J)	
3/28/2017	<0.003	
6/6/2017	0.0007 (J)	
9/22/2017	0.0012 (J)	
3/15/2018	<0.003	
9/12/2018	<0.003	
3/13/2019		<0.003
9/11/2019		0.00029 (J)
3/9/2020		0.00037 (J)

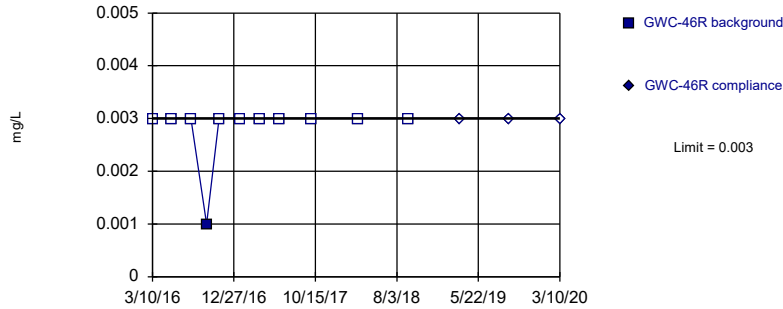
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	0.00426	
5/16/2016	0.00267 (J)	
7/25/2016	0.0017 (J)	
9/19/2016	<0.003	
11/3/2016	0.0017 (J)	
1/20/2017	0.001 (J)	
3/29/2017	0.001 (J)	
6/7/2017	0.0009 (J)	
9/27/2017	0.0012 (J)	
3/15/2018	<0.003	
9/13/2018	<0.003	
3/14/2019		<0.003
9/11/2019		<0.003
3/10/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

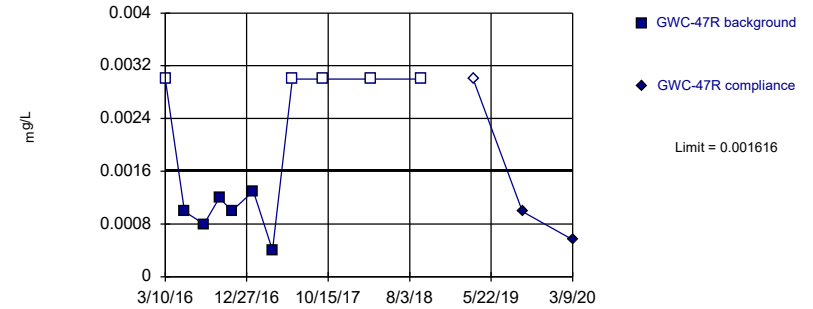


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

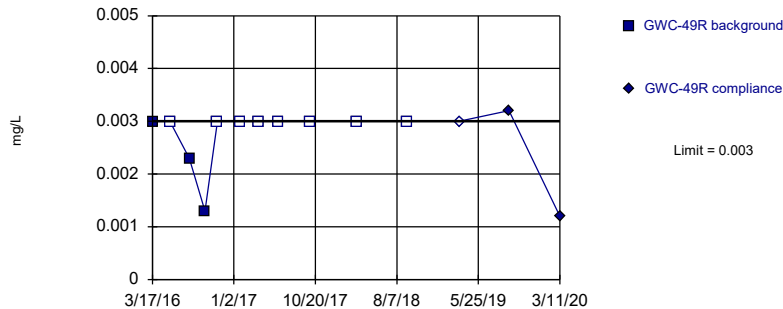


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03034, Std. Dev.=0.005246, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8154, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Antimony Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

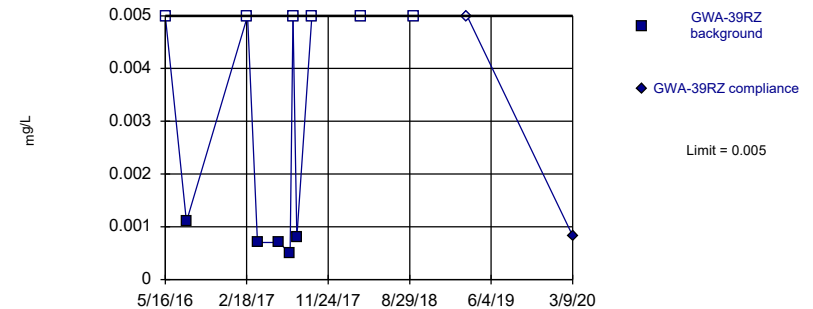


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.003	
5/17/2016	<0.003	
7/26/2016	<0.003	
9/20/2016	0.001 (J)	
11/4/2016	<0.003	
1/20/2017	<0.003	
3/28/2017	<0.003	
6/7/2017	<0.003	
9/29/2017	<0.003	
3/15/2018	<0.003	
9/13/2018	<0.003	
3/18/2019		<0.003
9/11/2019		<0.003
3/10/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.003	
5/18/2016	0.000987 (J)	
7/27/2016	0.0008 (J)	
9/20/2016	0.0012 (J)	
11/4/2016	0.001 (J)	
1/20/2017	0.0013 (J)	
3/29/2017	0.0004 (J)	
6/8/2017	<0.003 (*)	
9/27/2017	<0.003	
3/16/2018	<0.003	
9/13/2018	<0.003	
3/19/2019		<0.003
9/11/2019		0.00099 (J)
3/9/2020		0.00056 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	0.003	
5/18/2016	<0.003	
7/27/2016	0.0023 (J)	
9/21/2016	0.0013 (J)	
11/4/2016	<0.003	
1/24/2017	<0.003	
3/29/2017	<0.003	
6/8/2017	<0.003 (*)	
9/29/2017	<0.003	
3/15/2018	<0.003	
9/13/2018	<0.003	
3/18/2019		<0.003
9/11/2019		0.0032
3/11/2020		0.0012 (J)

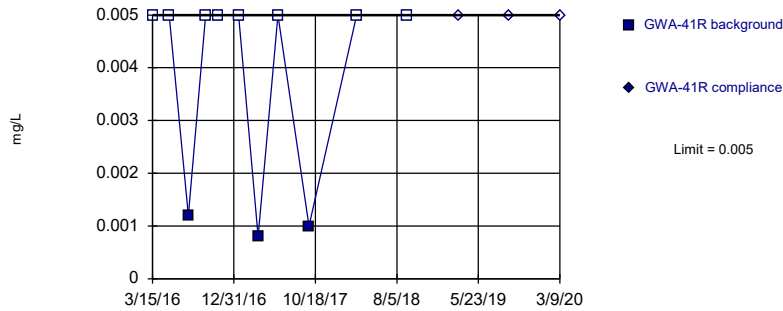
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.005 (D)	
7/27/2016	0.0011 (JD)	
2/21/2017	<0.005	
3/27/2017	0.0007 (JD)	
6/8/2017	0.0007 (JD)	
7/17/2017	0.0005 (JD)	
7/27/2017	<0.005	
8/9/2017	0.0008 (J)	
9/29/2017	<0.005 (D)	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/14/2019		<0.005
3/9/2020		0.00083 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

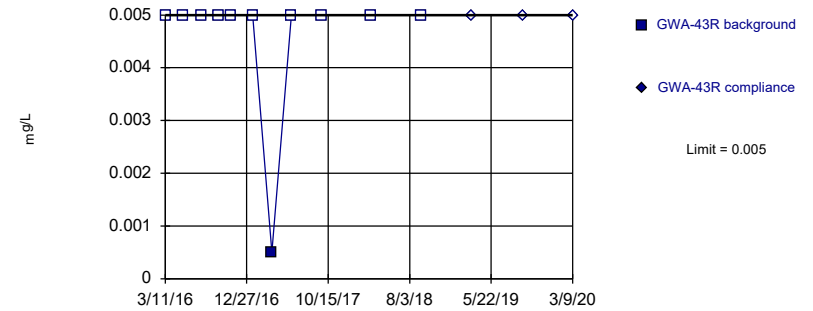


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

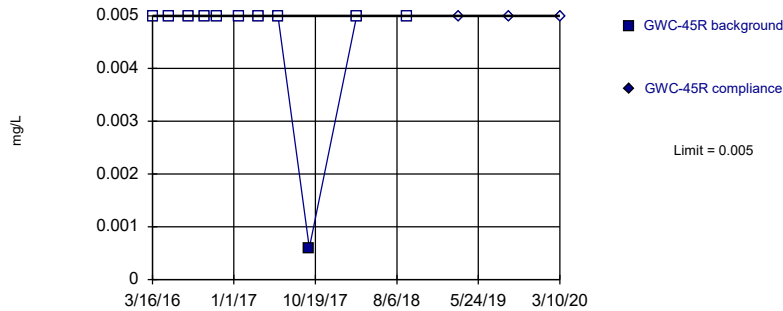


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

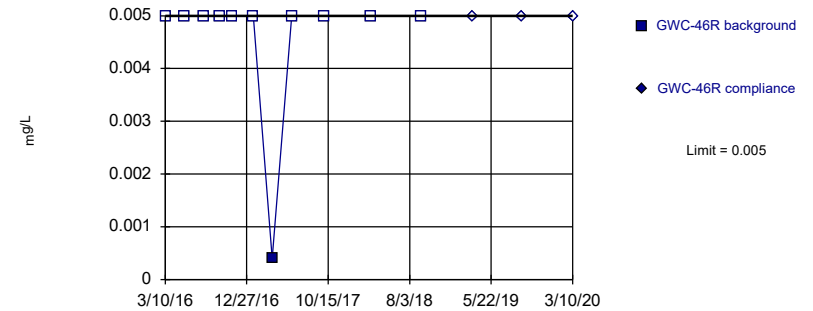


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.005	
5/13/2016	<0.005	
7/21/2016	0.0012 (J)	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	0.0008 (J)	
6/6/2017	<0.005 (*)	
9/25/2017	0.001 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/10/2019		<0.005
3/9/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.005	
5/13/2016	<0.005	
7/19/2016	<0.005	
9/16/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	0.0005 (J)	
6/6/2017	<0.005 (*)	
9/22/2017	<0.005	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		<0.005
3/9/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	<0.005	
5/16/2016	<0.005	
7/25/2016	<0.005	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/20/2017	<0.005	
3/29/2017	<0.005	
6/7/2017	<0.005 (*)	
9/27/2017	0.0006 (J)	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		<0.005

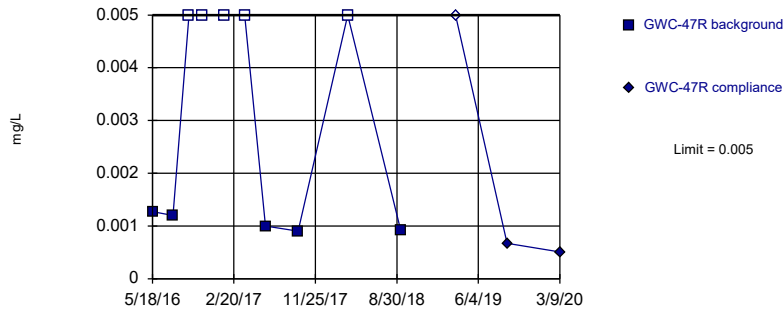
Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.005	
5/17/2016	<0.005	
7/26/2016	<0.005	
9/20/2016	<0.005	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/28/2017	0.0004 (J)	
6/7/2017	<0.005 (*)	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/18/2019		<0.005
9/11/2019		<0.005
3/10/2020		<0.005

Within Limit

Prediction Limit
 Intrawell Non-parametric

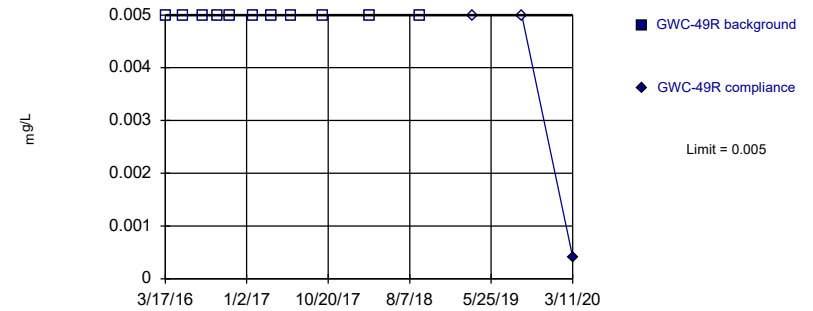


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

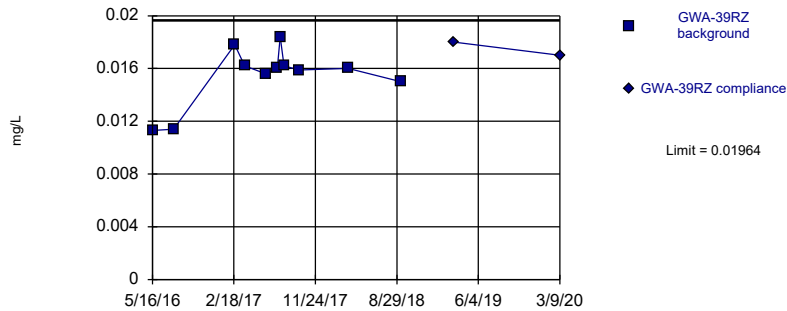


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

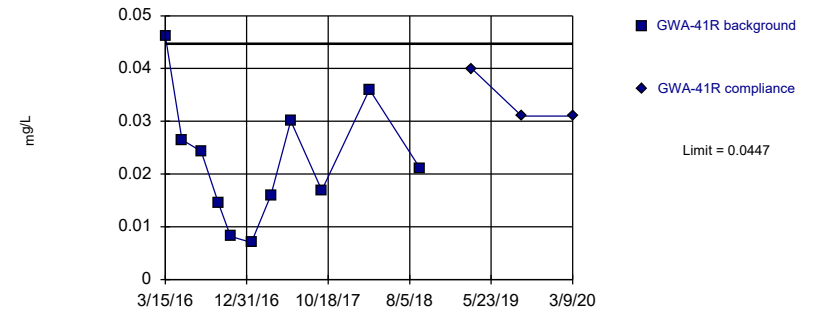


Background Data Summary: Mean=0.01544, Std. Dev.=0.002236, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8351, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.02243, Std. Dev.=0.01186, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	0.0551 (o)	
5/18/2016	0.00127 (J)	
7/27/2016	0.0012 (J)	
9/20/2016	<0.005	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/29/2017	<0.005	
6/8/2017	0.001 (J)	
9/27/2017	0.0009 (J)	
3/16/2018	<0.005	
9/13/2018	0.00091 (J)	
3/19/2019		<0.005
9/11/2019		0.00067 (J)
3/9/2020		0.00051 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.005	
5/18/2016	<0.005	
7/27/2016	<0.005	
9/21/2016	<0.005	
11/4/2016	<0.005	
1/24/2017	<0.005	
3/29/2017	<0.005	
6/8/2017	<0.005	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/18/2019		<0.005
9/11/2019		<0.005
3/11/2020		0.00041 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

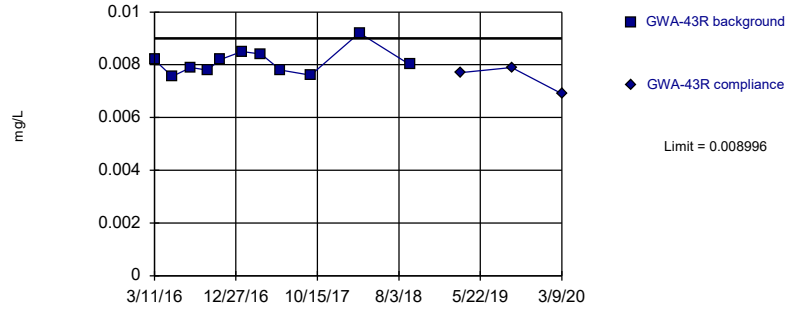
	GWA-39RZ	GWA-39RZ
5/16/2016	0.0113 (D)	
7/27/2016	0.0114 (D)	
2/21/2017	0.0178	
3/27/2017	0.0162 (D)	
6/8/2017	0.0156 (D)	
7/17/2017	0.016 (D)	
7/27/2017	0.0184	
8/9/2017	0.0162	
9/29/2017	0.0159 (D)	
3/16/2018	0.016	
9/14/2018	0.015	
3/14/2019		0.018
3/9/2020		0.017

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	0.0462	
5/13/2016	0.0265	
7/21/2016	0.0243	
9/21/2016	0.0145	
11/3/2016	0.0082 (J)	
1/17/2017	0.007 (J)	
3/27/2017	0.016	
6/6/2017	0.0301	
9/25/2017	0.0169	
3/14/2018	0.036	
9/12/2018	0.021	
3/14/2019		0.04
9/10/2019		0.031
3/9/2020		0.031

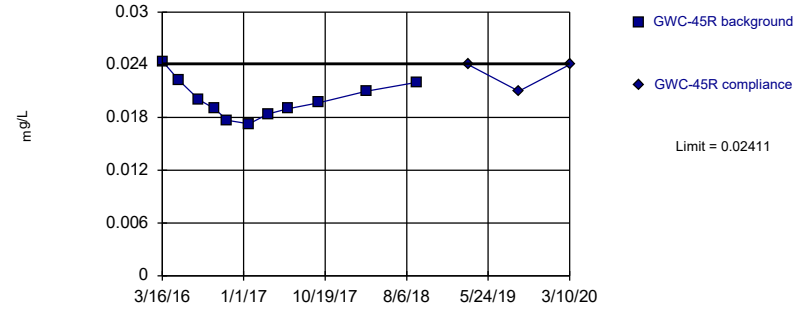
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.008105, Std. Dev.=0.0004743, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9088, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

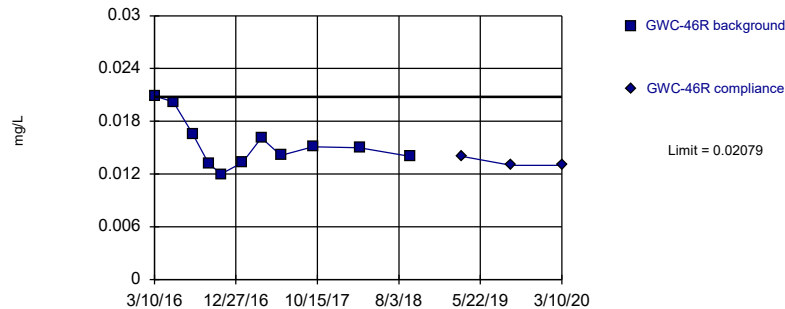
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02006, Std. Dev.=0.002154, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

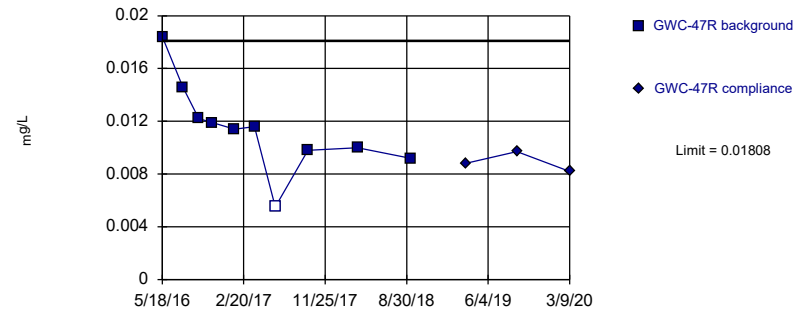
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01549, Std. Dev.=0.002822, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8859, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01146, Std. Dev.=0.003404, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	0.00819 (J)	
5/13/2016	0.00756 (J)	
7/19/2016	0.0079 (J)	
9/16/2016	0.0078 (J)	
11/2/2016	0.0082 (J)	
1/18/2017	0.0085 (J)	
3/28/2017	0.0084 (J)	
6/6/2017	0.0078 (J)	
9/22/2017	0.0076 (J)	
3/15/2018	0.0092 (J)	
9/12/2018	0.008 (J)	
3/13/2019		0.0077 (J)
9/11/2019		0.0079 (J)
3/9/2020		0.0069 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	0.0244	
5/16/2016	0.0222	
7/25/2016	0.02	
9/19/2016	0.019	
11/3/2016	0.0177	
1/20/2017	0.0173	
3/29/2017	0.0184	
6/7/2017	0.019	
9/27/2017	0.0197	
3/15/2018	0.021	
9/13/2018	0.022	
3/14/2019		0.024
9/11/2019		0.021
3/10/2020		0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	0.0209	
5/17/2016	0.0202	
7/26/2016	0.0165	
9/20/2016	0.0132	
11/4/2016	0.012	
1/20/2017	0.0133	
3/28/2017	0.0161	
6/7/2017	0.0141	
9/29/2017	0.0151	
3/15/2018	0.015	
9/13/2018	0.014	
3/18/2019		0.014
9/11/2019		0.013
3/10/2020		0.013

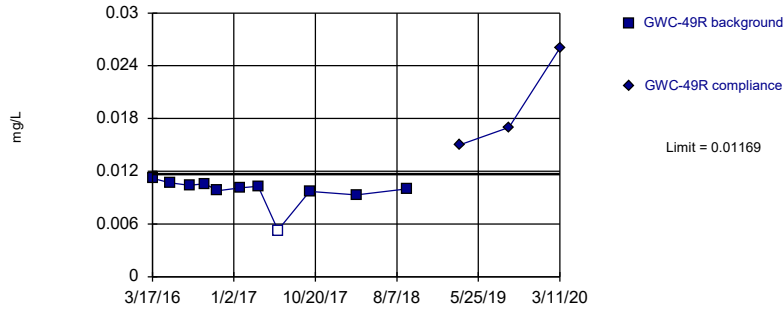
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	0.0344 (o)	
5/18/2016	0.0184	
7/27/2016	0.0146	
9/20/2016	0.0122	
11/4/2016	0.0119	
1/20/2017	0.0114	
3/29/2017	0.0116	
6/8/2017	<0.011 (*)	
9/27/2017	0.0098 (J)	
3/16/2018	0.01	
9/13/2018	0.0092 (J)	
3/19/2019		0.0088 (J)
9/11/2019		0.0097 (J)
3/9/2020		0.0082 (J)

Exceeds Limit

Prediction Limit
 Intrawell Parametric

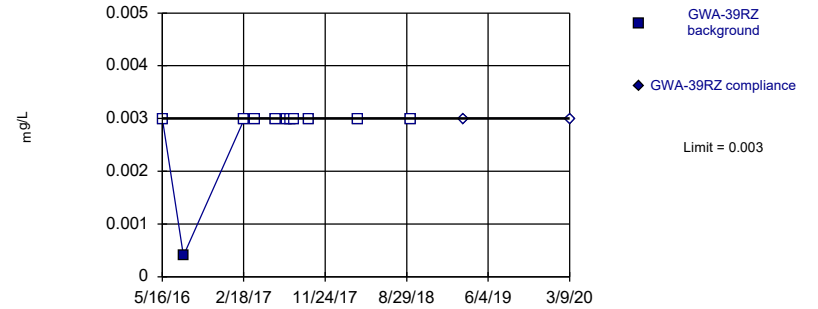


Background Data Summary (based on cube transformation): Mean=9.9e-7, Std. Dev.=3.2e-7, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8401, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

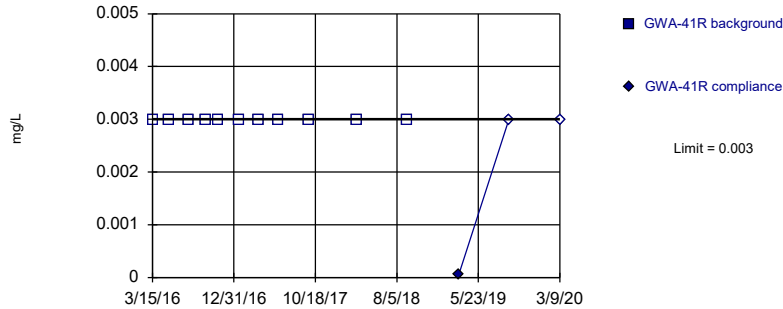


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

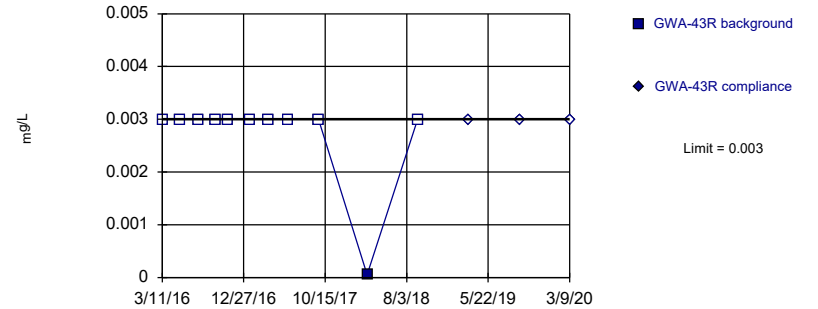


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	0.0112	
5/18/2016	0.0107	
7/27/2016	0.0104	
9/21/2016	0.0106	
11/4/2016	0.0098 (J)	
1/24/2017	0.0101	
3/29/2017	0.0103	
6/8/2017	<0.0106 (*)	
9/29/2017	0.0097 (J)	
3/15/2018	0.0093 (J)	
9/13/2018	0.01	
3/18/2019		0.015
9/11/2019		0.017
3/11/2020		0.026

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.003 (D)	
7/27/2016	0.0004 (JD)	
2/21/2017	<0.003	
3/27/2017	<0.003 (D)	
6/8/2017	<0.003 (D)	
7/17/2017	<0.003 (D)	
7/27/2017	<0.003	
8/9/2017	<0.003	
9/29/2017	<0.003 (D)	
3/16/2018	<0.003	
9/14/2018	<0.003	
3/14/2019		<0.003
3/9/2020		<0.003

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.003	
5/13/2016	<0.003	
7/21/2016	<0.003	
9/21/2016	<0.003	
11/3/2016	<0.003	
1/17/2017	<0.003	
3/27/2017	<0.003	
6/6/2017	<0.003	
9/25/2017	<0.003	
3/14/2018	<0.003	
9/12/2018	<0.003	
3/14/2019		5.2E-05 (J)
9/10/2019		<0.003
3/9/2020		<0.003

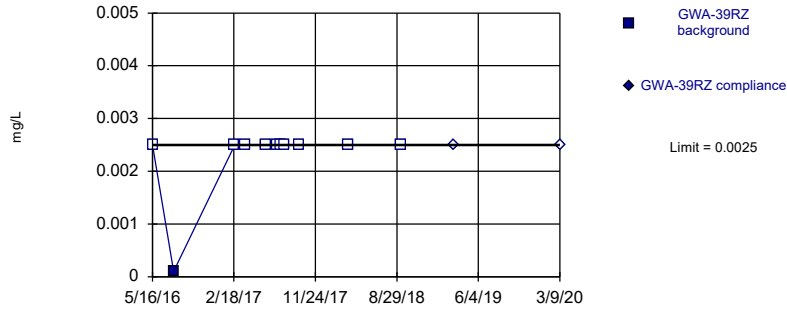
Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.003	
5/13/2016	<0.003	
7/19/2016	<0.003	
9/16/2016	<0.003	
11/2/2016	<0.003	
1/18/2017	<0.003	
3/28/2017	<0.003	
6/6/2017	<0.003	
9/22/2017	<0.003	
3/15/2018	5.1E-05 (J)	
9/12/2018	<0.003	
3/13/2019		<0.003
9/11/2019		<0.003
3/9/2020		<0.003

Within Limit

Prediction Limit
Intrawell Non-parametric

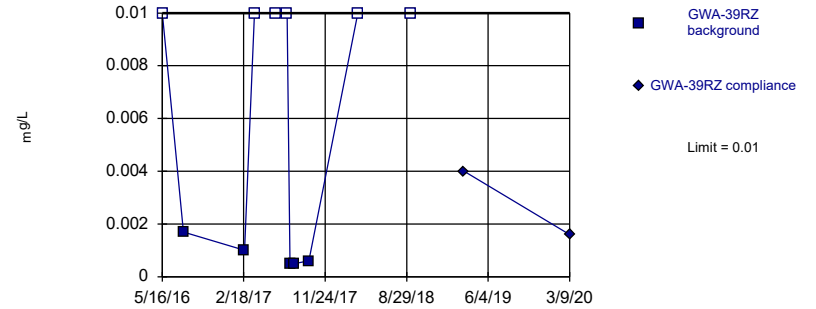


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

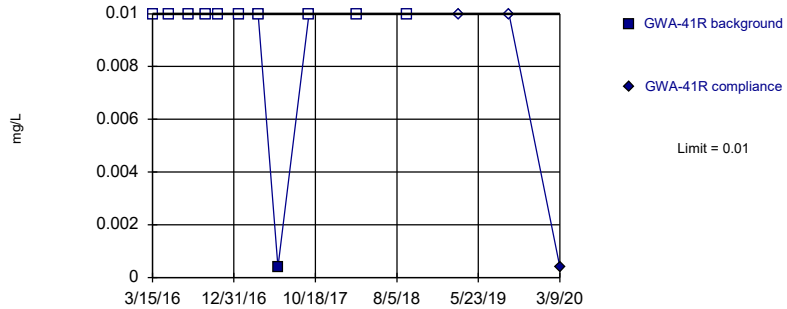


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

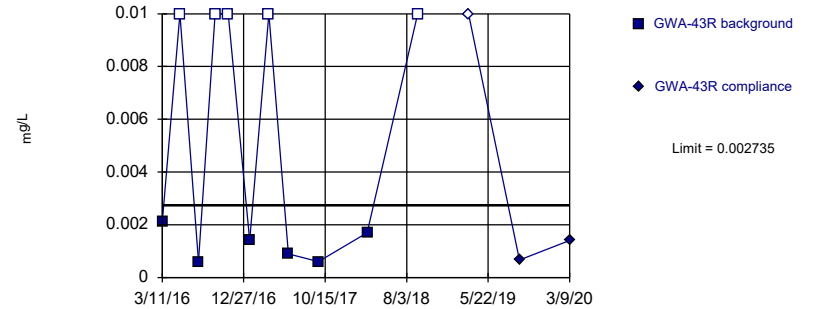


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.826, Std. Dev.=0.492, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8019, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0025 (D)	
7/27/2016	0.0001 (JD)	
2/21/2017	<0.0025	
3/27/2017	<0.0025 (D)	
6/8/2017	<0.0025 (D)	
7/17/2017	<0.0025 (D)	
7/27/2017	<0.0025	
8/9/2017	<0.0025	
9/29/2017	<0.0025 (D)	
3/16/2018	<0.0025	
9/14/2018	<0.0025	
3/14/2019		<0.0025
3/9/2020		<0.0025

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.01 (D)	
7/27/2016	0.0017 (JD)	
2/21/2017	0.001 (J)	
3/27/2017	<0.01 (D)	
6/8/2017	<0.01 (D)	
7/17/2017	<0.01 (D)	
7/27/2017	0.0005 (J)	
8/9/2017	0.0005 (J)	
9/29/2017	0.0006 (JD)	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		0.004 (J)
3/9/2020		0.0016 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.01	
5/13/2016	<0.01	
7/21/2016	<0.01	
9/21/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/27/2017	<0.01	
6/6/2017	0.0004 (J)	
9/25/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/10/2019		<0.01
3/9/2020		0.0004 (J)

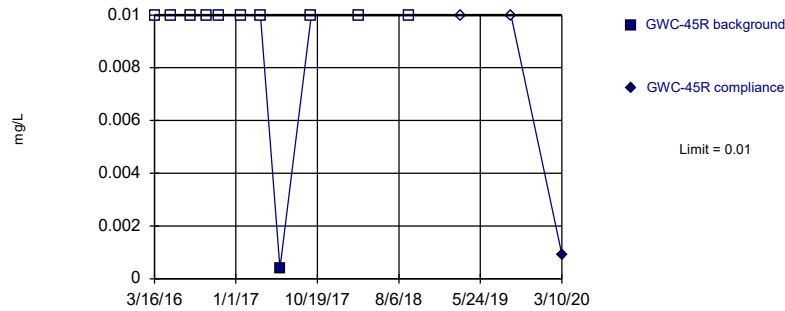
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	0.00212 (J)	
5/13/2016	<0.01	
7/19/2016	0.0006 (J)	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	0.0014 (J)	
3/28/2017	<0.01 (*)	
6/6/2017	0.0009 (J)	
9/22/2017	0.0006 (J)	
3/15/2018	0.0017 (J)	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		0.00066 (J)
3/9/2020		0.0014 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

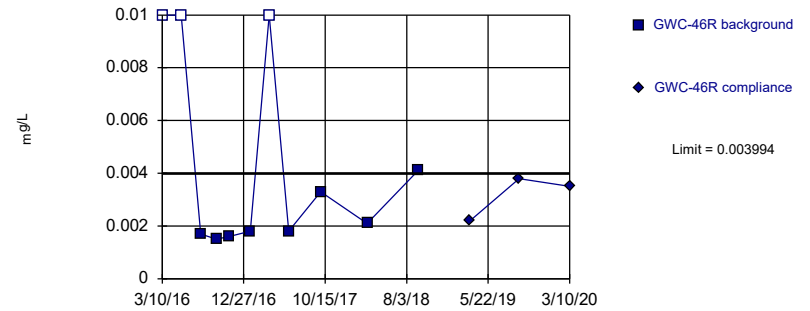


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

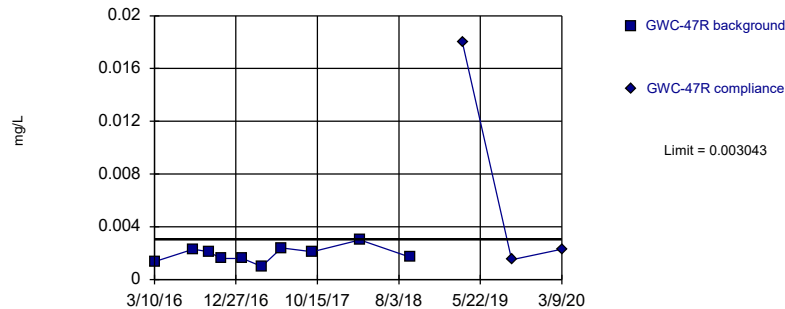


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.182, Std. Dev.=0.3505, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7957, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

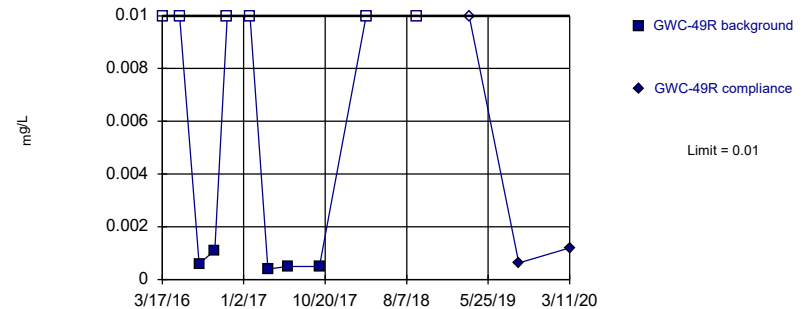


Background Data Summary: Mean=0.001916, Std. Dev.=0.0005792, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9766, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	<0.01	
9/19/2016	<0.01	
11/3/2016	<0.01	
1/20/2017	<0.01	
3/29/2017	<0.01	
6/7/2017	0.0004 (J)	
9/27/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/14/2019		<0.01
9/11/2019		<0.01
3/10/2020		0.00092 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.01	
5/17/2016	<0.01	
7/26/2016	0.0017 (J)	
9/20/2016	0.0015 (J)	
11/4/2016	0.0016 (J)	
1/20/2017	0.0018 (J)	
3/28/2017	<0.01 (*)	
6/7/2017	0.0018 (J)	
9/29/2017	0.0033 (J)	
3/15/2018	0.0021 (J)	
9/13/2018	0.0041 (J)	
3/18/2019		0.0022 (J)
9/11/2019		0.0038 (J)
3/10/2020		0.0035 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	0.00136 (J)	
5/18/2016	0.00606 (Jo)	
7/27/2016	0.0023 (J)	
9/20/2016	0.0021 (J)	
11/4/2016	0.0016 (J)	
1/20/2017	0.0016 (J)	
3/29/2017	0.001 (J)	
6/8/2017	0.0024 (J)	
9/27/2017	0.0021 (J)	
3/16/2018	0.003 (J)	
9/13/2018	0.0017 (J)	
3/19/2019		0.018
9/11/2019		0.0015 (J)
3/9/2020		0.0023 (J)

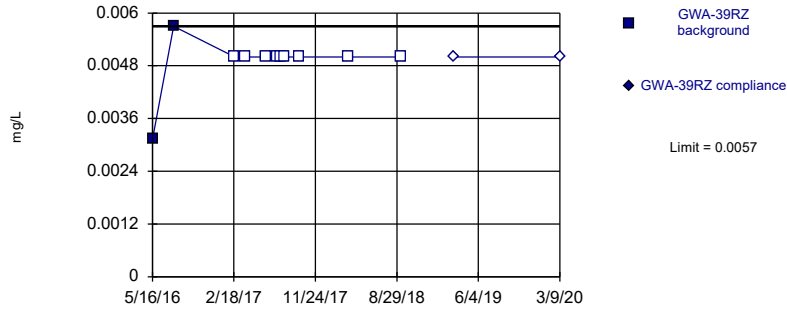
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	0.0006 (J)	
9/21/2016	0.0011 (J)	
11/4/2016	<0.01	
1/24/2017	<0.01	
3/29/2017	0.0004 (J)	
6/8/2017	0.0005 (J)	
9/29/2017	0.0005 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		0.00063 (J)
3/11/2020		0.0012 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

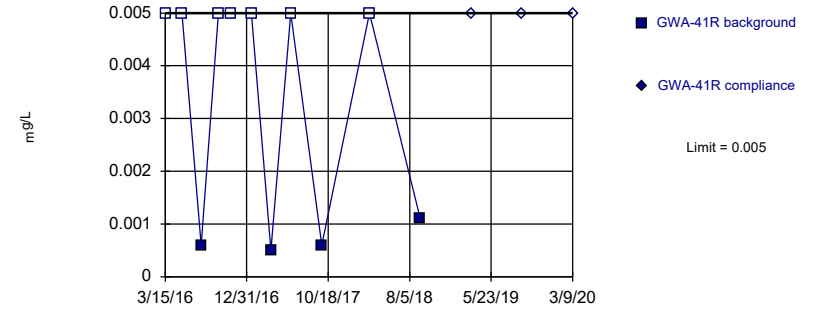


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

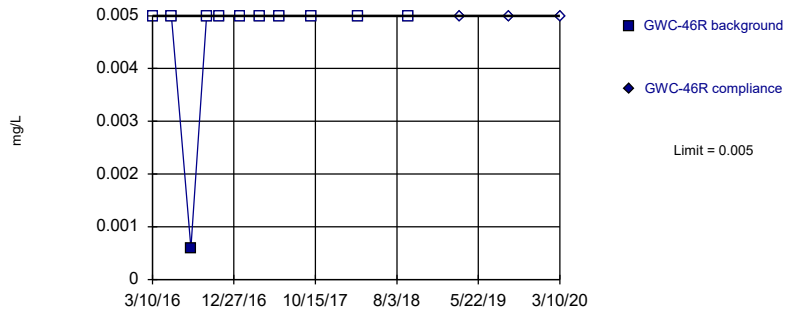


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

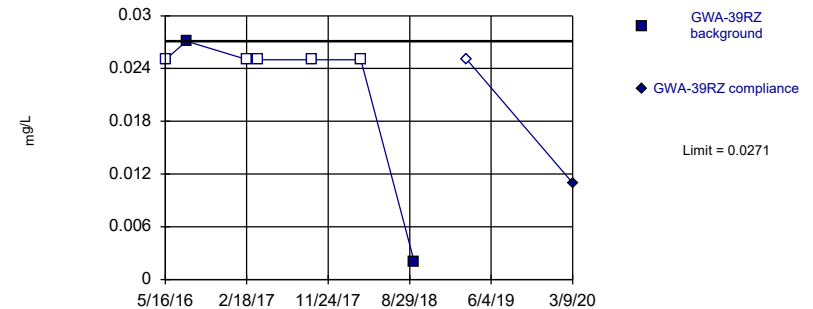


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	0.00313 (JD)	
7/27/2016	0.0057 (JD)	
2/21/2017	<0.005	
3/27/2017	<0.005 (D)	
6/8/2017	<0.005 (D)	
7/17/2017	<0.005 (D)	
7/27/2017	<0.005	
8/9/2017	<0.005	
9/29/2017	<0.005 (D)	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/14/2019		<0.005
3/9/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.005	
5/13/2016	<0.005	
7/21/2016	0.0006 (J)	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	0.0005 (J)	
6/6/2017	<0.005	
9/25/2017	0.0006 (J)	
3/14/2018	<0.005	
9/12/2018	0.0011 (J)	
3/14/2019		<0.005
9/10/2019		<0.005
3/9/2020		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.005	
5/17/2016	<0.005	
7/26/2016	0.0006 (J)	
9/20/2016	<0.005	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/28/2017	<0.005	
6/7/2017	<0.005	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/18/2019		<0.005
9/11/2019		<0.005
3/10/2020		<0.005

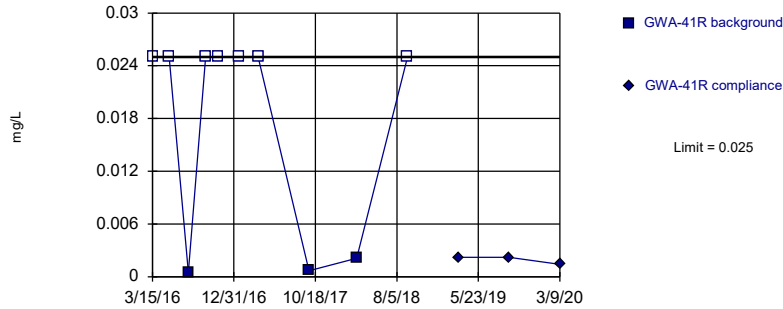
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.025 (D)	
7/27/2016	0.0271 (D)	
2/21/2017	<0.025	
3/27/2017	<0.025 (D)	
9/29/2017	<0.025 (D)	
3/16/2018	<0.025	
9/14/2018	0.002 (J)	
3/14/2019		<0.025
3/9/2020		0.011 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

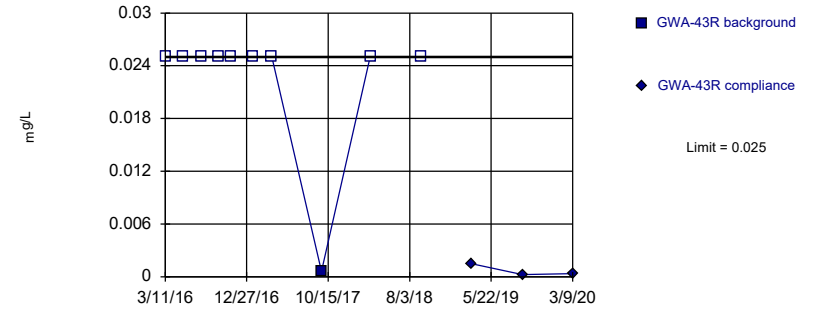


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

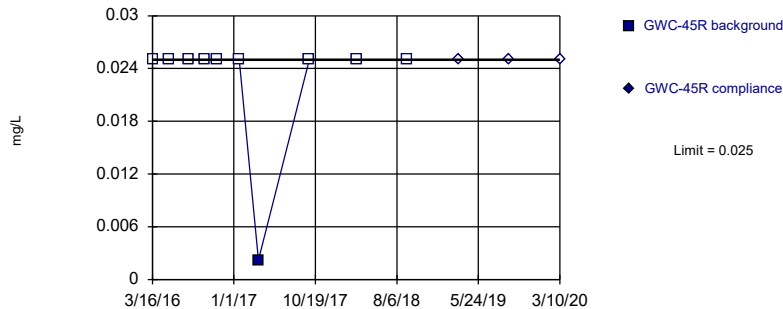


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

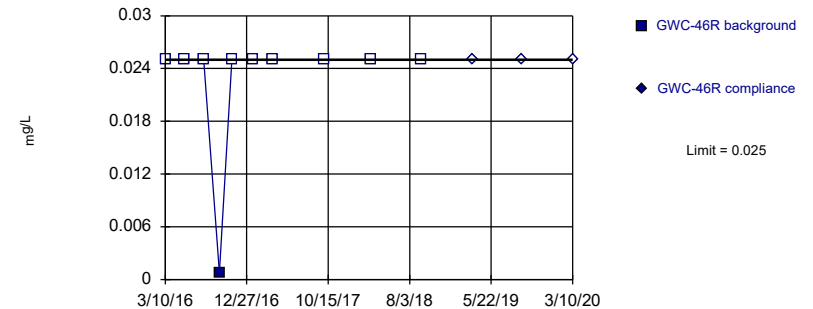


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.025	
5/13/2016	<0.025	
7/21/2016	0.0005 (J)	
9/21/2016	<0.025	
11/3/2016	<0.025	
1/17/2017	<0.025	
3/27/2017	<0.025	
9/25/2017	0.0007 (J)	
3/14/2018	0.0021 (J)	
9/12/2018	<0.025	
3/14/2019		0.0022 (J)
9/10/2019		0.0022 (J)
3/9/2020		0.0014 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.025	
5/13/2016	<0.025	
7/19/2016	<0.025	
9/16/2016	<0.025	
11/2/2016	<0.025	
1/18/2017	<0.025	
3/28/2017	<0.025 (*)	
9/22/2017	0.0006 (J)	
3/15/2018	<0.025	
9/12/2018	<0.025	
3/13/2019		0.0015 (J)
9/11/2019		0.00026 (J)
3/9/2020		0.00035 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	<0.025	
5/16/2016	<0.025	
7/25/2016	<0.025	
9/19/2016	<0.025	
11/3/2016	<0.025	
1/20/2017	<0.025	
3/29/2017	0.0022 (J)	
9/27/2017	<0.025	
3/15/2018	<0.025	
9/13/2018	<0.025	
3/14/2019		<0.025
9/11/2019		<0.025
3/10/2020		<0.025

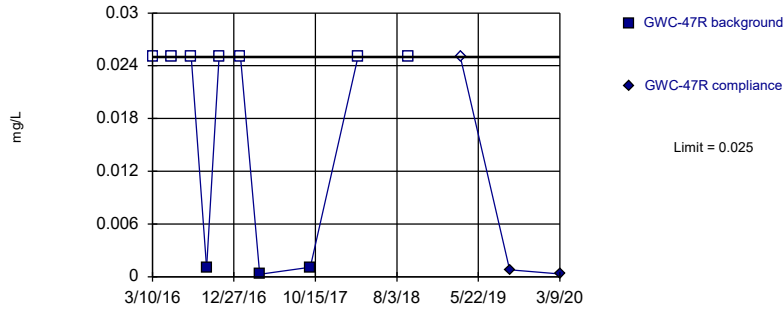
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.025	
5/17/2016	<0.025	
7/26/2016	<0.025	
9/20/2016	0.0008 (J)	
11/4/2016	<0.025	
1/20/2017	<0.025	
3/28/2017	<0.025	
9/29/2017	<0.025	
3/15/2018	<0.025	
9/13/2018	<0.025	
3/18/2019		<0.025
9/11/2019		<0.025
3/10/2020		<0.025

Within Limit

Prediction Limit
Intrawell Non-parametric

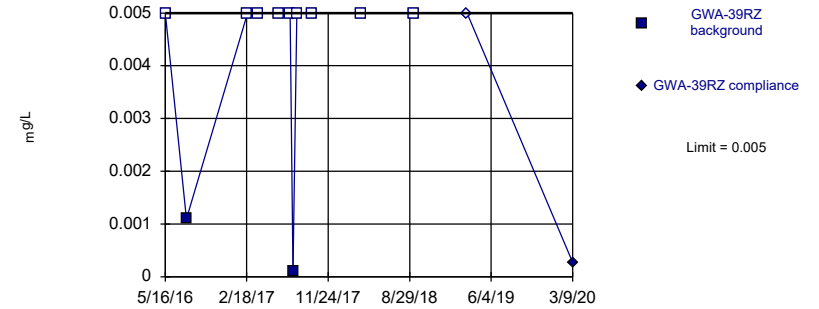


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

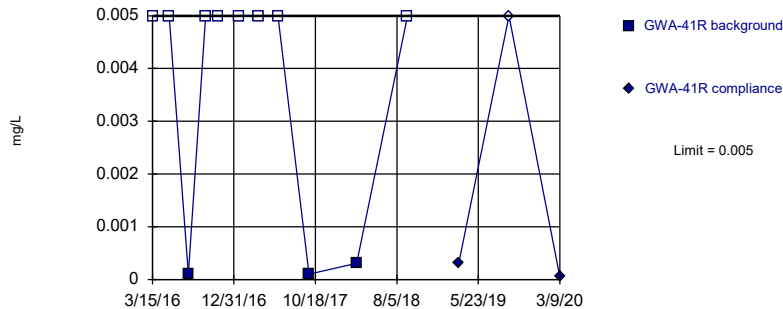


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

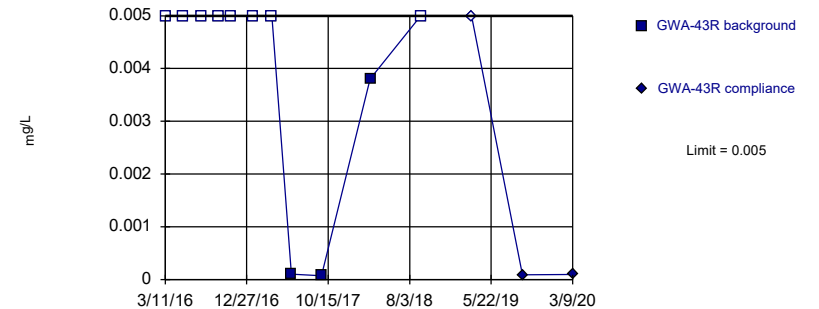


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.025	
5/18/2016	<0.025	
7/27/2016	<0.025	
9/20/2016	0.001 (J)	
11/4/2016	<0.025	
1/20/2017	<0.025	
3/29/2017	0.0003 (J)	
9/27/2017	0.0011 (J)	
3/16/2018	<0.025	
9/13/2018	<0.025	
3/19/2019		<0.025
9/11/2019		0.0008 (J)
3/9/2020		0.00032 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.005 (D)	
7/27/2016	0.0011 (JD)	
2/21/2017	<0.005	
3/27/2017	<0.005 (D)	
6/8/2017	<0.005 (D)	
7/17/2017	<0.005 (D)	
7/27/2017	0.0001 (J)	
8/9/2017	<0.005	
9/29/2017	<0.005 (D)	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/14/2019		<0.005
3/9/2020		0.00027 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.005	
5/13/2016	<0.005	
7/21/2016	0.0001 (J)	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<0.005	
6/6/2017	<0.005	
9/25/2017	0.0001 (J)	
3/14/2018	0.00031 (J)	
9/12/2018	<0.005	
3/14/2019		0.00031 (J)
9/10/2019		<0.005
3/9/2020		4.9E-05 (J)

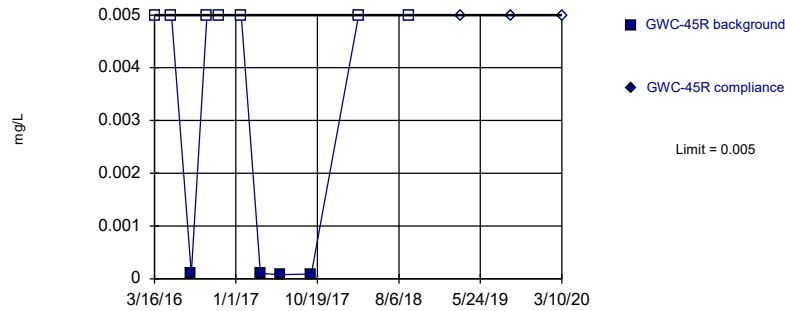
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.005	
5/13/2016	<0.005	
7/19/2016	<0.005	
9/16/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	<0.005	
6/6/2017	0.0001 (J)	
9/22/2017	7E-05 (J)	
3/15/2018	0.0038 (J)	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		9.2E-05 (J)
3/9/2020		9.6E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

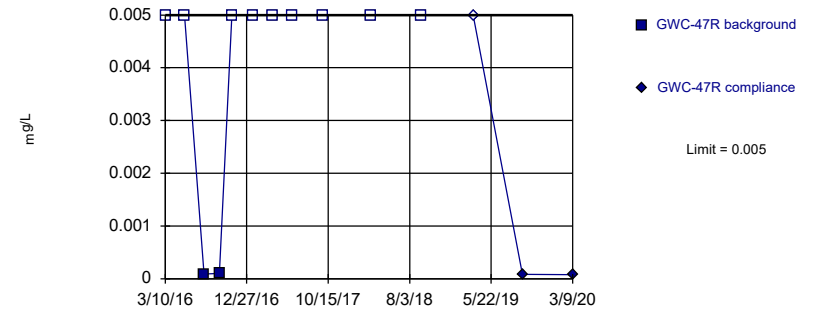


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

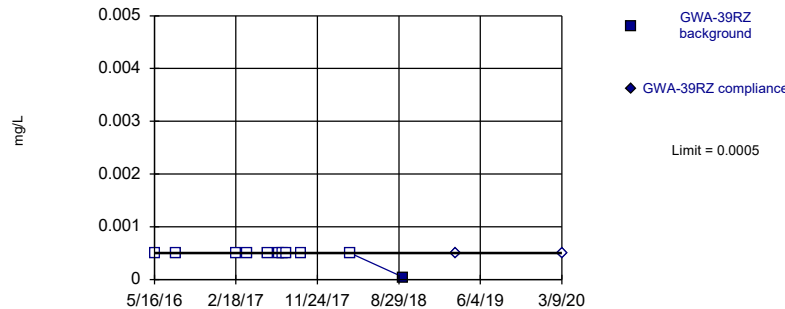


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

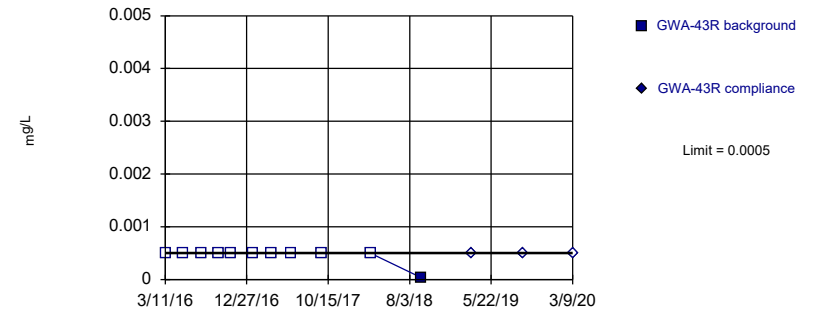


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	<0.005	
5/16/2016	<0.005	
7/25/2016	0.0001 (J)	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/20/2017	<0.005	
3/29/2017	0.0001 (J)	
6/7/2017	8E-05 (J)	
9/27/2017	9E-05 (J)	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.005	
5/18/2016	<0.005	
7/27/2016	9E-05 (J)	
9/20/2016	0.0001 (J)	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/29/2017	<0.005	
6/8/2017	<0.005	
9/27/2017	<0.005	
3/16/2018	<0.005	
9/13/2018	<0.005	
3/19/2019		<0.005
9/11/2019		8.5E-05 (J)
3/9/2020		8E-05 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0005 (D)	
7/27/2016	<0.0005 (D)	
2/21/2017	<0.0005	
3/27/2017	<0.0005 (D)	
6/8/2017	<0.0005 (D)	
7/17/2017	<0.0005 (D)	
7/27/2017	<0.0005	
8/9/2017	<0.0005	
9/29/2017	<0.0005 (D)	
3/16/2018	<0.0005	
9/14/2018	4.1E-05 (J)	
3/14/2019		<0.0005
3/9/2020		<0.0005

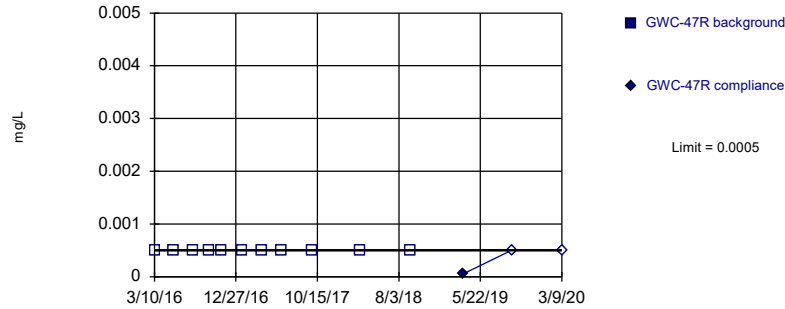
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.0005	
5/13/2016	<0.0005	
7/19/2016	<0.0005	
9/16/2016	<0.0005	
11/2/2016	<0.0005	
1/18/2017	<0.0005	
3/28/2017	<0.0005	
6/6/2017	<0.0005	
9/22/2017	<0.0005	
3/15/2018	<0.0005	
9/12/2018	3.9E-05 (J)	
3/13/2019		<0.0005
9/11/2019		<0.0005
3/9/2020		<0.0005

Within Limit

Prediction Limit
Intrawell Non-parametric

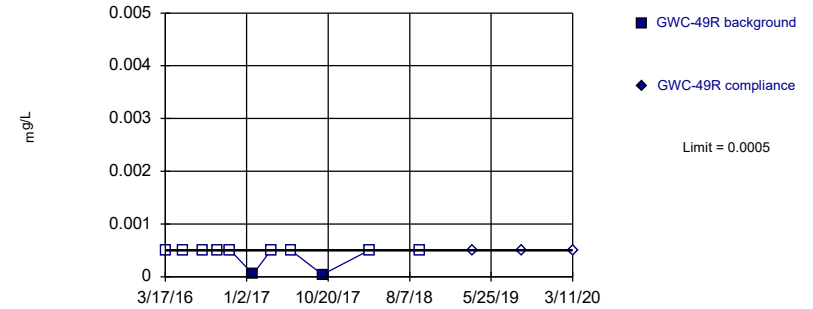


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 6:58 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

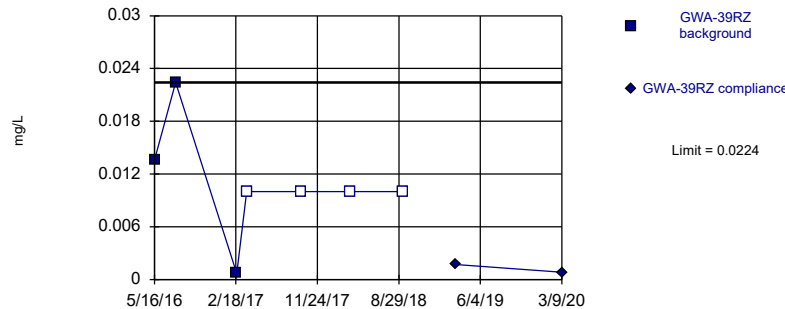


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

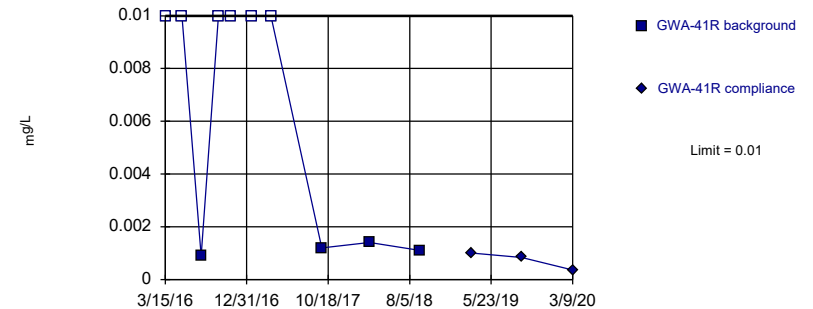


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.0005	
5/18/2016	<0.0005	
7/27/2016	<0.0005	
9/20/2016	<0.0005	
11/4/2016	<0.0005	
1/20/2017	<0.0005	
3/29/2017	<0.0005 (*)	
6/8/2017	<0.0005	
9/27/2017	<0.0005	
3/16/2018	<0.0005	
9/13/2018	<0.0005	
3/19/2019		5E-05 (J)
9/11/2019		<0.0005
3/9/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.0005	
5/18/2016	<0.0005	
7/27/2016	<0.0005	
9/21/2016	<0.0005	
11/4/2016	<0.0005	
1/24/2017	5E-05 (J)	
3/29/2017	<0.0005 (*)	
6/8/2017	<0.0005	
9/29/2017	4E-05 (J)	
3/15/2018	<0.0005	
9/13/2018	<0.0005	
3/18/2019		<0.0005
9/11/2019		<0.0005
3/11/2020		<0.0005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	0.0136 (D)	
7/27/2016	0.0224 (D)	
2/21/2017	0.0007 (J)	
3/27/2017	<0.01 (D)	
9/29/2017	<0.01 (D)	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		0.0017 (J)
3/9/2020		0.00083 (J)

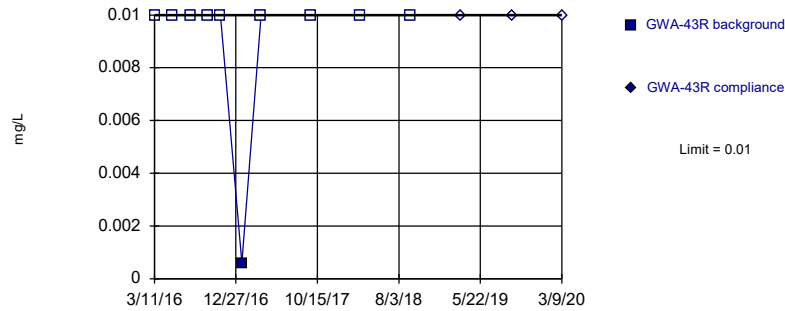
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.01	
5/13/2016	<0.01	
7/21/2016	0.0009 (J)	
9/21/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/27/2017	<0.01 (*)	
9/25/2017	0.0012 (J)	
3/14/2018	0.0014 (J)	
9/12/2018	0.0011 (J)	
3/14/2019		0.001 (J)
9/10/2019		0.00084 (J)
3/9/2020		0.00036 (J)

Within Limit

Prediction Limit
 Intrawell Non-parametric

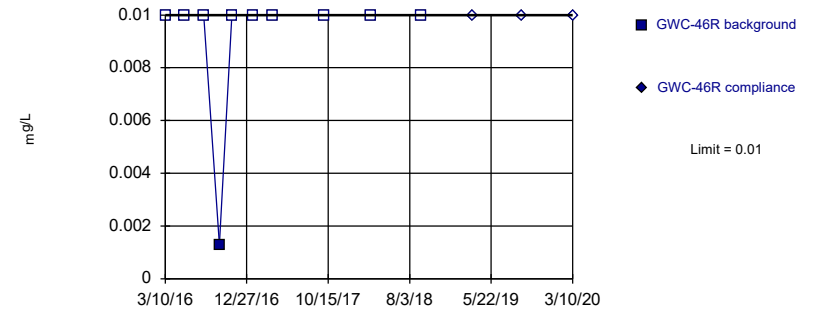


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

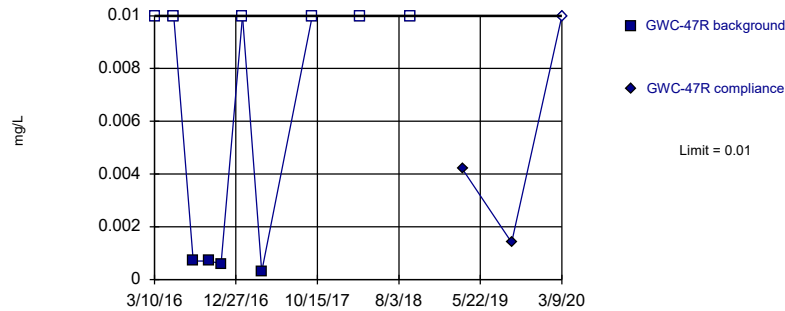


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

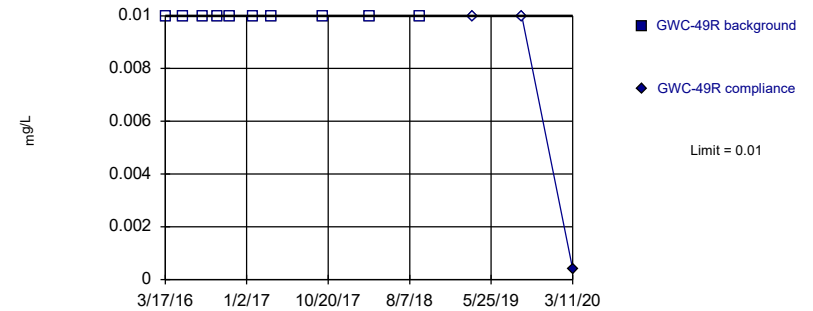


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.01	
5/13/2016	<0.01	
7/19/2016	<0.01	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	0.0006 (J)	
3/28/2017	<0.01 (*)	
9/22/2017	<0.01	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		<0.01
3/9/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.01	
5/17/2016	<0.01	
7/26/2016	<0.01	
9/20/2016	0.0013 (J)	
11/4/2016	<0.01	
1/20/2017	<0.01	
3/28/2017	<0.01	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		<0.01
3/10/2020		<0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	0.0007 (J)	
9/20/2016	0.0007 (J)	
11/4/2016	0.0006 (J)	
1/20/2017	<0.01	
3/29/2017	0.0003 (J)	
9/27/2017	<0.01	
3/16/2018	<0.01	
9/13/2018	<0.01	
3/19/2019		0.0042 (J)
9/11/2019		0.0014 (J)
3/9/2020		<0.01

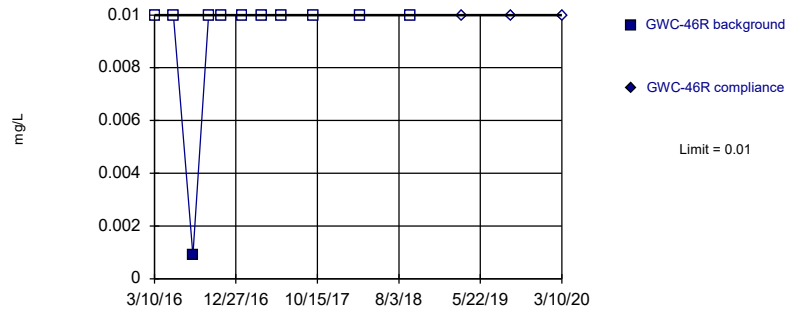
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	<0.01	
9/21/2016	<0.01	
11/4/2016	<0.01	
1/24/2017	<0.01	
3/29/2017	<0.01	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		<0.01
3/11/2020		0.0004 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

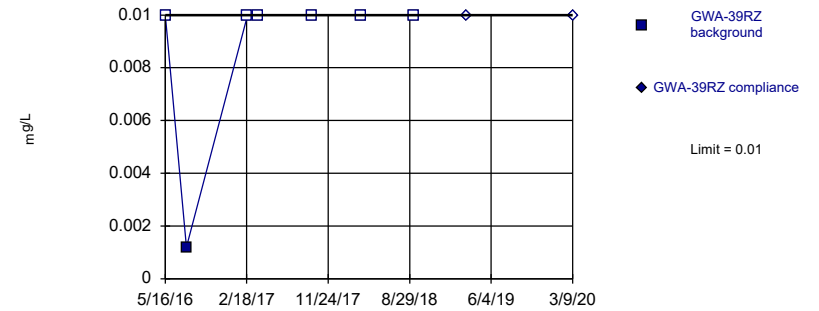


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

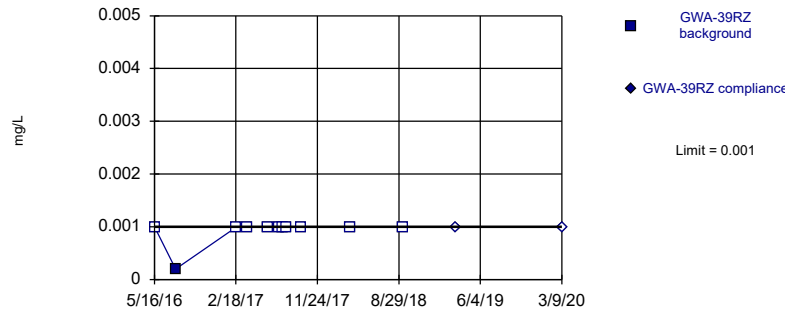


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Silver Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

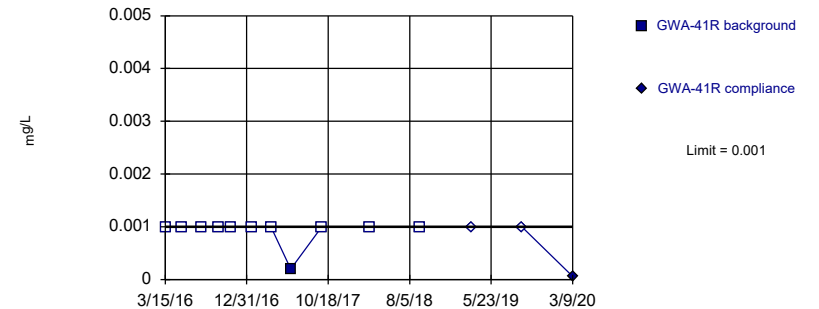


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.01	
5/17/2016	<0.01	
7/26/2016	0.0009 (J)	
9/20/2016	<0.01	
11/4/2016	<0.01	
1/20/2017	<0.01	
3/28/2017	<0.01	
6/7/2017	<0.01	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		<0.01
3/10/2020		<0.01

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.01 (D)	
7/27/2016	0.0012 (JD)	
2/21/2017	<0.01	
3/27/2017	<0.01 (D)	
9/29/2017	<0.01 (D)	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		<0.01
3/9/2020		<0.01

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.001 (D)	
7/27/2016	0.0002 (JD)	
2/21/2017	<0.001	
3/27/2017	<0.001 (D)	
6/8/2017	<0.001 (D)	
7/17/2017	<0.001 (D)	
7/27/2017	<0.001	
8/9/2017	<0.001	
9/29/2017	<0.001 (D)	
3/16/2018	<0.001	
9/14/2018	<0.001	
3/14/2019		<0.001
3/9/2020		<0.001

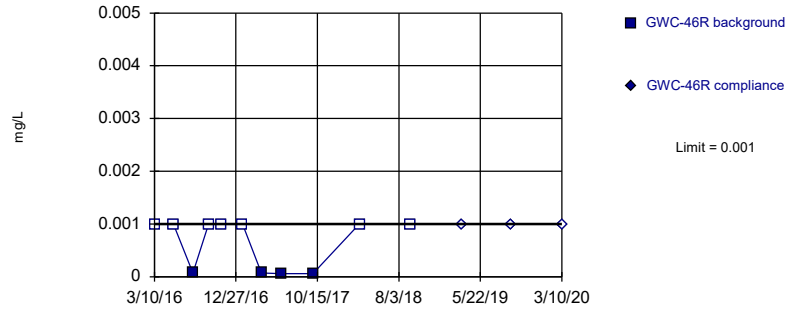
Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.001	
5/13/2016	<0.001	
7/21/2016	<0.001	
9/21/2016	<0.001	
11/3/2016	<0.001	
1/17/2017	<0.001	
3/27/2017	<0.001	
6/6/2017	0.0002 (J)	
9/25/2017	<0.001	
3/14/2018	<0.001	
9/12/2018	<0.001	
3/14/2019		<0.001
9/10/2019		<0.001
3/9/2020		6.1E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

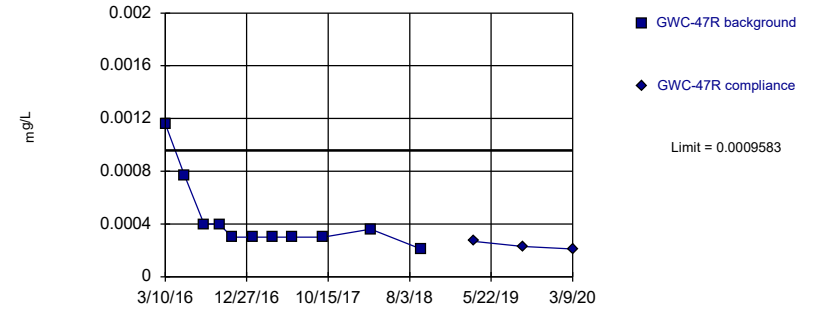


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

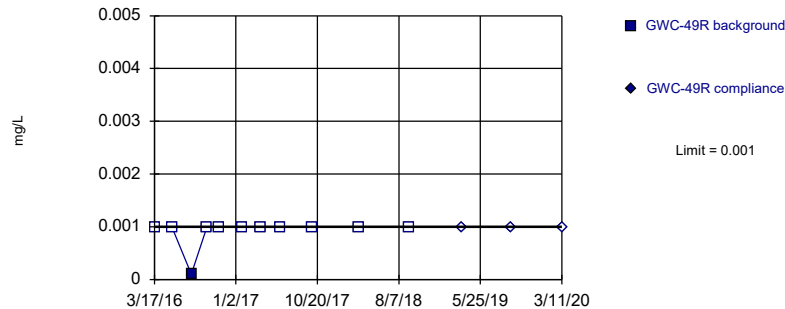


Background Data Summary (based on natural log transformation): Mean=-7.867, Std. Dev.=0.4878, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8094, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Thallium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

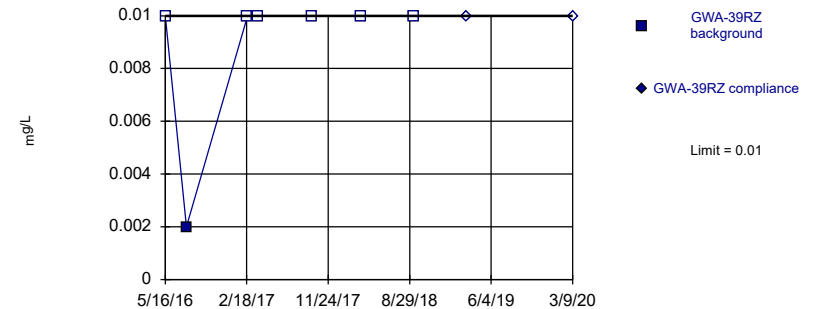


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Vanadium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	<0.001	
5/17/2016	<0.001	
7/26/2016	7E-05 (J)	
9/20/2016	<0.001	
11/4/2016	<0.001	
1/20/2017	<0.001	
3/28/2017	7E-05 (J)	
6/7/2017	6E-05 (J)	
9/29/2017	6E-05 (J)	
3/15/2018	<0.001	
9/13/2018	<0.001	
3/18/2019		<0.001
9/11/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	0.00116	
5/18/2016	0.000768 (J)	
7/27/2016	0.0004 (J)	
9/20/2016	0.0004 (J)	
11/4/2016	0.0003 (J)	
1/20/2017	0.0003 (J)	
3/29/2017	0.0003 (J)	
6/8/2017	0.0003 (J)	
9/27/2017	0.0003 (J)	
3/16/2018	0.00036 (J)	
9/13/2018	0.00021 (J)	
3/19/2019		0.00027 (J)
9/11/2019		0.00023 (J)
3/9/2020		0.00021 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.001	
5/18/2016	<0.001	
7/27/2016	0.0001 (J)	
9/21/2016	<0.001	
11/4/2016	<0.001	
1/24/2017	<0.001	
3/29/2017	<0.001	
6/8/2017	<0.001	
9/29/2017	<0.001	
3/15/2018	<0.001	
9/13/2018	<0.001	
3/18/2019		<0.001
9/11/2019		<0.001
3/11/2020		<0.001

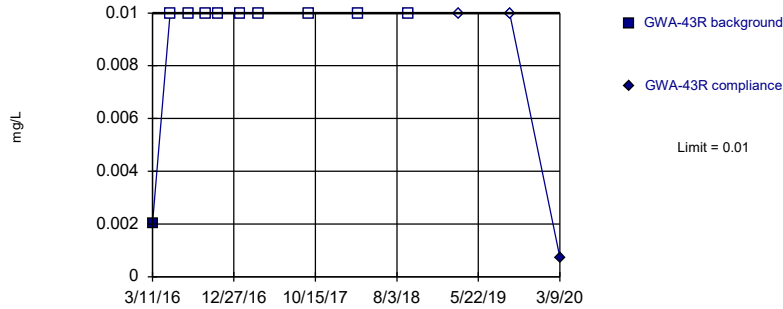
Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.01 (D)	
7/27/2016	0.002 (JD)	
2/21/2017	<0.01	
3/27/2017	<0.01 (D)	
9/29/2017	<0.01 (D)	
3/16/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		<0.01
3/9/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

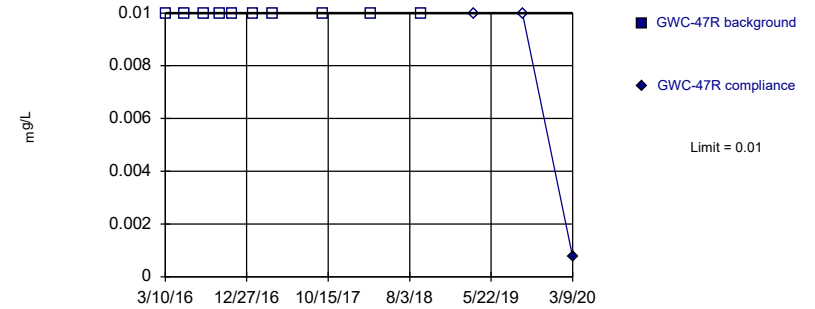


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

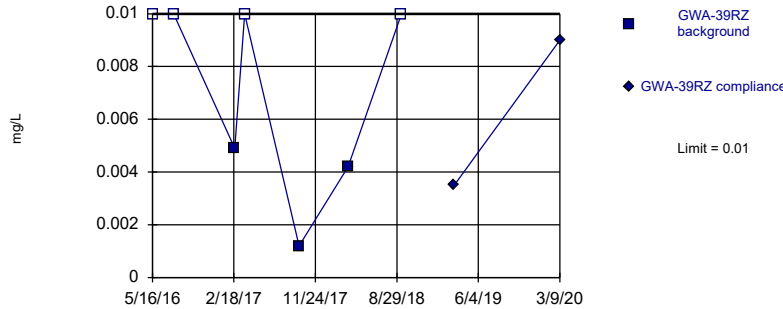


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

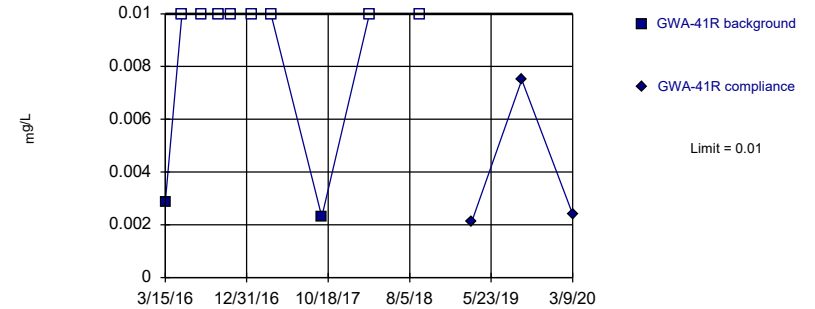


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	0.00202 (J)	
5/13/2016	<0.01	
7/19/2016	<0.01	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	<0.01	
3/28/2017	<0.01	
9/22/2017	<0.01	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		<0.01
3/9/2020		0.00074 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	<0.01	
9/20/2016	<0.01	
11/4/2016	<0.01	
1/20/2017	<0.01	
3/29/2017	<0.01	
9/27/2017	<0.01	
3/16/2018	<0.01	
9/13/2018	<0.01	
3/19/2019		<0.01
9/11/2019		<0.01
3/9/2020		0.00075 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.01 (D)	
7/27/2016	<0.01 (*)	
2/21/2017	0.0049 (J)	
3/27/2017	<0.01 (*)	
9/29/2017	0.0012 (JD)	
3/16/2018	0.0042 (J)	
9/14/2018	<0.01	
3/14/2019		0.0035 (J)
3/9/2020		0.009 (J)

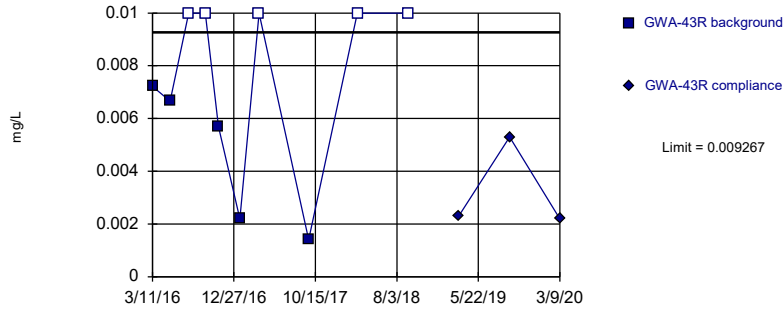
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	0.00286 (J)	
5/13/2016	<0.01	
7/21/2016	<0.01 (*)	
9/21/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/27/2017	<0.01 (*)	
9/25/2017	0.0023 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		0.0021 (J)
9/10/2019		0.0075 (J)
3/9/2020		0.0024 (J)

Within Limit

Prediction Limit
Intrawell Parametric

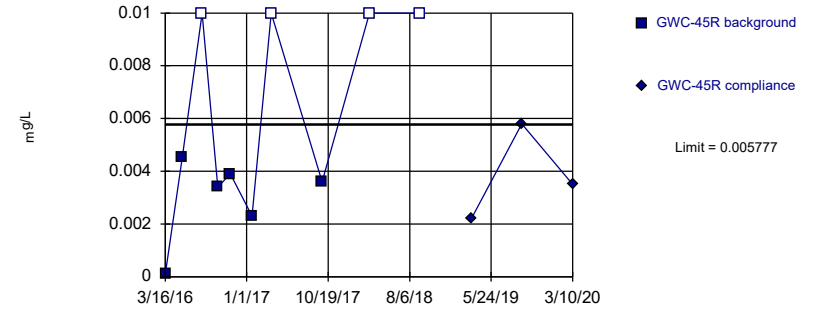


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004636, Std. Dev.=0.00238, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7978, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

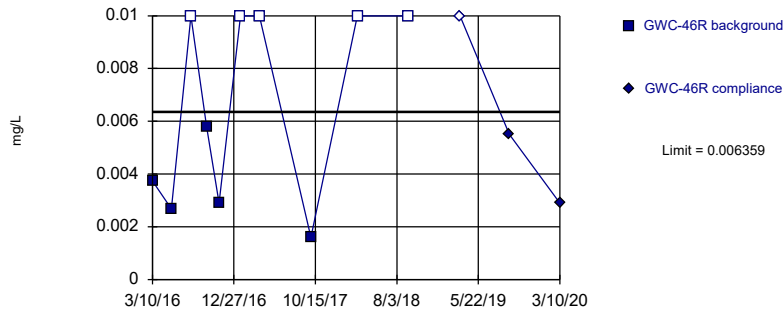


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002972, Std. Dev.=0.001441, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8303, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

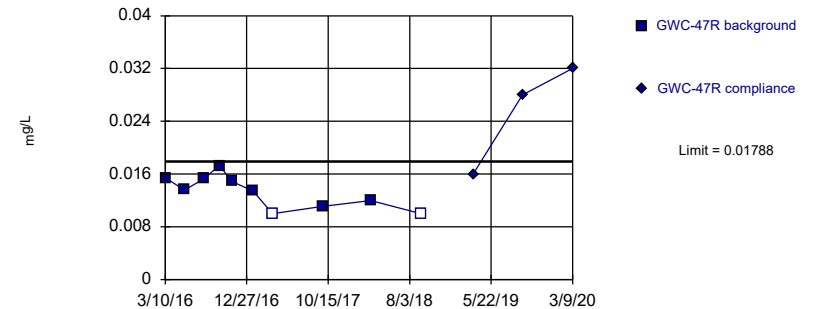


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05657, Std. Dev.=0.01191, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8007, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0133, Std. Dev.=0.002353, n=10, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9436, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	0.00722 (J)	
5/13/2016	0.00666 (J)	
7/19/2016	<0.01 (*)	
9/16/2016	<0.01	
11/2/2016	0.0057 (J)	
1/18/2017	0.0022 (J)	
3/28/2017	<0.01	
9/22/2017	0.0014 (J)	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		0.0023 (J)
9/11/2019		0.0053 (J)
3/9/2020		0.0022 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	0.000113 (J)	
5/16/2016	0.00452 (J)	
7/25/2016	<0.01 (*)	
9/19/2016	0.0034 (J)	
11/3/2016	0.0039 (J)	
1/20/2017	0.0023 (J)	
3/29/2017	<0.01 (*)	
9/27/2017	0.0036 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/14/2019		0.0022 (J)
9/11/2019		0.0058 (J)
3/10/2020		0.0035 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	0.00373 (J)	
5/17/2016	0.00268 (J)	
7/26/2016	<0.01 (*)	
9/20/2016	0.0058 (J)	
11/4/2016	0.0029 (J)	
1/20/2017	<0.01	
3/28/2017	<0.01 (*)	
9/29/2017	0.0016 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		0.0055 (J)
3/10/2020		0.0029 (J)

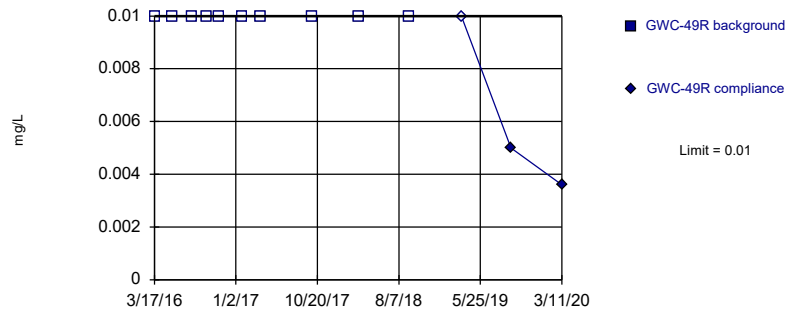
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	0.0154	
5/18/2016	0.0136	
7/27/2016	0.0153	
9/20/2016	0.0173	
11/4/2016	0.0149	
1/20/2017	0.0134	
3/29/2017	<0.01 (*)	
9/27/2017	0.0111	
3/16/2018	0.012	
9/13/2018	<0.01	
3/19/2019		0.016
9/11/2019		0.028
3/9/2020		0.032

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 = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 6:59 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:03 AM View: Bedrock PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	<0.01 (*)	
9/21/2016	<0.01	
11/4/2016	<0.01	
1/24/2017	<0.01	
3/29/2017	<0.01 (*)	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/18/2019		<0.01
9/11/2019		0.005 (J)
3/11/2020		0.0036 (J)

FIGURE E.

Intrawell Prediction Limits (State) - Overburden Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.069	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.015	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-39Z	0.01194	n/a	3/9/2020	0.04	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/9/2020	0.044	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3

Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/9/2020	0.0011	11	0.001342	0.0008802	27.27	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Antimony (mg/L)	GWA-40	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-42	0.003	n/a	3/6/2020	0.003ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-43	0.003	n/a	3/9/2020	0.00062	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-45	0.003	n/a	3/10/2020	0.00087	11	n/a	n/a	45.45	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Antimony (mg/L)	GWC-47	0.003	n/a	3/9/2020	0.00032	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-48	0.003	n/a	3/9/2020	0.003ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-49Z	0.003	n/a	3/9/2020	0.0018	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-39Z	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-40	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-44	0.005	n/a	3/10/2020	0.0013	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-47	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-39Z	0.0319	n/a	3/9/2020	0.0072	11	0.01385	0.009342	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-40	0.01224	n/a	3/9/2020	0.0088	10	0.009012	0.001613	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-41	0.03429	n/a	3/6/2020	0.022	11	0.02693	0.003812	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-42	0.00668	n/a	3/6/2020	0.0066	11	0.006255	0.0002197	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-43	0.04119	n/a	3/9/2020	0.012	11	0.02405	0.00887	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-44	0.0758	n/a	3/10/2020	0.059	10	0.0348	0.0205	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-45	0.006266	n/a	3/10/2020	0.0061	10	0.00579	0.0002378	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-47	0.01736	n/a	3/9/2020	0.0089	11	0.01361	0.001939	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/9/2020	0.029	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-49Z	0.01323	n/a	3/9/2020	0.0045	11	0.0068	0.00333	9.091	None	No	0.0007022	Param Intra 1 of 3
Beryllium (mg/L)	GWA-42	0.0002	n/a	3/6/2020	0.00017	9	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-44	0.003	n/a	3/10/2020	0.000074	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-48	0.003	n/a	3/9/2020	0.00028	11	n/a	n/a	27.27	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-39Z	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWA-42	0.001	n/a	3/6/2020	0.00014	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-43	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-44	0.0025	n/a	3/10/2020	0.0025ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-47	0.0025	n/a	3/9/2020	0.00015	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-48	0.0007304	n/a	3/9/2020	0.00016	10	-8.534	0.6559	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Cadmium (mg/L)	GWC-49Z	0.0025	n/a	3/9/2020	0.0025ND	11	n/a	n/a	36.36	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.069	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-40	0.01	n/a	3/9/2020	0.0009	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.015	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-42	0.01	n/a	3/6/2020	0.00045	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.0033	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.00074	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0007	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-47	0.007299	n/a	3/9/2020	0.0012	10	-6.134	0.6071	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWC-48	0.00362	n/a	3/9/2020	0.0023	11	0.03719	0.01189	45.45	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWC-49Z	0.017	n/a	3/9/2020	0.00096	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39Z	0.008788	n/a	3/9/2020	0.00075	11	0.04771	0.02382	9.091	None	sqrt(x)	0.0007022	Param Intra 1 of 3
Cobalt (mg/L)	GWA-42	0.0025	n/a	3/6/2020	0.00039	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-43	0.0025	n/a	3/9/2020	0.00039	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.0021	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0012	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.0016	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-49Z	0.006036	n/a	3/9/2020	0.0028	11	0.003487	0.001319	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Copper (mg/L)	GWA-39Z	0.025	n/a	3/9/2020	0.0007	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWA-40	0.025	n/a	3/9/2020	0.025ND	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41	0.025	n/a	3/6/2020	0.00093	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-42	0.025	n/a	3/6/2020	0.00019	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-44	0.025	n/a	3/10/2020	0.00067	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45	0.025	n/a	3/10/2020	0.00031	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Copper (mg/L)	GWC-47	0.025	n/a	3/9/2020	0.025ND	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-48	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-49Z	0.025	n/a	3/9/2020	0.00035	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-39Z	0.005	n/a	3/9/2020	0.000055	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-40	0.005	n/a	3/9/2020	0.000095	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41	0.005	n/a	3/6/2020	0.000091	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-42	0.005	n/a	3/6/2020	0.00011	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-43	0.005	n/a	3/9/2020	0.000091	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-44	0.0008411	n/a	3/10/2020	0.00066	11	-8.001	0.4762	27.27	Kaplan-Meier	ln(x)	0.0007022	Param Intra 1 of 3
Lead (mg/L)	GWC-45	0.005	n/a	3/10/2020	0.00014	11	n/a	n/a	36.36	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Lead (mg/L)	GWC-47	0.005	n/a	3/9/2020	0.000058	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-48	0.005	n/a	3/9/2020	0.005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-49Z	0.005	n/a	3/9/2020	0.00017	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-40	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-42	0.0005	n/a	3/6/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-48	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49Z	0.0005	n/a	3/9/2020	0.0005ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-39Z	0.01194	n/a	3/9/2020	0.04	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Nickel (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.0089	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-42	0.01	n/a	3/6/2020	0.0015	10	n/a	n/a	20	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.00082	10	n/a	n/a	40	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-44	0.01	n/a	3/10/2020	0.00086	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.0012	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-47	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.0039	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-49Z	0.009582	n/a	3/9/2020	0.003	10	0.004688	0.002447	10	None	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-44	0.006719	n/a	3/10/2020	0.0063	11	0.05783	0.01249	45.45	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWC-48	0.01	n/a	3/9/2020	0.01ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-39Z	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-40	0.001	n/a	3/9/2020	0.000078	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-42	0.001	n/a	3/6/2020	0.000086	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWA-43	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-44	0.001	n/a	3/10/2020	0.001ND	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-47	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-48	0.001	n/a	3/9/2020	0.00009	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-49Z	0.001	n/a	3/9/2020	0.001ND	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-45	0.01	n/a	3/10/2020	0.01ND	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39Z	0.01	n/a	3/9/2020	0.0035	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-40	0.01	n/a	3/9/2020	0.002	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41	0.01	n/a	3/6/2020	0.0027	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-42	0.01457	n/a	3/6/2020	0.012	10	0.09783	0.01143	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWA-43	0.01	n/a	3/9/2020	0.002	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3

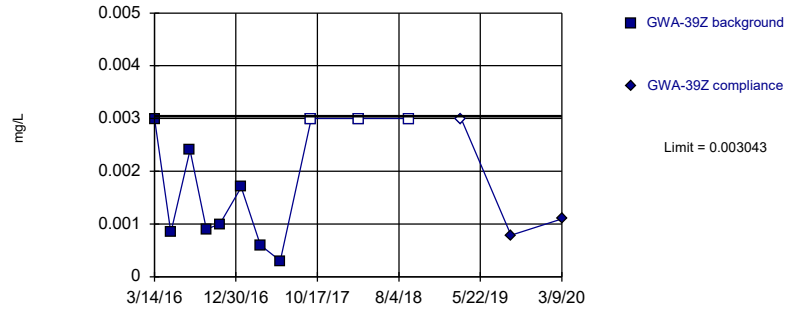
Intrawell Prediction Limits (State) - Overburden All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 7:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWC-44	0.006244	n/a	3/10/2020	0.0049	10	0.06517	0.006924	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-45	0.007234	n/a	3/10/2020	0.0031	10	0.004638	0.001298	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/9/2020	0.044	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-48	0.008972	n/a	3/9/2020	0.0079	10	0.006348	0.001312	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-49Z	0.01	n/a	3/9/2020	0.0047	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Within Limit

Prediction Limit
Intrawell Parametric

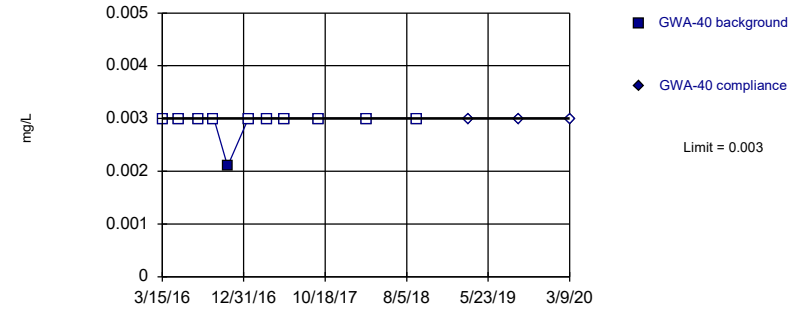


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001342, Std. Dev.=0.0008802, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8365, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

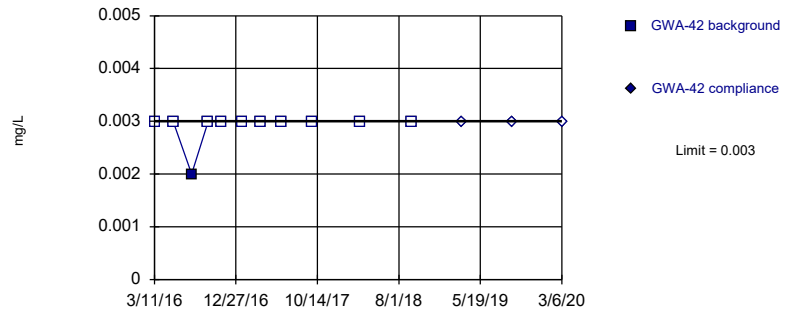


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

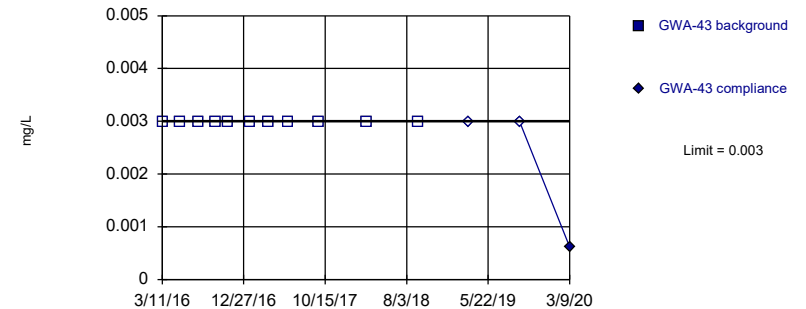


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	0.003	
5/11/2016	0.000839 (J)	
7/19/2016	0.0024 (J)	
9/15/2016	0.0009 (J)	
11/2/2016	0.001 (J)	
1/18/2017	0.0017 (J)	
3/28/2017	0.0006 (J)	
6/7/2017	0.0003 (J)	
9/26/2017	<0.003	
3/14/2018	<0.003	
9/12/2018	<0.003	
3/15/2019		<0.003
9/9/2019		0.00079 (J)
3/9/2020		0.0011 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.003	
5/11/2016	<0.003	
7/21/2016	<0.003	
9/15/2016	<0.003	
11/3/2016	0.0021 (J)	
1/17/2017	<0.003	
3/24/2017	<0.003	
5/24/2017	<0.003	
9/26/2017	<0.003	
3/14/2018	<0.003	
9/12/2018	<0.003	
3/13/2019		<0.003
9/9/2019		<0.003
3/9/2020		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.003	
5/16/2016	<0.003	
7/22/2016	0.002 (J)	
9/19/2016	<0.003	
11/3/2016	<0.003	
1/17/2017	<0.003	
3/27/2017	<0.003	
6/7/2017	<0.003	
9/26/2017	<0.003	
3/14/2018	<0.003	
9/14/2018	<0.003	
3/14/2019		<0.003
9/10/2019		<0.003
3/6/2020		<0.003

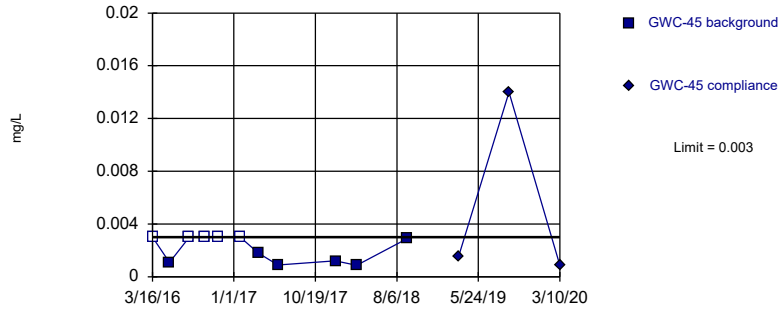
Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.003	
5/13/2016	<0.003	
7/19/2016	<0.003 (*)	
9/16/2016	<0.003	
11/2/2016	<0.003	
1/18/2017	<0.003	
3/28/2017	<0.003	
6/6/2017	<0.003	
9/22/2017	<0.003	
3/14/2018	<0.003	
9/12/2018	<0.003	
3/13/2019		<0.003
9/11/2019		<0.003
3/9/2020		0.00062 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

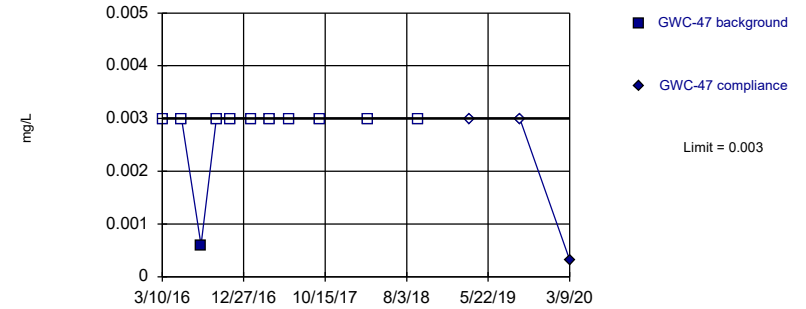


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

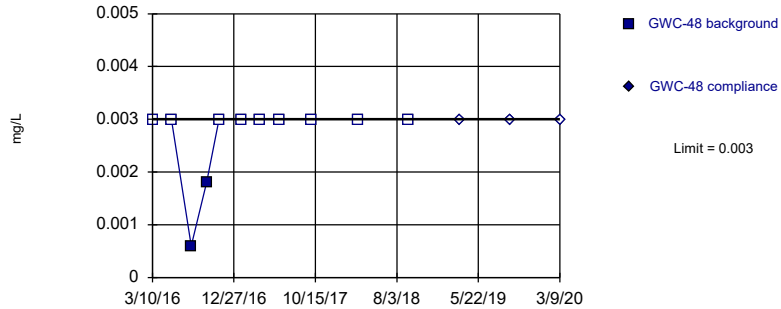


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

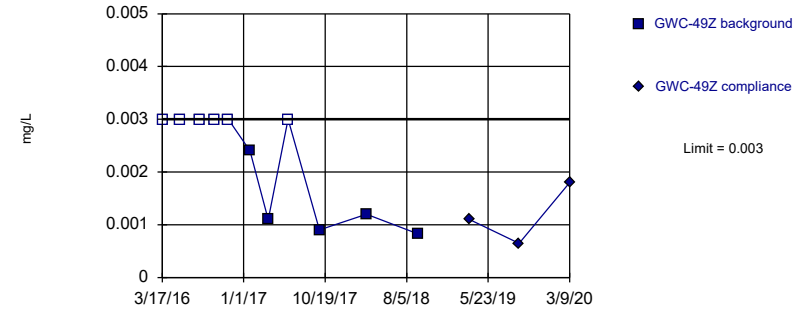


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.003	
5/16/2016	0.00109 (J)	
7/25/2016	<0.003 (*)	
9/19/2016	<0.003	
11/4/2016	<0.003	
1/23/2017	<0.003	
3/29/2017	0.0018 (J)	
6/7/2017	0.0009 (J)	
9/27/2017	0.0111 (o)	
12/29/2017	0.0012 (Y)	
3/15/2018	0.00086 (J)	
9/13/2018	0.0029 (J)	
3/14/2019		0.0015 (J)
9/11/2019		0.014
3/10/2020		0.00087 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.003	
5/18/2016	<0.003	
7/27/2016	0.0006 (J)	
9/20/2016	<0.003	
11/7/2016	<0.003	
1/23/2017	<0.003	
3/29/2017	<0.003	
6/8/2017	<0.003	
9/27/2017	<0.003	
3/15/2018	<0.003	
9/13/2018	<0.003	
3/15/2019		<0.003
9/12/2019		<0.003
3/9/2020		0.00032 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.003	
5/17/2016	<0.003	
7/27/2016	0.0006 (J)	
9/20/2016	0.0018 (J)	
11/4/2016	<0.003	
1/23/2017	<0.003	
3/28/2017	<0.003	
6/8/2017	<0.003 (*)	
9/29/2017	<0.003	
3/15/2018	<0.003	
9/13/2018	<0.003	
3/15/2019		<0.003
9/11/2019		<0.003 (D)
3/9/2020		<0.003

Prediction Limit

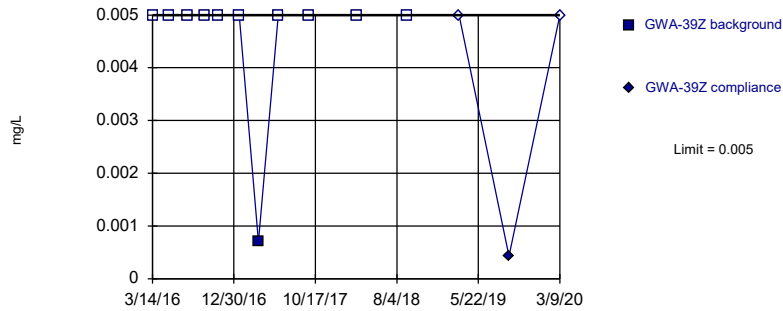
Constituent: Antimony (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.003	
5/18/2016	<0.003	
7/28/2016	<0.003	
9/21/2016	<0.003	
11/7/2016	<0.003 (*)	
1/24/2017	0.0024 (J)	
3/30/2017	0.0011 (J)	
6/9/2017	<0.003 (*)	
9/29/2017	0.0009 (J)	
3/15/2018	0.0012 (J)	
9/14/2018	0.00083 (J)	
3/19/2019		0.0011 (J)
9/11/2019		0.00065 (J)
3/9/2020		0.0018 (J)

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



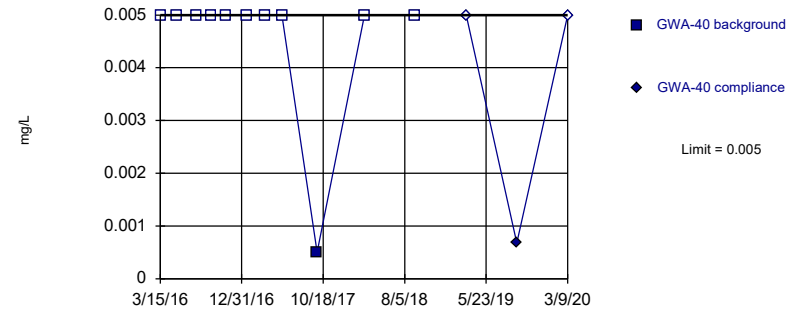
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



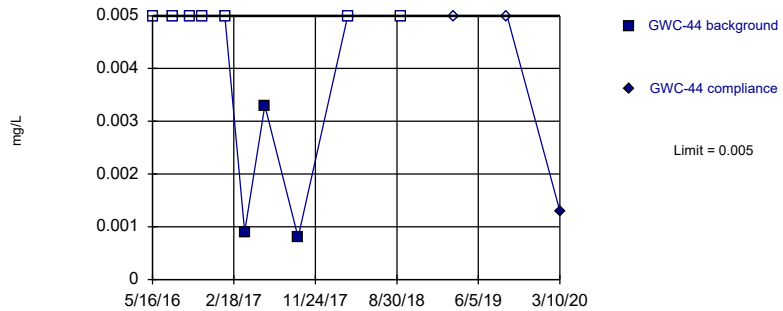
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



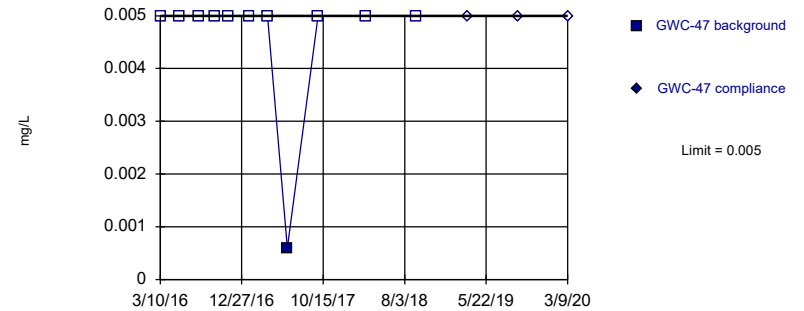
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.005	
5/11/2016	<0.005	
7/19/2016	<0.005	
9/15/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	0.0007 (J)	
6/7/2017	<0.005	
9/26/2017	<0.005	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/15/2019		<0.005
9/9/2019		0.00043 (J)
3/9/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.005	
5/11/2016	<0.005	
7/21/2016	<0.005	
9/15/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/24/2017	<0.005	
5/24/2017	<0.005	
9/26/2017	0.0005 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/9/2019		0.00068 (J)
3/9/2020		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

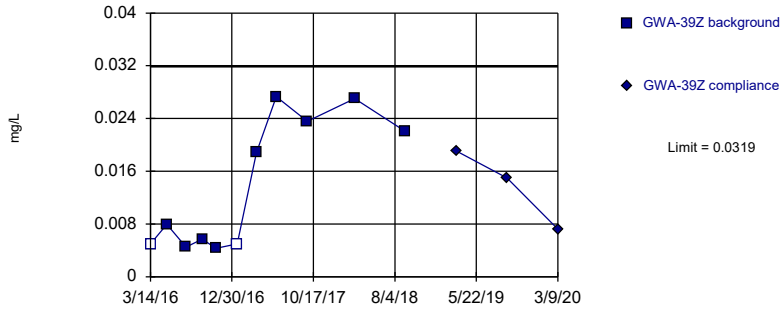
	GWC-44	GWC-44
3/16/2016	0.0657 (o)	
5/16/2016	<0.005	
7/25/2016	<0.005	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/19/2017	<0.005	
3/28/2017	0.0009 (J)	
6/5/2017	0.0033 (J)	
9/26/2017	0.0008 (J)	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		0.0013 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.005	
5/18/2016	<0.005	
7/27/2016	<0.005	
9/20/2016	<0.005	
11/7/2016	<0.005	
1/23/2017	<0.005	
3/29/2017	<0.005	
6/8/2017	0.0006 (J)	
9/27/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/15/2019		<0.005
9/12/2019		<0.005
3/9/2020		<0.005

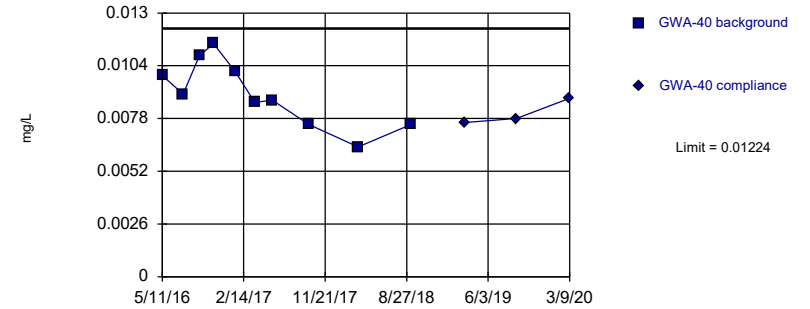
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01385, Std. Dev.=0.009342, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7963, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

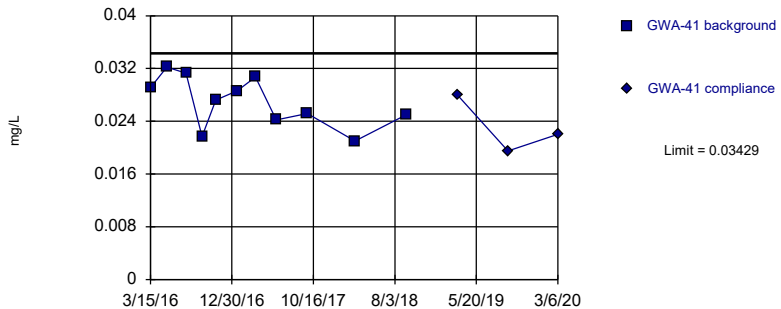
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.009012, Std. Dev.=0.001613, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

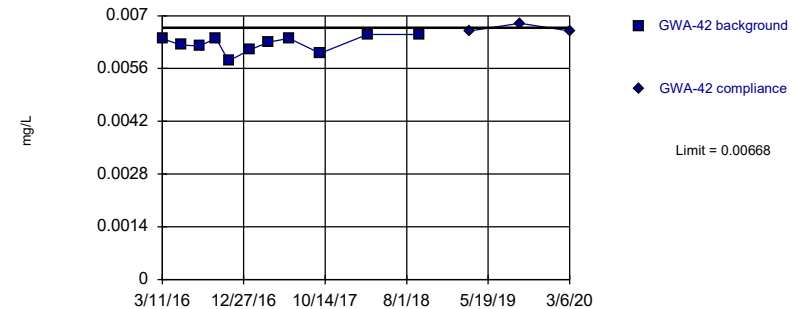
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.02693, Std. Dev.=0.003812, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=0.006255, Std. Dev.=0.0002197, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.919, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.01	
5/11/2016	0.00793 (J)	
7/19/2016	0.0045 (J)	
9/15/2016	0.0057 (J)	
11/2/2016	0.0043 (J)	
1/18/2017	<0.01 (*)	
3/28/2017	0.0188	
6/7/2017	0.0273	
9/26/2017	0.0236	
3/14/2018	0.027	
9/12/2018	0.022	
3/15/2019		0.019
9/9/2019		0.015
3/9/2020		0.0072 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<3 (o)	
5/11/2016	0.00992 (J)	
7/21/2016	0.009 (J)	
9/15/2016	0.0109	
11/3/2016	0.0115	
1/17/2017	0.0101	
3/24/2017	0.0086 (J)	
5/24/2017	0.0087 (J)	
9/26/2017	0.0075 (J)	
3/14/2018	0.0064 (J)	
9/12/2018	0.0075 (J)	
3/13/2019		0.0076 (J)
9/9/2019		0.0078 (J)
3/9/2020		0.0088 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

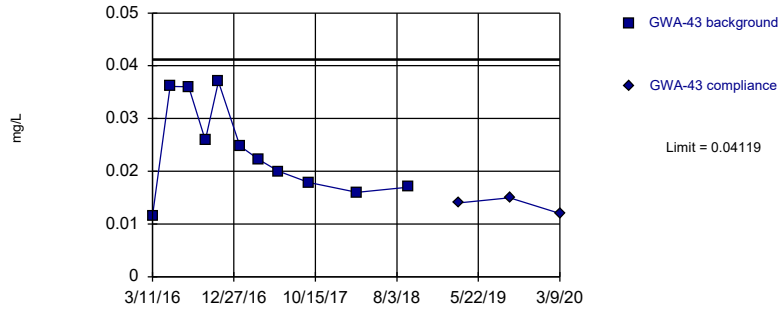
	GWA-41	GWA-41
3/15/2016	0.0291	
5/12/2016	0.0322	
7/20/2016	0.0313	
9/15/2016	0.0217	
11/3/2016	0.0272	
1/18/2017	0.0286 (J)	
3/24/2017	0.0307	
6/6/2017	0.0242	
9/25/2017	0.0252	
3/14/2018	0.021	
9/12/2018	0.025	
3/14/2019		0.028
9/10/2019		0.0195 (D)
3/6/2020		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	0.00639 (J)	
5/16/2016	0.00622 (J)	
7/22/2016	0.0062 (J)	
9/19/2016	0.0064 (J)	
11/3/2016	0.0058 (J)	
1/17/2017	0.0061 (J)	
3/27/2017	0.0063 (J)	
6/7/2017	0.0064 (J)	
9/26/2017	0.006 (J)	
3/14/2018	0.0065 (J)	
9/14/2018	0.0065 (J)	
3/14/2019		0.0066 (J)
9/10/2019		0.0068 (J)
3/6/2020		0.0066 (J)

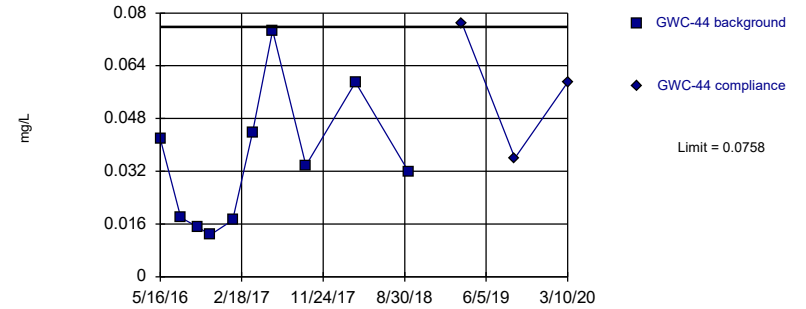
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.02405, Std. Dev.=0.00887, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

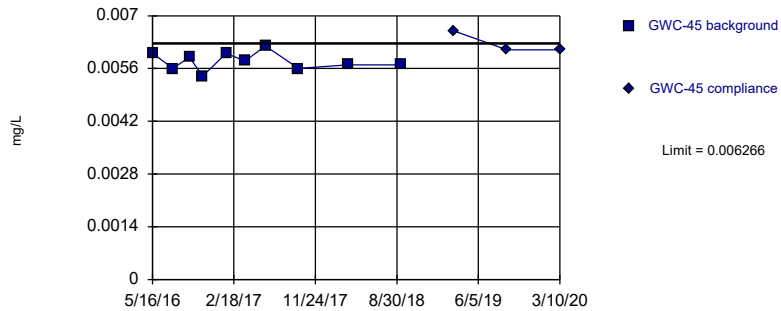
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0348, Std. Dev.=0.0205, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9099, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

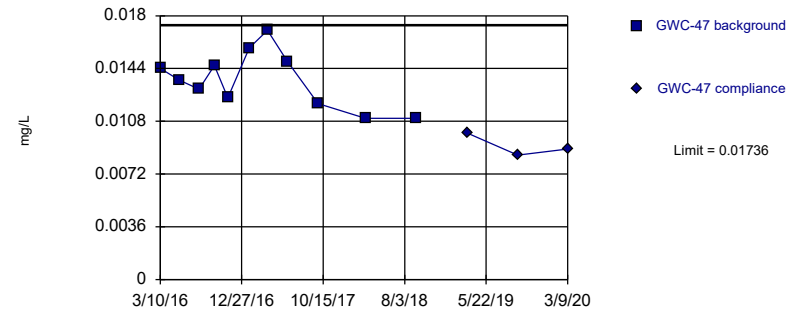
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.00579, Std. Dev.=0.0002378, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01361, Std. Dev.=0.001939, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9632, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.0116	
5/13/2016	0.0361	
7/19/2016	0.036	
9/16/2016	0.0259	
11/2/2016	0.037	
1/18/2017	0.0248	
3/28/2017	0.0222	
6/6/2017	0.02	
9/22/2017	0.0179	
3/14/2018	0.016	
9/12/2018	0.017	
3/13/2019		0.014
9/11/2019		0.015
3/9/2020		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<3 (o)	
5/16/2016	0.0418	
7/25/2016	0.0179	
9/19/2016	0.0152	
11/3/2016	0.0127	
1/19/2017	0.0172	
3/28/2017	0.0437	
6/5/2017	0.0747	
9/26/2017	0.0338	
3/15/2018	0.059	
9/12/2018	0.032	
3/14/2019		0.077
9/11/2019		0.036
3/10/2020		0.059

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	0.6294 (o)	
5/16/2016	0.006 (J)	
7/25/2016	0.0056 (J)	
9/19/2016	0.0059 (J)	
11/4/2016	0.0054 (J)	
1/23/2017	0.006 (J)	
3/29/2017	0.0058 (J)	
6/7/2017	0.0062 (J)	
9/27/2017	0.0056 (J)	
3/15/2018	0.0057 (J)	
9/13/2018	0.0057 (J)	
3/14/2019		0.0066 (J)
9/11/2019		0.0061 (J)
3/10/2020		0.0061 (J)

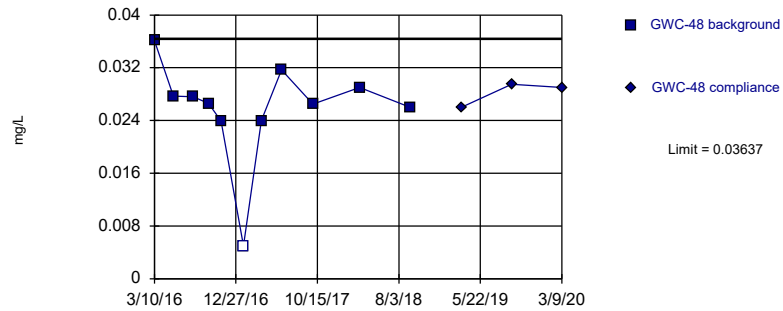
Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	0.0144	
5/18/2016	0.0136	
7/27/2016	0.013	
9/20/2016	0.0146	
11/7/2016	0.0124	
1/23/2017	0.0158	
3/29/2017	0.017	
6/8/2017	0.0149	
9/27/2017	0.012	
3/15/2018	0.011	
9/13/2018	0.011	
3/15/2019		0.01
9/12/2019		0.0085 (J)
3/9/2020		0.0089 (J)

Within Limit

Prediction Limit
Intrawell Parametric

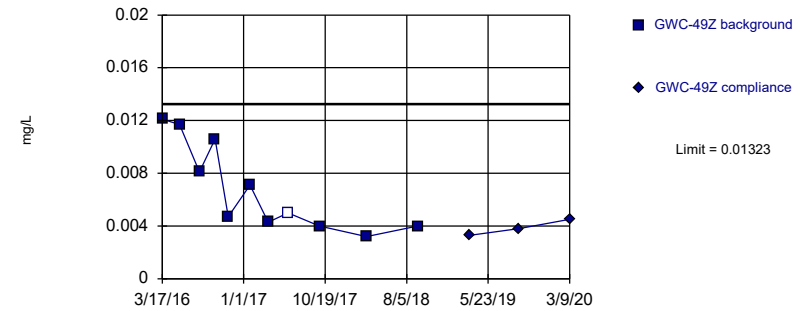


Background Data Summary (based on square transformation): Mean=0.0007215, Std. Dev.=0.0003112, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9063, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

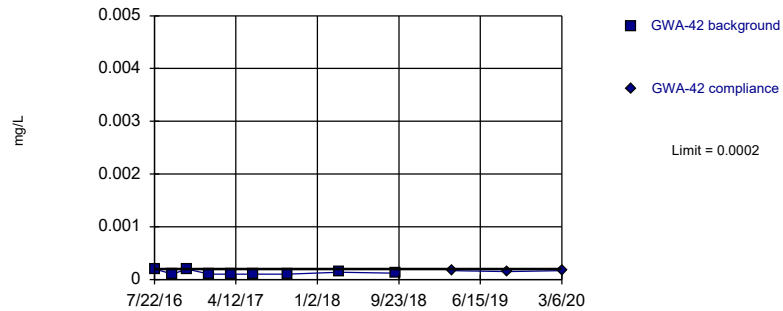


Background Data Summary: Mean=0.0068, Std. Dev.=0.00333, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8555, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

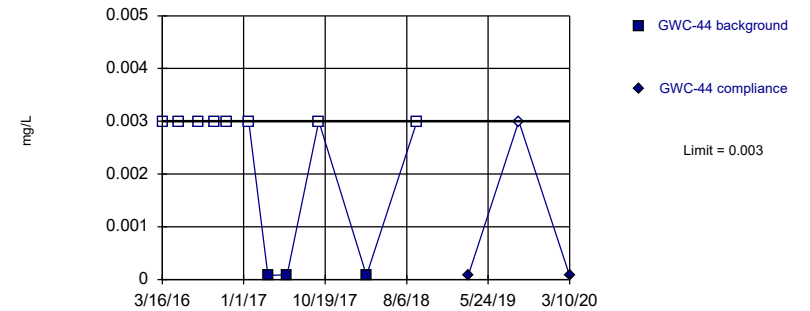


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 9 background values. Well-constituent pair annual alpha = 0.009329. Individual comparison alpha = 0.004675 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.0361	
5/17/2016	0.0277	
7/27/2016	0.0276	
9/20/2016	0.0266	
11/4/2016	0.0239	
1/23/2017	<0.01	
3/28/2017	0.024	
6/8/2017	0.0317	
9/29/2017	0.0265	
3/15/2018	0.029	
9/13/2018	0.026	
3/15/2019		0.026
9/11/2019		0.0295 (D)
3/9/2020		0.029

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	0.0121	
5/18/2016	0.0117	
7/28/2016	0.0081 (J)	
9/21/2016	0.0106	
11/7/2016	0.0047 (J)	
1/24/2017	0.0071 (J)	
3/30/2017	0.0043 (J)	
6/9/2017	<0.01 (*)	
9/29/2017	0.004 (J)	
3/15/2018	0.0032 (J)	
9/14/2018	0.004 (J)	
3/19/2019		0.0033 (J)
9/11/2019		0.0038 (J)
3/9/2020		0.0045 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.005 (o)	
5/16/2016	<0.003 (o)	
7/22/2016	0.0002 (J)	
9/19/2016	0.0001 (J)	
11/3/2016	0.0002 (J)	
1/17/2017	0.0001 (J)	
3/27/2017	0.0001 (J)	
6/7/2017	0.0001 (J)	
9/26/2017	0.0001 (J)	
3/14/2018	0.00014 (J)	
9/14/2018	0.00012 (J)	
3/14/2019		0.00017 (J)
9/10/2019		0.00015 (J)
3/6/2020		0.00017 (J)

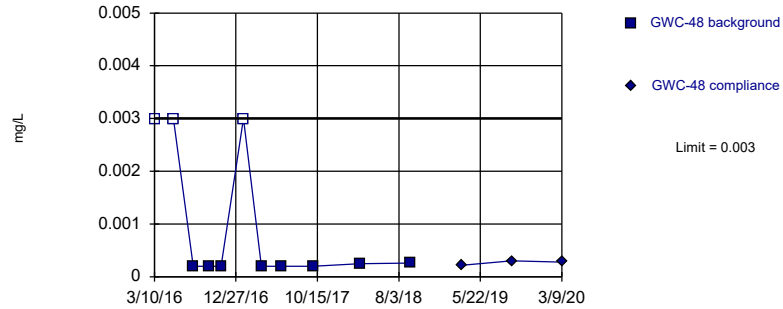
Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.003	
5/16/2016	<0.003	
7/25/2016	<0.003	
9/19/2016	<0.003	
11/3/2016	<0.003	
1/19/2017	<0.003	
3/28/2017	8E-05 (J)	
6/5/2017	9E-05 (J)	
9/26/2017	<0.003	
3/15/2018	7.7E-05 (J)	
9/12/2018	<0.003	
3/14/2019		7.8E-05 (J)
9/11/2019		<0.003
3/10/2020		7.4E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

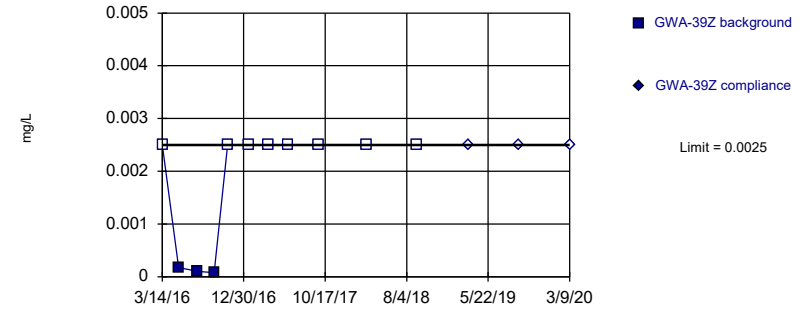


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

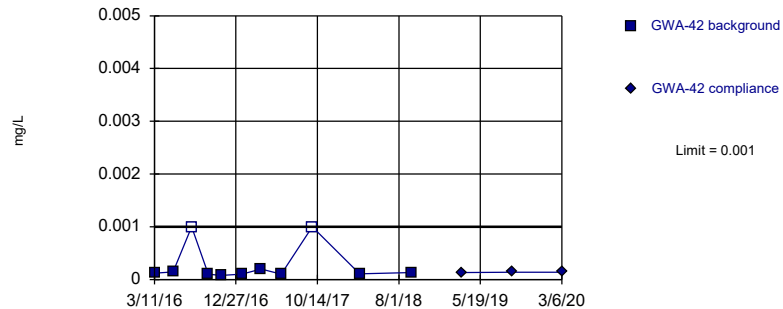


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

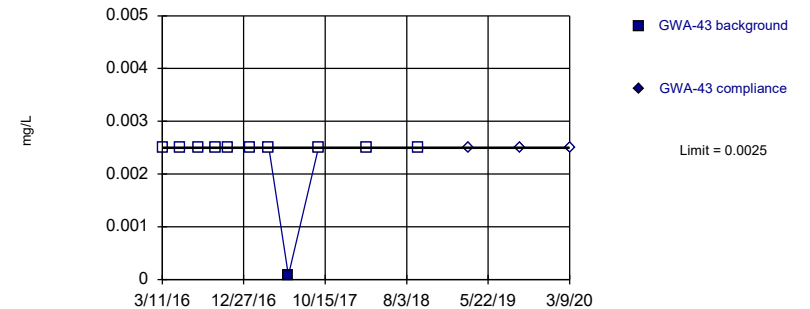


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 18.18% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.003	
5/17/2016	<0.003	
7/27/2016	0.0002 (J)	
9/20/2016	0.0002 (J)	
11/4/2016	0.0002 (J)	
1/23/2017	<0.003	
3/28/2017	0.0002 (J)	
6/8/2017	0.0002 (J)	
9/29/2017	0.0002 (J)	
3/15/2018	0.00025 (J)	
9/13/2018	0.00026 (J)	
3/15/2019		0.00022 (J)
9/11/2019		0.0003 (JD)
3/9/2020		0.00028 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.0025	
5/11/2016	0.000177 (J)	
7/19/2016	0.0001 (J)	
9/15/2016	8E-05 (J)	
11/2/2016	<0.0025	
1/18/2017	<0.0025	
3/28/2017	<0.0025	
6/7/2017	<0.0025	
9/26/2017	<0.0025	
3/14/2018	<0.0025	
9/12/2018	<0.0025	
3/15/2019		<0.0025
9/9/2019		<0.0025
3/9/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	0.000121 (J)	
5/16/2016	0.000145 (J)	
7/22/2016	<0.001	
9/19/2016	0.0001 (J)	
11/3/2016	8E-05 (J)	
1/17/2017	0.0001 (J)	
3/27/2017	0.0002 (J)	
6/7/2017	0.0001 (J)	
9/26/2017	<0.001	
3/14/2018	0.00011 (J)	
9/14/2018	0.00013 (J)	
3/14/2019		0.00013 (J)
9/10/2019		0.00014 (J)
3/6/2020		0.00014 (J)

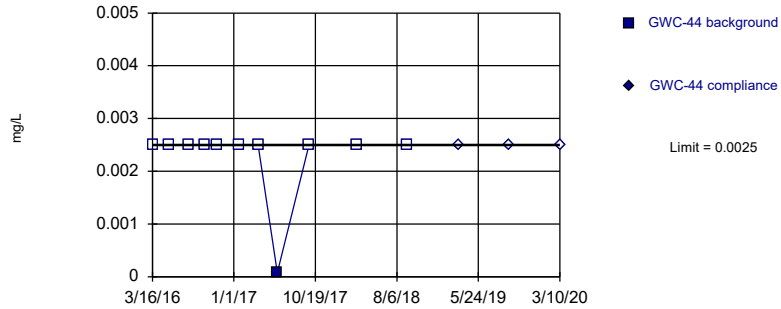
Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.0025	
5/13/2016	<0.0025	
7/19/2016	<0.0025	
9/16/2016	<0.0025	
11/2/2016	<0.0025	
1/18/2017	<0.0025	
3/28/2017	<0.0025	
6/6/2017	8E-05 (J)	
9/22/2017	<0.0025	
3/14/2018	<0.0025	
9/12/2018	<0.0025	
3/13/2019		<0.0025
9/11/2019		<0.0025
3/9/2020		<0.0025

Within Limit

Prediction Limit
Intrawell Non-parametric

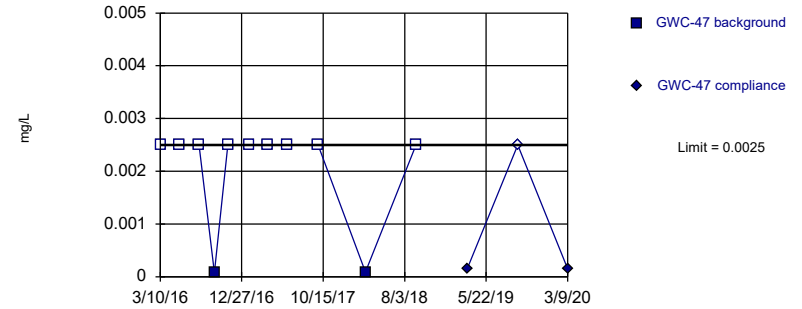


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

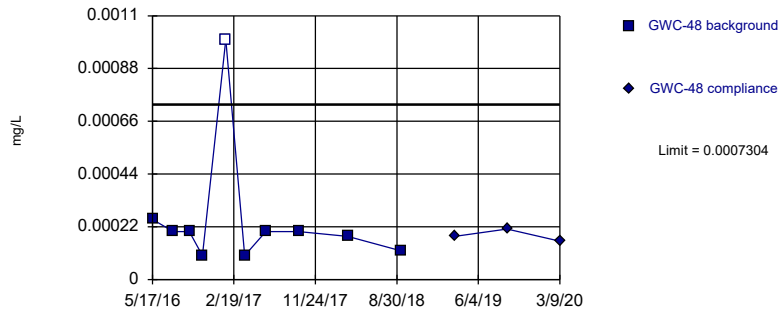


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

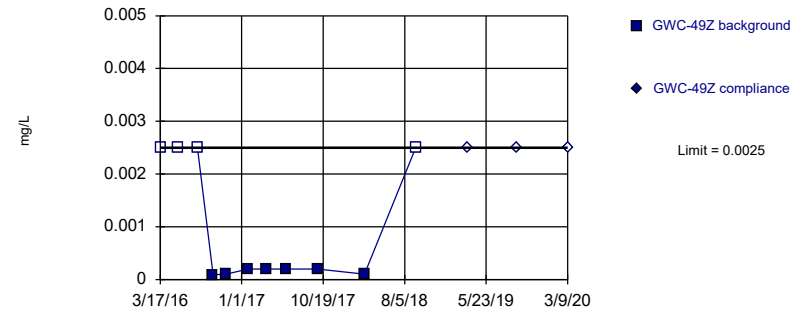


Background Data Summary (based on natural log transformation): Mean=-8.534, Std. Dev.=0.6559, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7878, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 36.36% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.0025	
5/16/2016	<0.0025	
7/25/2016	<0.0025	
9/19/2016	<0.0025	
11/3/2016	<0.0025	
1/19/2017	<0.0025	
3/28/2017	<0.0025	
6/5/2017	8E-05 (J)	
9/26/2017	<0.0025	
3/15/2018	<0.0025	
9/12/2018	<0.0025	
3/14/2019		<0.0025
9/11/2019		<0.0025
3/10/2020		<0.0025

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.0025	
5/18/2016	<0.0025	
7/27/2016	<0.0025	
9/20/2016	8E-05 (J)	
11/7/2016	<0.0025	
1/23/2017	<0.0025	
3/29/2017	<0.0025	
6/8/2017	<0.0025	
9/27/2017	<0.0025	
3/15/2018	9.3E-05 (J)	
9/13/2018	<0.0025	
3/15/2019		0.00015 (J)
9/12/2019		<0.0025
3/9/2020		0.00015 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.0195 (Jo)	
5/17/2016	0.000251 (J)	
7/27/2016	0.0002 (J)	
9/20/2016	0.0002 (J)	
11/4/2016	0.0001 (J)	
1/23/2017	<0.001	
3/28/2017	0.0001 (J)	
6/8/2017	0.0002 (J)	
9/29/2017	0.0002 (J)	
3/15/2018	0.00018 (J)	
9/13/2018	0.00012 (J)	
3/15/2019		0.00018 (J)
9/11/2019		0.00021 (JD)
3/9/2020		0.00016 (J)

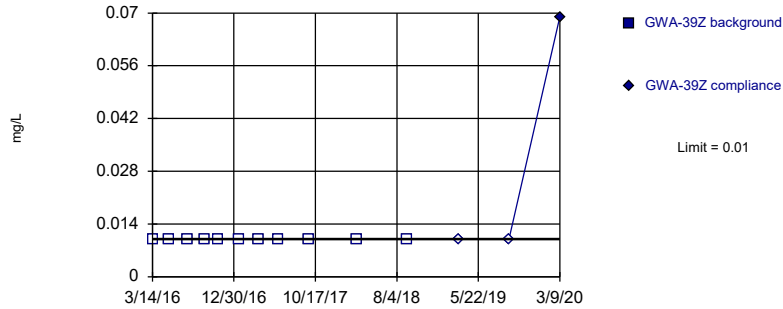
Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.0025	
5/18/2016	<0.0025	
7/28/2016	<0.0025	
9/21/2016	9E-05 (J)	
11/7/2016	0.0001 (J)	
1/24/2017	0.0002 (J)	
3/30/2017	0.0002 (J)	
6/9/2017	0.0002 (J)	
9/29/2017	0.0002 (J)	
3/15/2018	0.0001 (J)	
9/14/2018	<0.0025	
3/19/2019		<0.0025
9/11/2019		<0.0025
3/9/2020		<0.0025

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

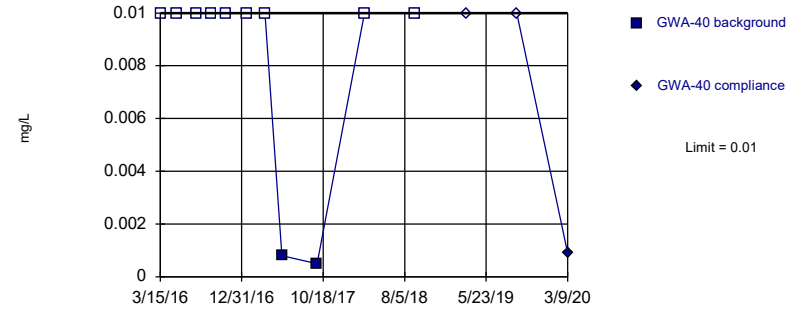


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

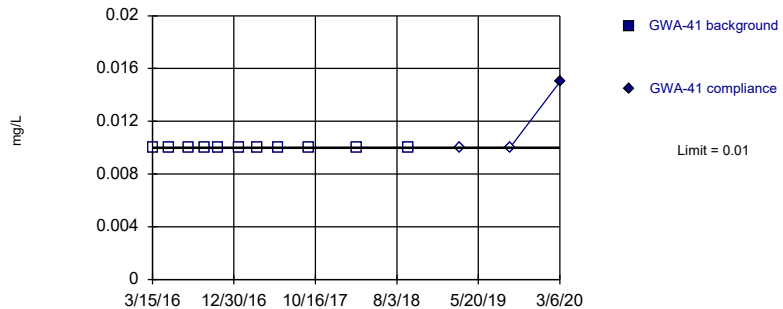


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

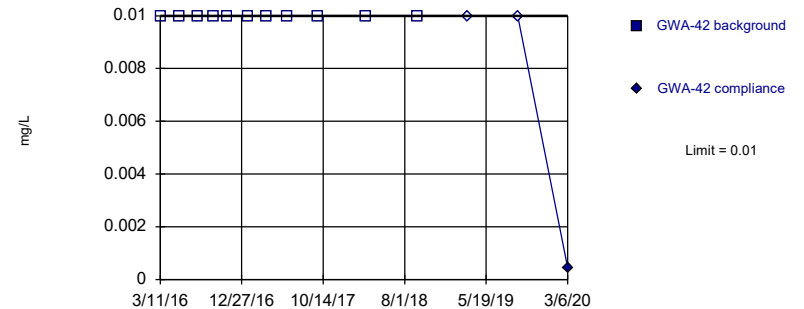


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.01	
5/11/2016	<0.01	
7/19/2016	<0.01	
9/15/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	<0.01	
3/28/2017	<0.01 (*)	
6/7/2017	<0.01	
9/26/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/15/2019		<0.01
9/9/2019		<0.01
3/9/2020		0.069

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.01	
5/11/2016	<0.01	
7/21/2016	<0.01	
9/15/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/24/2017	<0.01 (*)	
5/24/2017	0.0008 (J)	
9/26/2017	0.0005 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/9/2019		<0.01
3/9/2020		0.0009 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.01	
5/12/2016	<0.01	
7/20/2016	<0.01	
9/15/2016	<0.01	
11/3/2016	<0.01	
1/18/2017	<0.01	
3/24/2017	<0.01 (*)	
6/6/2017	<0.01	
9/25/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/10/2019		<0.01 (D)
3/6/2020		0.015

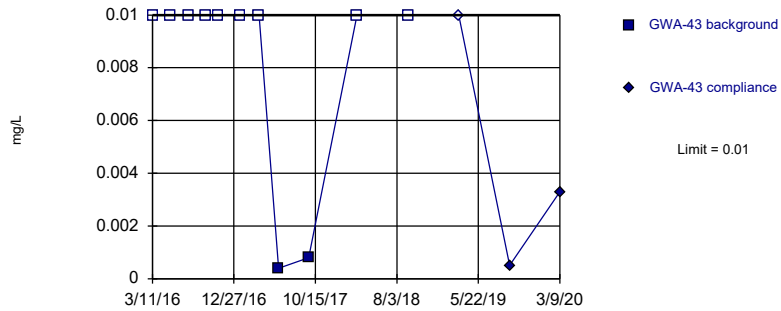
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.01	
5/16/2016	<0.01	
7/22/2016	<0.01	
9/19/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/27/2017	<0.01	
6/7/2017	<0.01	
9/26/2017	<0.01	
3/14/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		<0.01
9/10/2019		<0.01
3/6/2020		0.00045 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

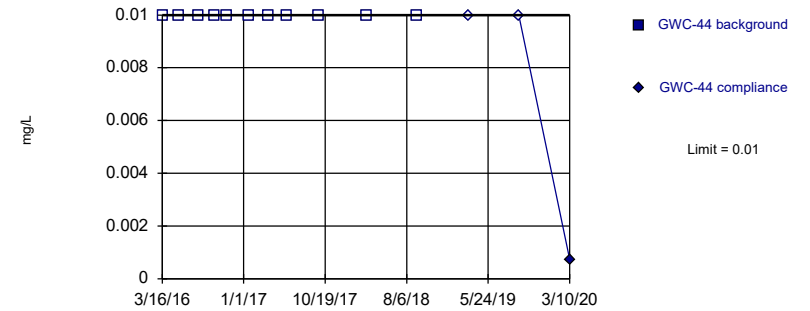


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

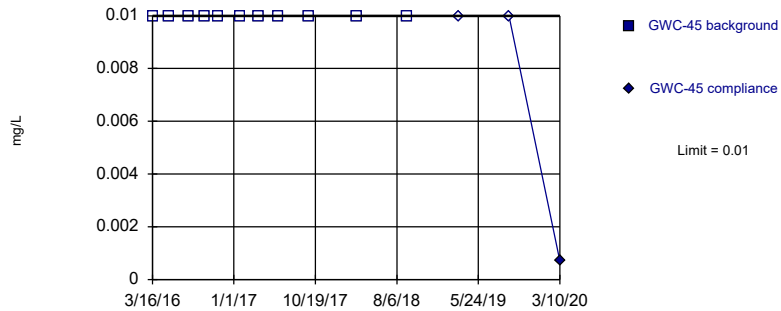


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

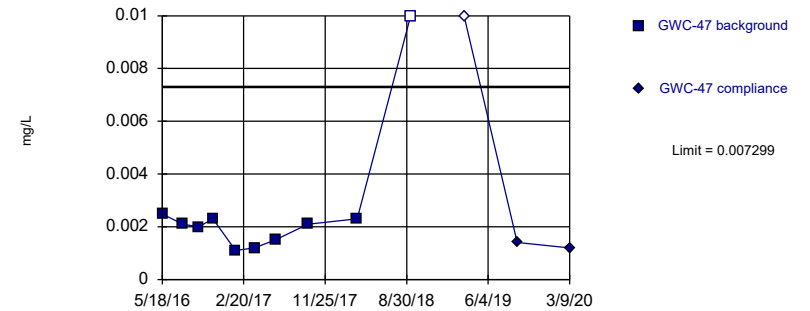


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:05 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-6.134, Std. Dev.=0.6071, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7857, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Chromium Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.01	
5/13/2016	<0.01	
7/19/2016	<0.01	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	<0.01	
3/28/2017	<0.01 (*)	
6/6/2017	0.0004 (J)	
9/22/2017	0.0008 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		0.00051 (J)
3/9/2020		0.0033 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	<0.01	
9/19/2016	<0.01	
11/3/2016	<0.01	
1/19/2017	<0.01	
3/28/2017	<0.01	
6/5/2017	<0.01	
9/26/2017	<0.01	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/11/2019		<0.01
3/10/2020		0.00074 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	<0.01	
9/19/2016	<0.01	
11/4/2016	<0.01	
1/23/2017	<0.01	
3/29/2017	<0.01	
6/7/2017	<0.01	
9/27/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/14/2019		<0.01
9/11/2019		<0.01
3/10/2020		0.0007 (J)

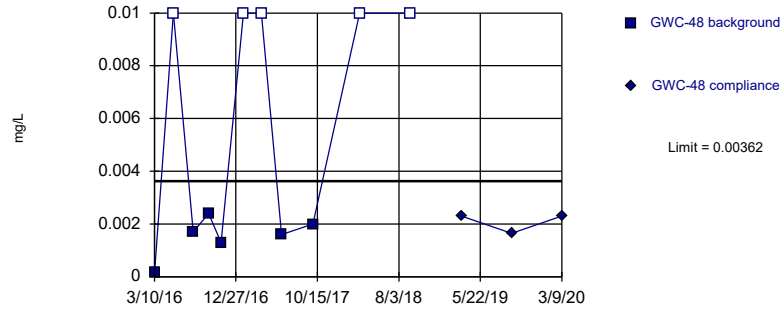
Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	0.0439 (o)	
5/18/2016	0.00248 (J)	
7/27/2016	0.0021 (J)	
9/20/2016	0.002 (J)	
11/7/2016	0.0023 (J)	
1/23/2017	0.0011 (J)	
3/29/2017	0.0012 (J)	
6/8/2017	0.0015 (J)	
9/27/2017	0.0021 (J)	
3/15/2018	0.0023 (J)	
9/13/2018	<0.01	
3/15/2019		<0.01
9/12/2019		0.0014 (J)
3/9/2020		0.0012 (J)

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Parametric

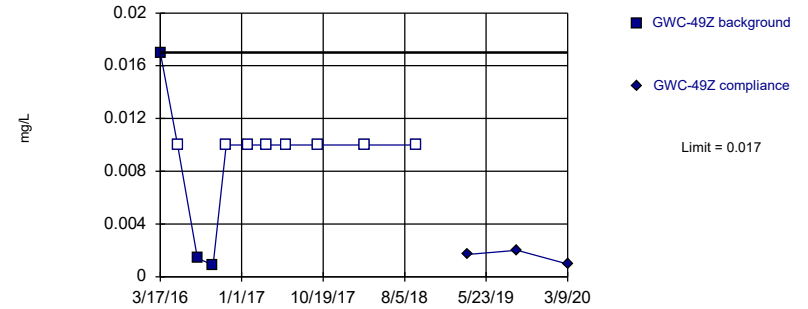


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03719, Std. Dev.=0.01189, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7973, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Chromium Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Non-parametric

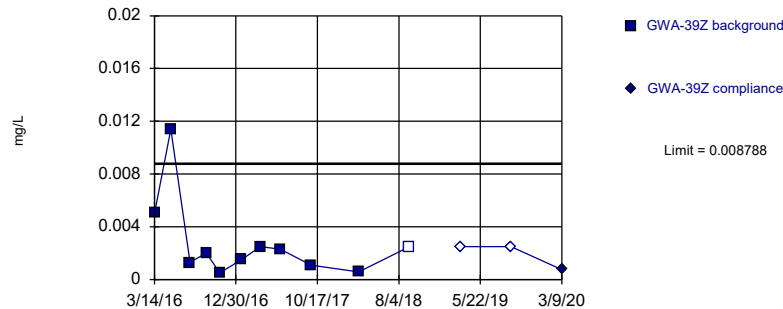


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Parametric

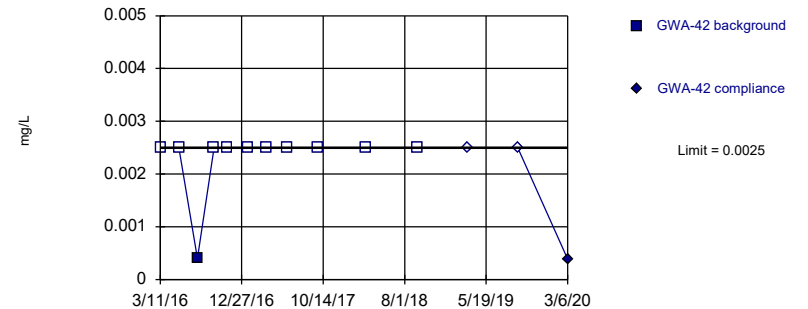


Background Data Summary (based on square root transformation): Mean=0.04771, Std. Dev.=0.02382, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8448, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.000148 (J)	
5/17/2016	<0.01	
7/27/2016	0.0017 (J)	
9/20/2016	0.0024 (J)	
11/4/2016	0.0013 (J)	
1/23/2017	<0.01	
3/28/2017	<0.01 (*)	
6/8/2017	0.0016 (J)	
9/29/2017	0.002 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/15/2019		0.0023 (J)
9/11/2019		0.00165 (JD)
3/9/2020		0.0023 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	0.017 (J)	
5/18/2016	<0.01	
7/28/2016	0.0014 (J)	
9/21/2016	0.0009 (J)	
11/7/2016	<0.01	
1/24/2017	<0.01	
3/30/2017	<0.01	
6/9/2017	<0.01	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		0.0017 (J)
9/11/2019		0.002 (J)
3/9/2020		0.00096 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	0.00503 (J)	
5/11/2016	0.0114	
7/19/2016	0.0013 (J)	
9/15/2016	0.002 (J)	
11/2/2016	0.0005 (J)	
1/18/2017	0.0015 (J)	
3/28/2017	0.0025 (J)	
6/7/2017	0.0023 (J)	
9/26/2017	0.0011 (J)	
3/14/2018	0.00058 (J)	
9/12/2018	<0.0025	
3/15/2019		<0.0025
9/9/2019		<0.0025
3/9/2020		0.00075 (J)

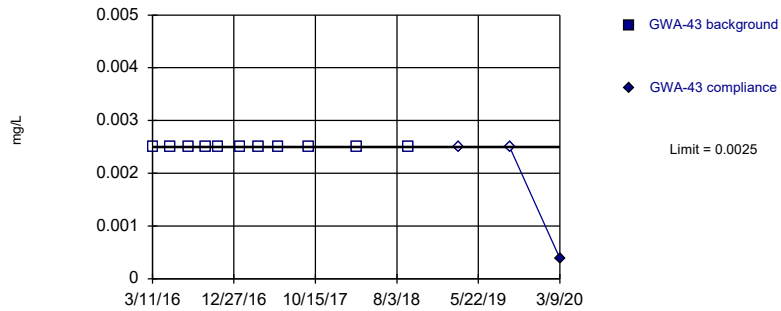
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.0025	
5/16/2016	<0.0025	
7/22/2016	0.0004 (J)	
9/19/2016	<0.0025	
11/3/2016	<0.0025	
1/17/2017	<0.0025	
3/27/2017	<0.0025	
6/7/2017	<0.0025	
9/26/2017	<0.0025	
3/14/2018	<0.0025	
9/14/2018	<0.0025	
3/14/2019		<0.0025
9/10/2019		<0.0025
3/6/2020		0.00039 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

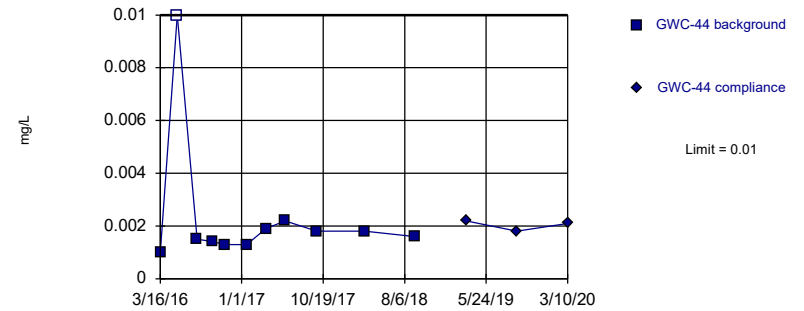


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

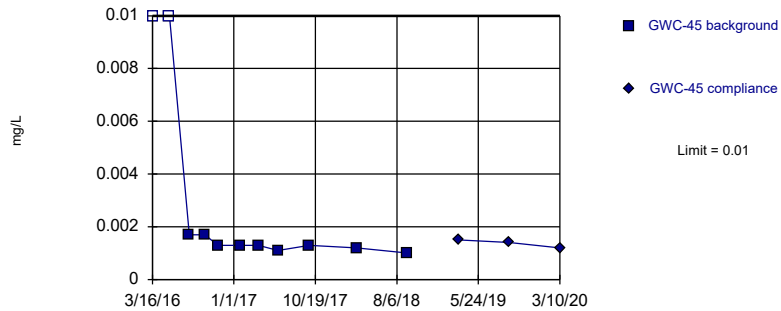


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 9.091% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

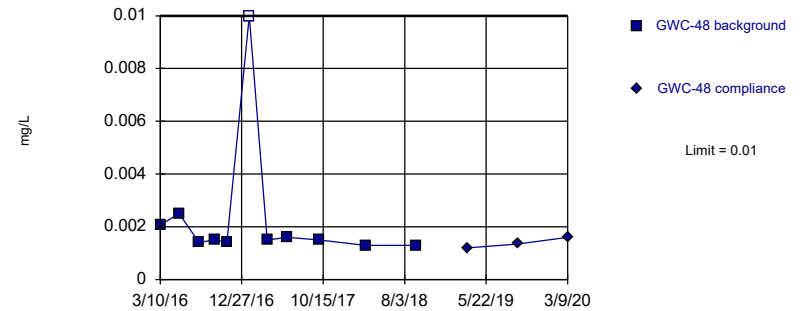


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 18.18% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 9.091% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.0025	
5/13/2016	<0.0025	
7/19/2016	<0.0025	
9/16/2016	<0.0025	
11/2/2016	<0.0025	
1/18/2017	<0.0025	
3/28/2017	<0.0025	
6/6/2017	<0.0025	
9/22/2017	<0.0025	
3/14/2018	<0.0025	
9/12/2018	<0.0025	
3/13/2019		<0.0025
9/11/2019		<0.0025
3/9/2020		0.00039 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	0.00101 (J)	
5/16/2016	<0.01	
7/25/2016	0.0015 (J)	
9/19/2016	0.0014 (J)	
11/3/2016	0.0013 (J)	
1/19/2017	0.0013 (J)	
3/28/2017	0.0019 (J)	
6/5/2017	0.0022 (J)	
9/26/2017	0.0018 (J)	
3/15/2018	0.0018 (J)	
9/12/2018	0.0016 (J)	
3/14/2019		0.0022 (J)
9/11/2019		0.0018 (J)
3/10/2020		0.0021 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	0.0017 (J)	
9/19/2016	0.0017 (J)	
11/4/2016	0.0013 (J)	
1/23/2017	0.0013 (J)	
3/29/2017	0.0013 (J)	
6/7/2017	0.0011 (J)	
9/27/2017	0.0013 (J)	
3/15/2018	0.0012 (J)	
9/13/2018	0.001 (J)	
3/14/2019		0.0015 (J)
9/11/2019		0.0014 (J)
3/10/2020		0.0012 (J)

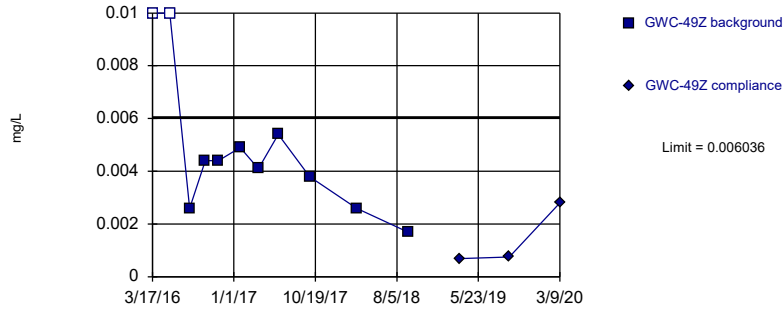
Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.00207 (J)	
5/17/2016	0.0025 (J)	
7/27/2016	0.0014 (J)	
9/20/2016	0.0015 (J)	
11/4/2016	0.0014 (J)	
1/23/2017	<0.01	
3/28/2017	0.0015 (J)	
6/8/2017	0.0016 (J)	
9/29/2017	0.0015 (J)	
3/15/2018	0.0013 (J)	
9/13/2018	0.0013 (J)	
3/15/2019		0.0012 (J)
9/11/2019		0.00135 (JD)
3/9/2020		0.0016 (J)

Within Limit

Prediction Limit
Intrawell Parametric

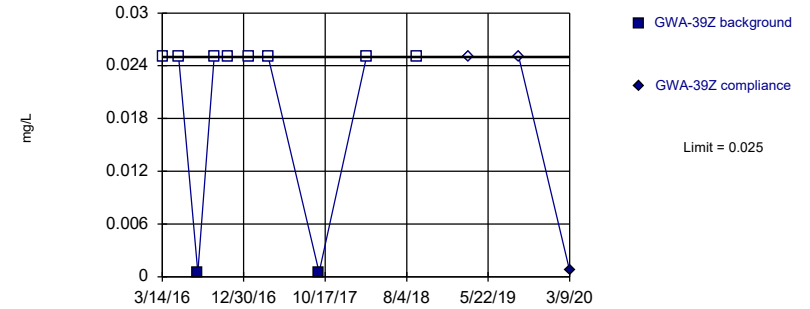


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003487, Std. Dev.=0.001319, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.83, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Cobalt Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

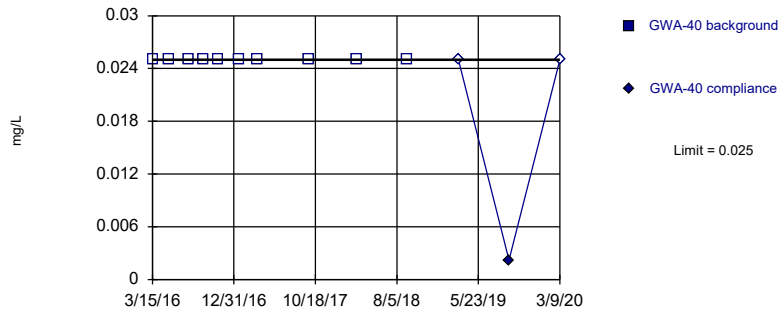


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

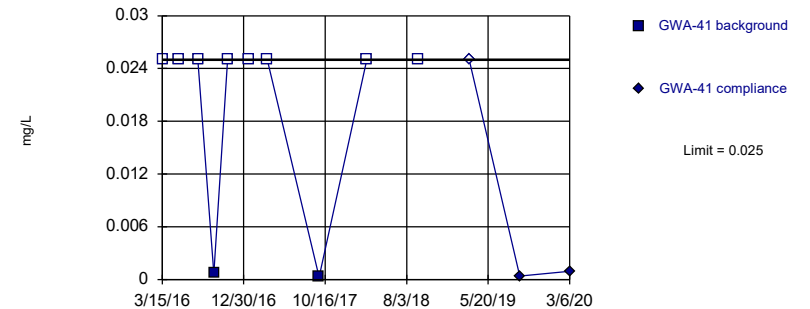


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.01	
5/18/2016	<0.01	
7/28/2016	0.0026 (J)	
9/21/2016	0.0044 (J)	
11/7/2016	0.0044 (J)	
1/24/2017	0.0049 (J)	
3/30/2017	0.0041 (J)	
6/9/2017	0.0054 (J)	
9/29/2017	0.0038 (J)	
3/15/2018	0.0026 (J)	
9/14/2018	0.0017 (J)	
3/19/2019		0.00069 (J)
9/11/2019		0.00075 (J)
3/9/2020		0.0028 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.025	
5/11/2016	<0.025	
7/19/2016	0.0005 (J)	
9/15/2016	<0.025	
11/2/2016	<0.025	
1/18/2017	<0.025	
3/28/2017	<0.025 (*)	
9/26/2017	0.0005 (J)	
3/14/2018	<0.025	
9/12/2018	<0.025	
3/15/2019		<0.025
9/9/2019		<0.025
3/9/2020		0.0007 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.025	
5/11/2016	<0.025	
7/21/2016	<0.025	
9/15/2016	<0.025	
11/3/2016	<0.025	
1/17/2017	<0.025	
3/24/2017	<0.025	
9/26/2017	<0.025	
3/14/2018	<0.025	
9/12/2018	<0.025	
3/13/2019		<0.025
9/9/2019		0.0022 (J)
3/9/2020		<0.025

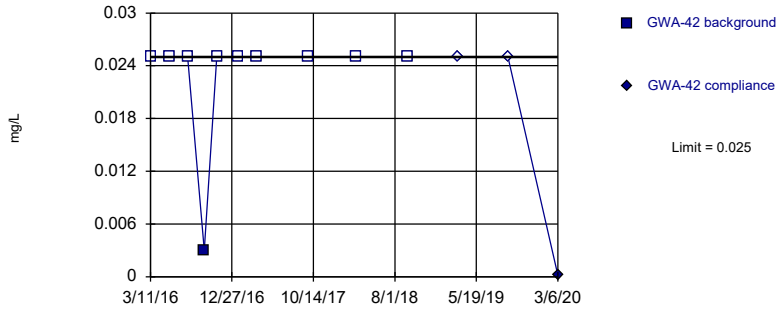
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.025	
5/12/2016	<0.025	
7/20/2016	<0.025	
9/15/2016	0.0007 (J)	
11/3/2016	<0.025	
1/18/2017	<0.025	
3/24/2017	<0.025	
9/25/2017	0.0003 (J)	
3/14/2018	<0.025	
9/12/2018	<0.025	
3/14/2019		<0.025
9/10/2019		0.00038 (JD)
3/6/2020		0.00093 (J)

Within Limit

Prediction Limit
 Intrawell Non-parametric

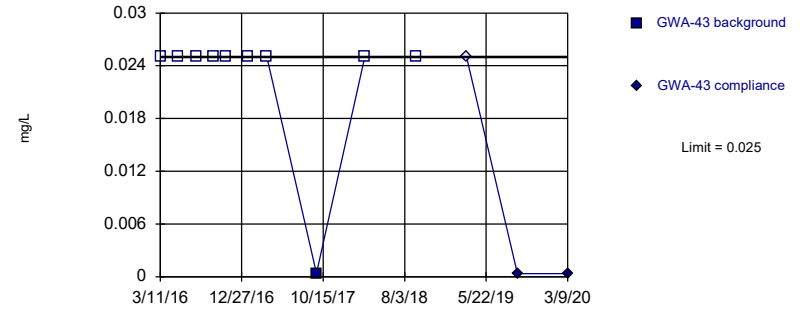


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

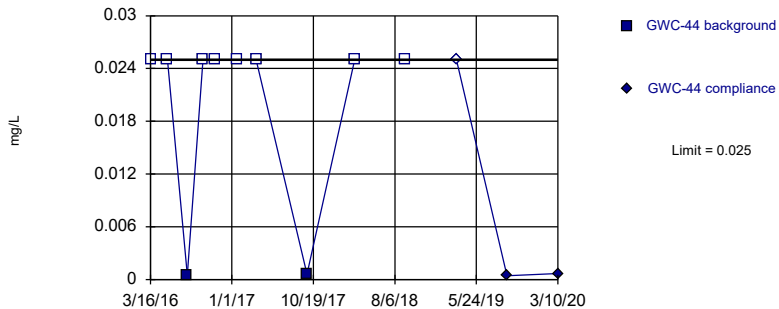


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

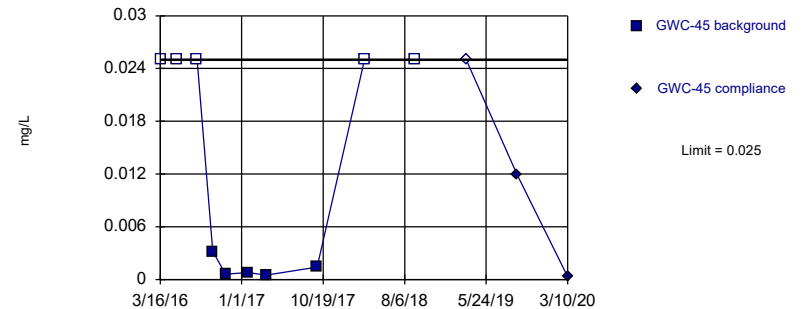


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.025	
5/16/2016	<0.025	
7/22/2016	<0.025	
9/19/2016	0.003 (J)	
11/3/2016	<0.025	
1/17/2017	<0.025	
3/27/2017	<0.025	
9/26/2017	<0.025	
3/14/2018	<0.025	
9/14/2018	<0.025	
3/14/2019		<0.025
9/10/2019		<0.025
3/6/2020		0.00019 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.025	
5/13/2016	<0.025	
7/19/2016	<0.025	
9/16/2016	<0.025	
11/2/2016	<0.025	
1/18/2017	<0.025	
3/28/2017	<0.025 (*)	
9/22/2017	0.0004 (J)	
3/14/2018	<0.025	
9/12/2018	<0.025	
3/13/2019		<0.025
9/11/2019		0.00036 (J)
3/9/2020		0.00035 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.025	
5/16/2016	<0.025	
7/25/2016	0.0005 (J)	
9/19/2016	<0.025	
11/3/2016	<0.025	
1/19/2017	<0.025	
3/28/2017	<0.025 (*)	
9/26/2017	0.0006 (J)	
3/15/2018	<0.025	
9/12/2018	<0.025	
3/14/2019		<0.025
9/11/2019		0.00043 (J)
3/10/2020		0.00067 (J)

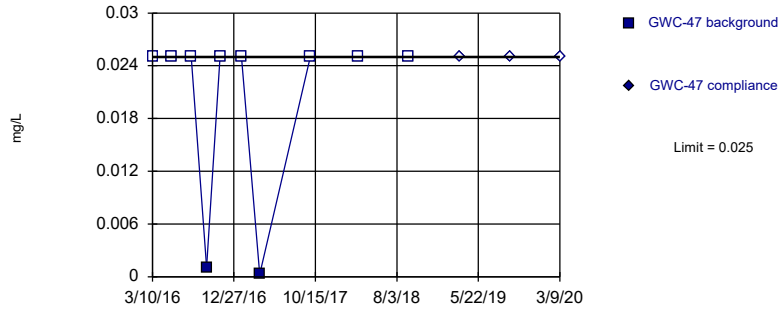
Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.025	
5/16/2016	<0.025	
7/25/2016	<0.025	
9/19/2016	0.0032 (J)	
11/4/2016	0.0006 (J)	
1/23/2017	0.0008 (J)	
3/29/2017	0.0005 (J)	
9/27/2017	0.0014 (J)	
3/15/2018	<0.025	
9/13/2018	<0.025	
3/14/2019		<0.025
9/11/2019		0.012 (J)
3/10/2020		0.00031 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

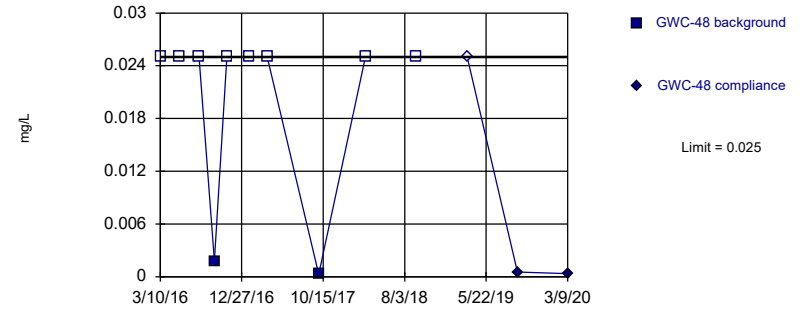


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

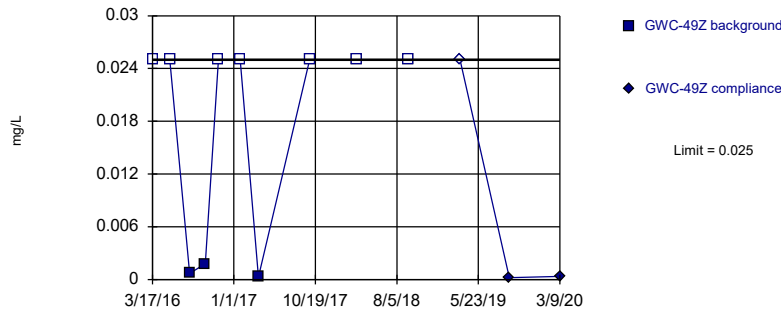


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

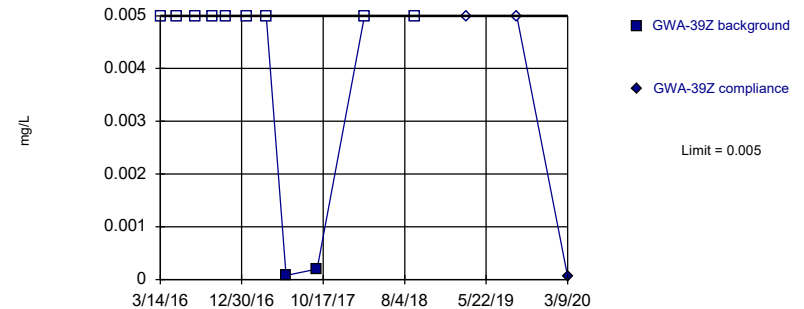


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.025	
5/18/2016	<0.025	
7/27/2016	<0.025	
9/20/2016	0.0011 (J)	
11/7/2016	<0.025	
1/23/2017	<0.025	
3/29/2017	0.0003 (J)	
9/27/2017	<0.025	
3/15/2018	<0.025	
9/13/2018	<0.025	
3/15/2019		<0.025
9/12/2019		<0.025
3/9/2020		<0.025

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.025	
5/17/2016	<0.025	
7/27/2016	<0.025	
9/20/2016	0.0018 (J)	
11/4/2016	<0.025	
1/23/2017	<0.025	
3/28/2017	<0.025 (*)	
9/29/2017	0.0003 (J)	
3/15/2018	<0.025	
9/13/2018	<0.025	
3/15/2019		<0.025
9/11/2019		0.000535 (JD)
3/9/2020		0.00035 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.025	
5/18/2016	<0.025	
7/28/2016	0.0007 (J)	
9/21/2016	0.0018 (J)	
11/7/2016	<0.025	
1/24/2017	<0.025	
3/30/2017	0.0003 (J)	
9/29/2017	<0.025	
3/15/2018	<0.025	
9/14/2018	<0.025	
3/19/2019		<0.025
9/11/2019		0.00021 (J)
3/9/2020		0.00035 (J)

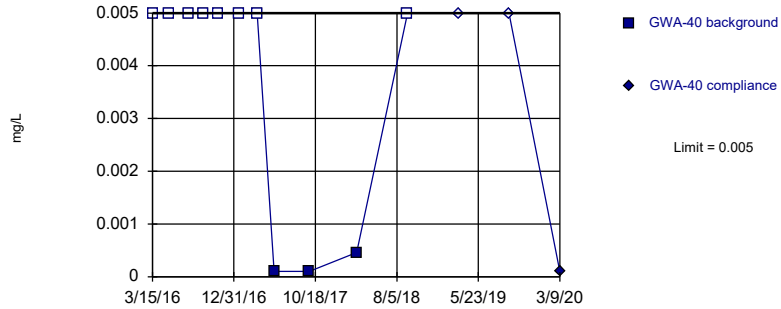
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.005	
5/11/2016	<0.005	
7/19/2016	<0.005	
9/15/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	<0.005 (*)	
6/7/2017	8E-05 (J)	
9/26/2017	0.0002 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/15/2019		<0.005
9/9/2019		<0.005
3/9/2020		5.5E-05 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

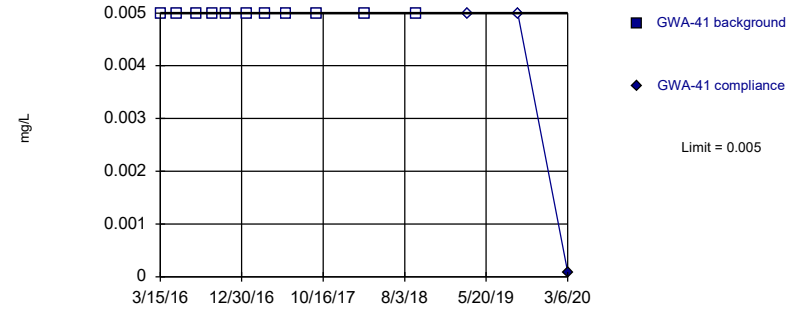


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

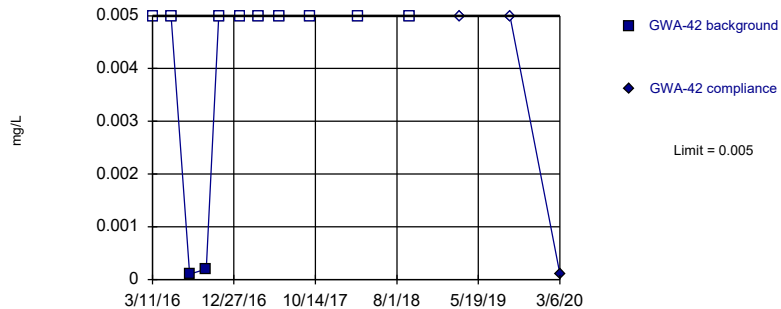


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

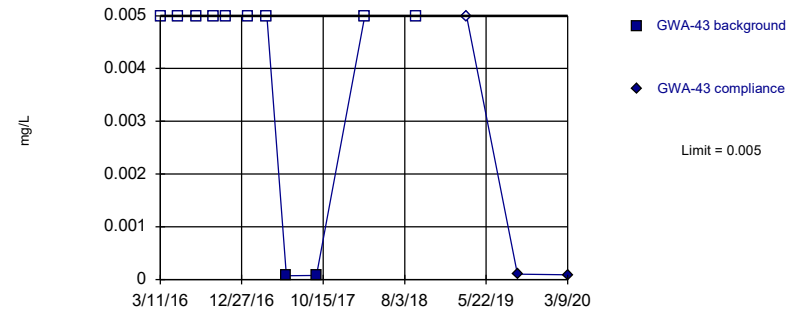


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.005	
5/11/2016	<0.005	
7/21/2016	<0.005	
9/15/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/24/2017	<0.005 (*)	
5/24/2017	0.0001 (J)	
9/26/2017	0.0001 (J)	
3/14/2018	0.00046 (J)	
9/12/2018	<0.005	
3/13/2019		<0.005
9/9/2019		<0.005
3/9/2020		9.5E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.005	
5/12/2016	<0.005	
7/20/2016	<0.005	
9/15/2016	<0.005	
11/3/2016	<0.005	
1/18/2017	<0.005	
3/24/2017	<0.005	
6/6/2017	<0.005	
9/25/2017	<0.005	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/10/2019		<0.005 (D)
3/6/2020		9.1E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.005	
5/16/2016	<0.005	
7/22/2016	0.0001 (J)	
9/19/2016	0.0002 (J)	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<0.005	
6/7/2017	<0.005	
9/26/2017	<0.005	
3/14/2018	<0.005	
9/14/2018	<0.005	
3/14/2019		<0.005
9/10/2019		<0.005
3/6/2020		0.00011 (J)

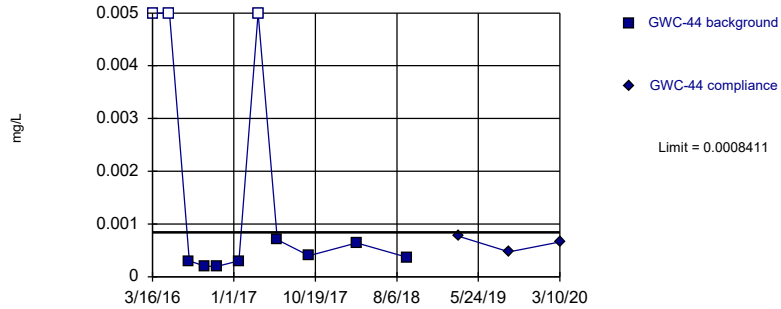
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.005	
5/13/2016	<0.005	
7/19/2016	<0.005	
9/16/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	<0.005	
6/6/2017	7E-05 (J)	
9/22/2017	8E-05 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		0.0001 (J)
3/9/2020		9.1E-05 (J)

Within Limit

Prediction Limit
Intrawell Parametric

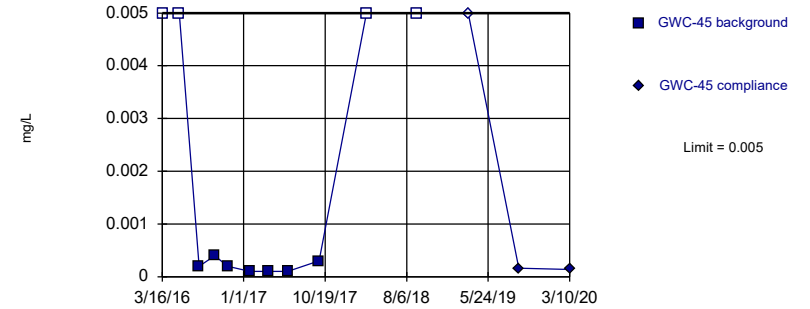


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.001, Std. Dev.=0.4762, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7955, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

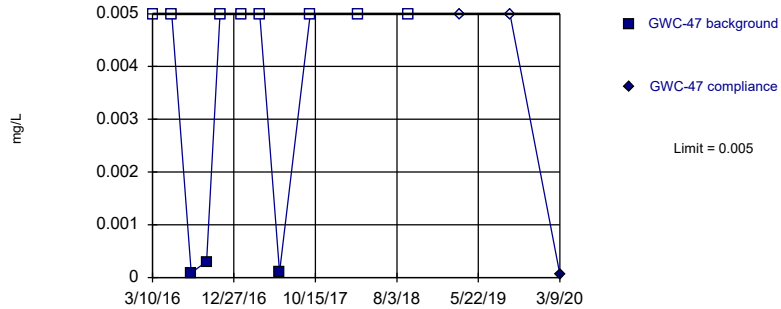


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

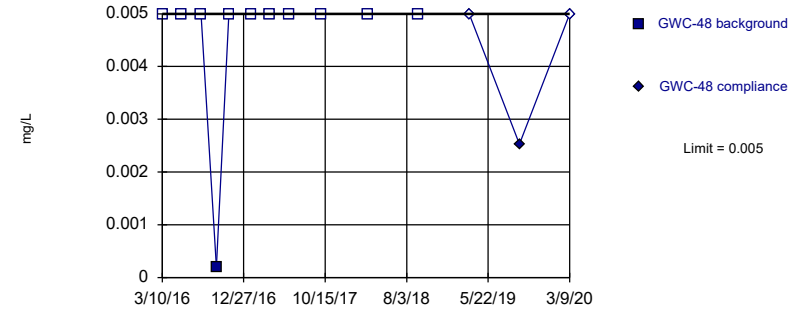


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.005	
5/16/2016	<0.005	
7/25/2016	0.0003 (J)	
9/19/2016	0.0002 (J)	
11/3/2016	0.0002 (J)	
1/19/2017	0.0003 (J)	
3/28/2017	<0.005 (*)	
6/5/2017	0.0007 (J)	
9/26/2017	0.0004 (J)	
3/15/2018	0.00064 (J)	
9/12/2018	0.00037 (J)	
3/14/2019		0.00077 (J)
9/11/2019		0.00047 (J)
3/10/2020		0.00066 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.005	
5/16/2016	<0.005	
7/25/2016	0.0002 (J)	
9/19/2016	0.0004 (J)	
11/4/2016	0.0002 (J)	
1/23/2017	0.0001 (J)	
3/29/2017	0.0001 (J)	
6/7/2017	0.0001 (J)	
9/27/2017	0.0003 (J)	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		0.00016 (J)
3/10/2020		0.00014 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.005	
5/18/2016	<0.005	
7/27/2016	9E-05 (J)	
9/20/2016	0.0003 (J)	
11/7/2016	<0.005	
1/23/2017	<0.005	
3/29/2017	<0.005	
6/8/2017	0.0001 (J)	
9/27/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/15/2019		<0.005
9/12/2019		<0.005
3/9/2020		5.8E-05 (J)

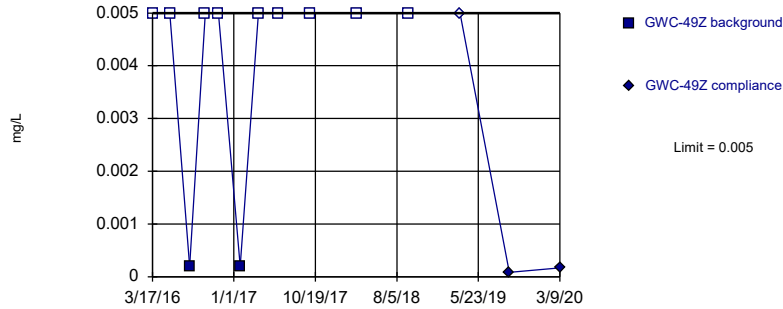
Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.005	
5/17/2016	<0.005	
7/27/2016	<0.005	
9/20/2016	0.0002 (J)	
11/4/2016	<0.005	
1/23/2017	<0.005	
3/28/2017	<0.005 (*)	
6/8/2017	<0.005	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/15/2019		<0.005
9/11/2019		0.002529 (D)
3/9/2020		<0.005

Within Limit

Prediction Limit
Intrawell Non-parametric

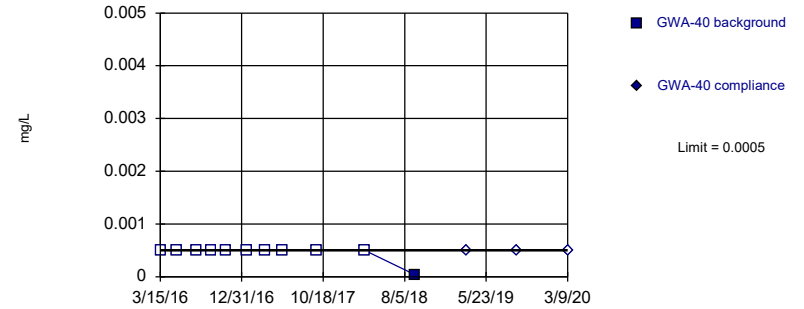


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

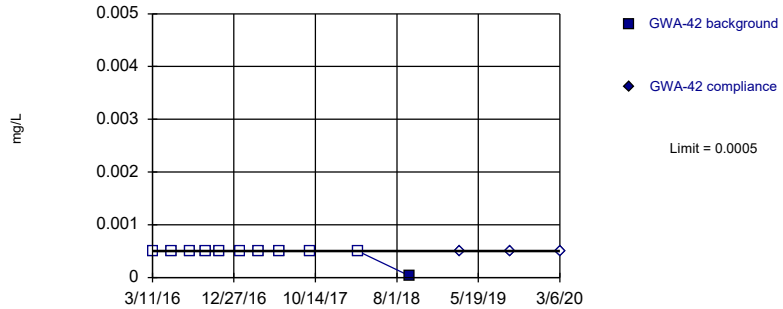


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

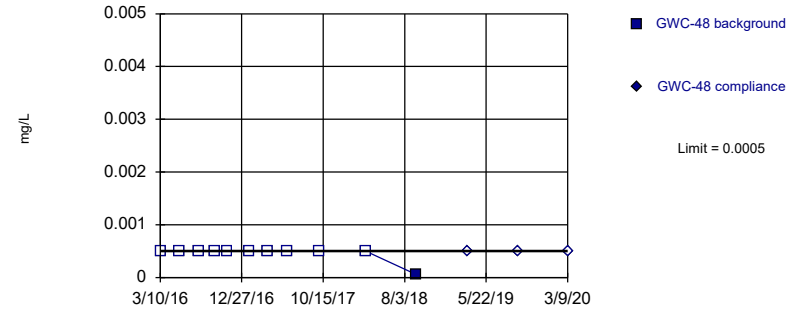


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.005	
5/18/2016	<0.005	
7/28/2016	0.0002 (J)	
9/21/2016	<0.005 (*)	
11/7/2016	<0.005	
1/24/2017	0.0002 (J)	
3/30/2017	<0.005	
6/9/2017	<0.005	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/11/2019		8.2E-05 (J)
3/9/2020		0.00017 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.0005	
5/11/2016	<0.0005	
7/21/2016	<0.0005	
9/15/2016	<0.0005	
11/3/2016	<0.0005	
1/17/2017	<0.0005	
3/24/2017	<0.0005	
5/24/2017	<0.0005	
9/26/2017	<0.0005	
3/14/2018	<0.0005	
9/12/2018	3.8E-05 (J)	
3/13/2019		<0.0005
9/9/2019		<0.0005
3/9/2020		<0.0005

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.0005	
5/16/2016	<0.0005	
7/22/2016	<0.0005	
9/19/2016	<0.0005	
11/3/2016	<0.0005	
1/17/2017	<0.0005	
3/27/2017	<0.0005	
6/7/2017	<0.0005	
9/26/2017	<0.0005	
3/14/2018	<0.0005	
9/14/2018	3.8E-05 (J)	
3/14/2019		<0.0005
9/10/2019		<0.0005
3/6/2020		<0.0005

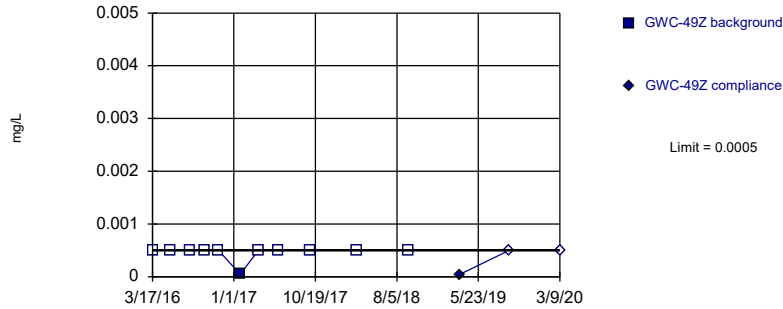
Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.0005	
5/17/2016	<0.0005	
7/27/2016	<0.0005	
9/20/2016	<0.0005	
11/4/2016	<0.0005	
1/23/2017	<0.0005	
3/28/2017	<0.0005	
6/8/2017	<0.0005	
9/29/2017	<0.0005	
3/15/2018	<0.0005	
9/13/2018	6.2E-05 (J)	
3/15/2019		<0.0005
9/11/2019		<0.0005 (D)
3/9/2020		<0.0005

Within Limit

Prediction Limit
Intrawell Non-parametric

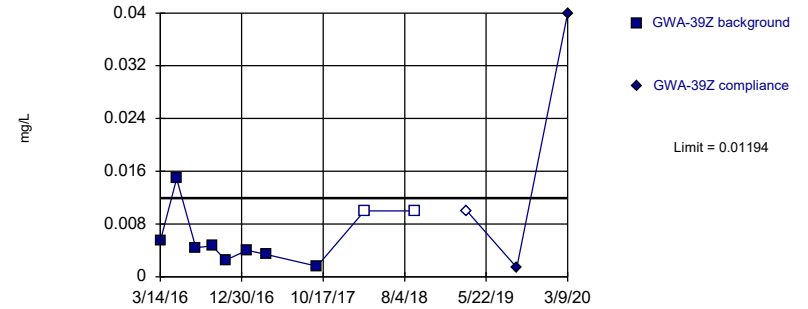


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

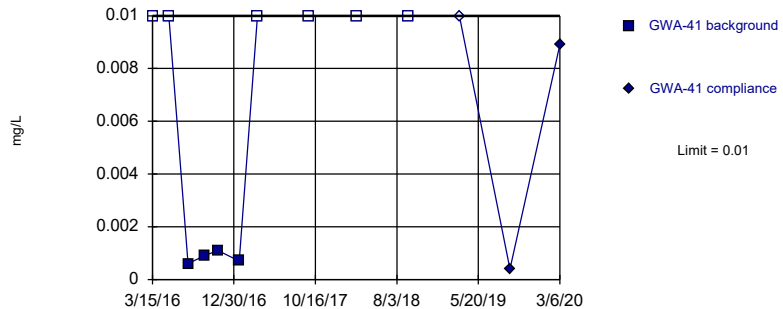


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004838, Std. Dev.=0.00355, n=10, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8664, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

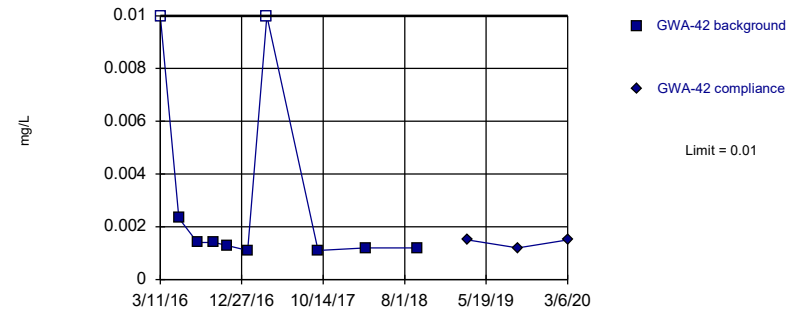


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 20% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.0005	
5/18/2016	<0.0005	
7/28/2016	<0.0005	
9/21/2016	<0.0005	
11/7/2016	<0.0005	
1/24/2017	5E-05 (J)	
3/30/2017	<0.0005 (*)	
6/9/2017	<0.0005	
9/29/2017	<0.0005	
3/15/2018	<0.0005	
9/14/2018	<0.0005	
3/19/2019		4.5E-05 (J)
9/11/2019		<0.0005
3/9/2020		<0.0005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	0.00544 (J)	
5/11/2016	0.0149	
7/19/2016	0.0044 (J)	
9/15/2016	0.0047 (J)	
11/2/2016	0.0025 (J)	
1/18/2017	0.004 (J)	
3/28/2017	0.0034 (J)	
9/26/2017	0.0016 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/15/2019		<0.01
9/9/2019		0.0014 (J)
3/9/2020		0.04

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.01	
5/12/2016	<0.01	
7/20/2016	0.0006 (J)	
9/15/2016	0.0009 (J)	
11/3/2016	0.0011 (J)	
1/18/2017	0.0007 (J)	
3/24/2017	<0.01 (*)	
9/25/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/10/2019		0.0004 (JD)
3/6/2020		0.0089 (J)

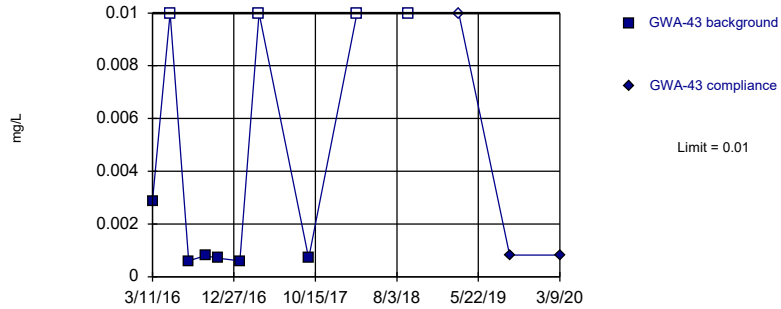
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.01	
5/16/2016	0.00233 (J)	
7/22/2016	0.0014 (J)	
9/19/2016	0.0014 (J)	
11/3/2016	0.0013 (J)	
1/17/2017	0.0011 (J)	
3/27/2017	<0.01 (*)	
9/26/2017	0.0011 (J)	
3/14/2018	0.0012 (J)	
9/14/2018	0.0012 (J)	
3/14/2019		0.0015 (J)
9/10/2019		0.0012 (J)
3/6/2020		0.0015 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

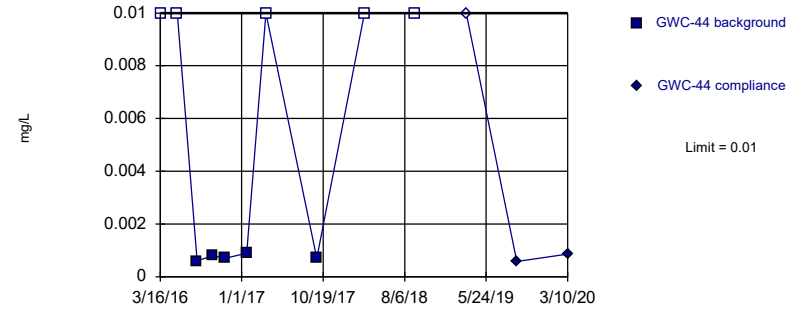


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 40% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

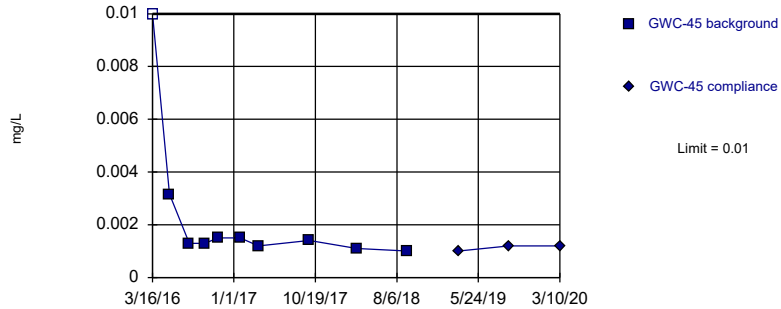


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

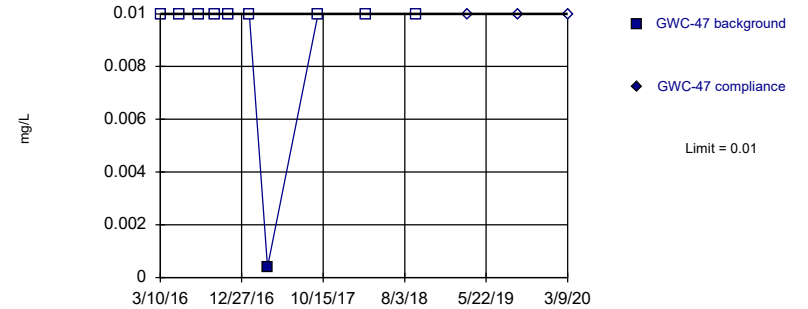


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 10% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.00288 (J)	
5/13/2016	<0.01	
7/19/2016	0.0006 (J)	
9/16/2016	0.0008 (J)	
11/2/2016	0.0007 (J)	
1/18/2017	0.0006 (J)	
3/28/2017	<0.01 (*)	
9/22/2017	0.0007 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		0.00082 (J)
3/9/2020		0.00082 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	0.0006 (J)	
9/19/2016	0.0008 (J)	
11/3/2016	0.0007 (J)	
1/19/2017	0.0009 (J)	
3/28/2017	<0.01 (*)	
9/26/2017	0.0007 (J)	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/11/2019		0.00058 (J)
3/10/2020		0.00086 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.01	
5/16/2016	0.00316 (J)	
7/25/2016	0.0013 (J)	
9/19/2016	0.0013 (J)	
11/4/2016	0.0015 (J)	
1/23/2017	0.0015 (J)	
3/29/2017	0.0012 (J)	
9/27/2017	0.0014 (J)	
3/15/2018	0.0011 (J)	
9/13/2018	0.001 (J)	
3/14/2019		0.001 (J)
9/11/2019		0.0012 (J)
3/10/2020		0.0012 (J)

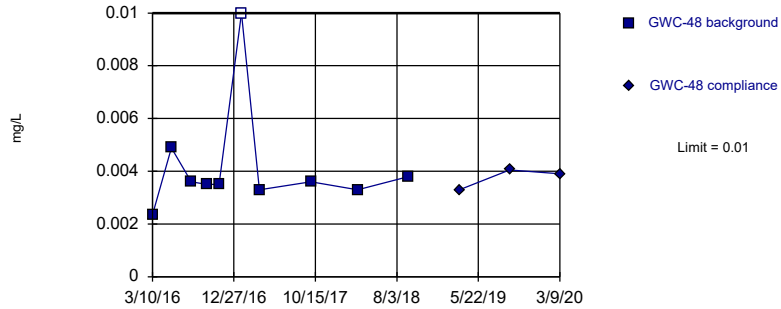
Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.01	
5/18/2016	<0.01	
7/27/2016	<0.01	
9/20/2016	<0.01	
11/7/2016	<0.01	
1/23/2017	<0.01	
3/29/2017	0.0004 (J)	
9/27/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/15/2019		<0.01
9/12/2019		<0.01
3/9/2020		<0.01

Within Limit

Prediction Limit
Intrawell Non-parametric

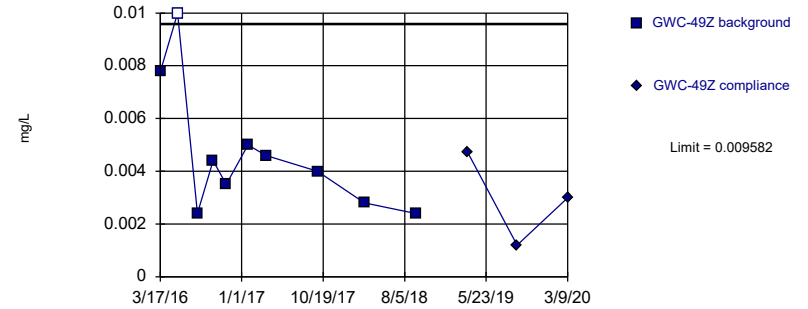


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 10% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

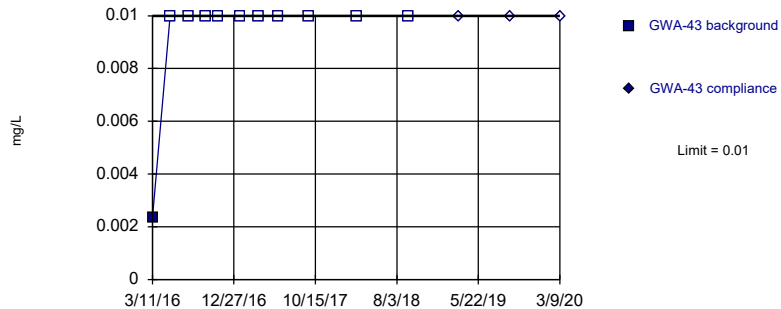


Background Data Summary: Mean=0.004688, Std. Dev.=0.002447, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8465, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Nickel Analysis Run 4/17/2020 7:06 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

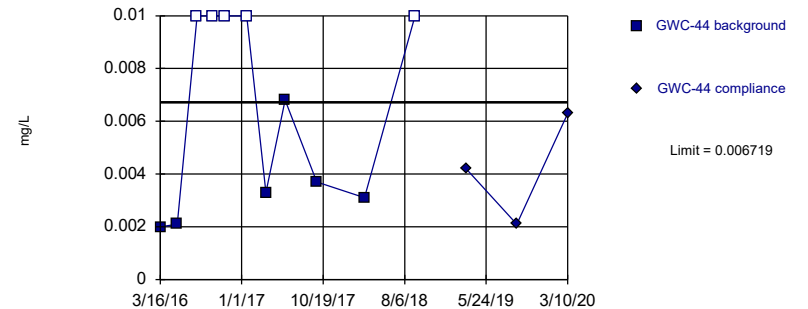


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05783, Std. Dev.=0.01249, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7929, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Selenium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.00235 (J)	
5/17/2016	0.00489 (J)	
7/27/2016	0.0036 (J)	
9/20/2016	0.0035 (J)	
11/4/2016	0.0035 (J)	
1/23/2017	<0.01	
3/28/2017	0.0033 (J)	
9/29/2017	0.0036 (J)	
3/15/2018	0.0033 (J)	
9/13/2018	0.0038 (J)	
3/15/2019		0.0033 (J)
9/11/2019		0.00405 (JD)
3/9/2020		0.0039 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	0.00778 (J)	
5/18/2016	<0.01	
7/28/2016	0.0024 (J)	
9/21/2016	0.0044 (J)	
11/7/2016	0.0035 (J)	
1/24/2017	0.005 (J)	
3/30/2017	0.0046 (J)	
9/29/2017	0.004 (J)	
3/15/2018	0.0028 (J)	
9/14/2018	0.0024 (J)	
3/19/2019		0.0047 (J)
9/11/2019		0.0012 (J)
3/9/2020		0.003 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.00236 (J)	
5/13/2016	<0.01	
7/19/2016	<0.01	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	<0.01	
3/28/2017	<0.01	
6/6/2017	<0.01	
9/22/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		<0.01
3/9/2020		<0.01

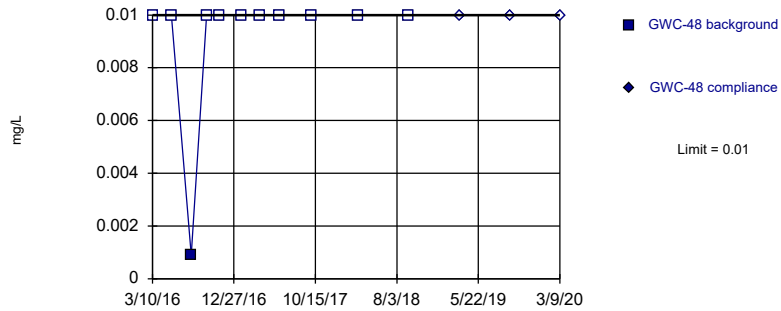
Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	0.002 (J)	
5/16/2016	0.0021 (J)	
7/25/2016	<0.01	
9/19/2016	<0.01	
11/3/2016	<0.01	
1/19/2017	<0.01	
3/28/2017	0.0033 (J)	
6/5/2017	0.0068 (J)	
9/26/2017	0.0037 (J)	
3/15/2018	0.0031 (J)	
9/12/2018	<0.01	
3/14/2019		0.0042 (J)
9/11/2019		0.0021 (J)
3/10/2020		0.0063 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

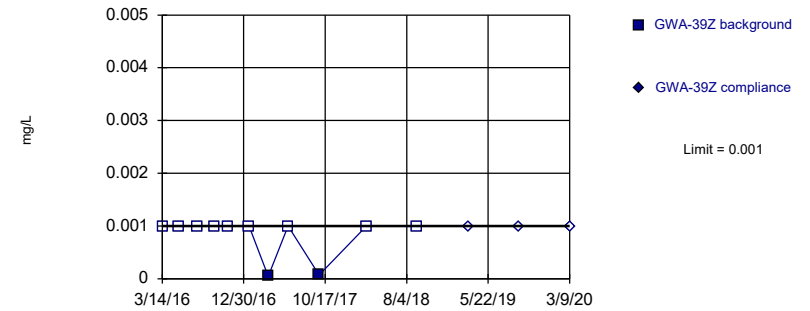


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

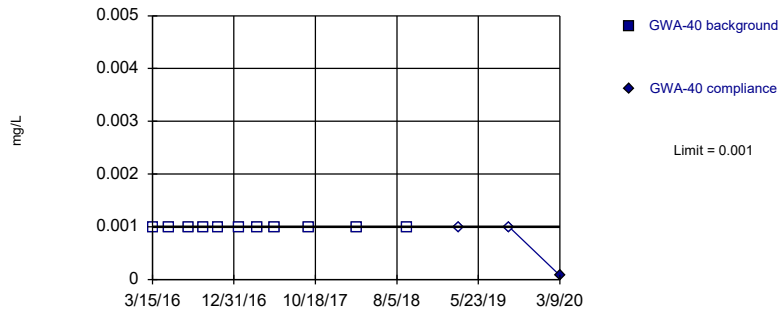


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

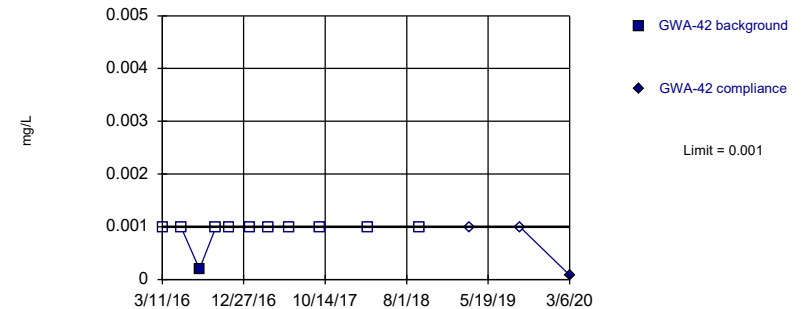


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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 = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.01	
5/17/2016	<0.01	
7/27/2016	0.0009 (J)	
9/20/2016	<0.01	
11/4/2016	<0.01	
1/23/2017	<0.01	
3/28/2017	<0.01	
6/8/2017	<0.01	
9/29/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/15/2019		<0.01
9/11/2019		<0.01 (D)
3/9/2020		<0.01

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.001	
5/11/2016	<0.001	
7/19/2016	<0.001 (*)	
9/15/2016	<0.001	
11/2/2016	<0.001	
1/18/2017	<0.001	
3/28/2017	5E-05 (J)	
6/7/2017	<0.001	
9/26/2017	7E-05 (J)	
3/14/2018	<0.001	
9/12/2018	<0.001	
3/15/2019		<0.001
9/9/2019		<0.001
3/9/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.001	
5/11/2016	<0.001	
7/21/2016	<0.001	
9/15/2016	<0.001	
11/3/2016	<0.001	
1/17/2017	<0.001	
3/24/2017	<0.001	
5/24/2017	<0.001	
9/26/2017	<0.001	
3/14/2018	<0.001	
9/12/2018	<0.001	
3/13/2019		<0.001
9/9/2019		<0.001
3/9/2020		7.8E-05 (J)

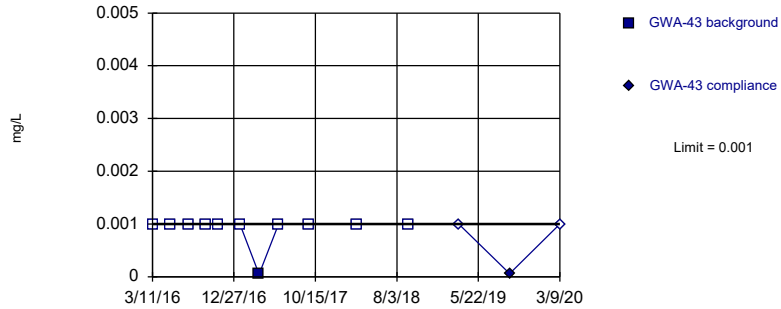
Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.001	
5/16/2016	<0.001	
7/22/2016	0.0002 (J)	
9/19/2016	<0.001	
11/3/2016	<0.001	
1/17/2017	<0.001	
3/27/2017	<0.001	
6/7/2017	<0.001	
9/26/2017	<0.001	
3/14/2018	<0.001	
9/14/2018	<0.001	
3/14/2019		<0.001
9/10/2019		<0.001
3/6/2020		8.6E-05 (J)

Within Limit

Prediction Limit Intrawell Non-parametric

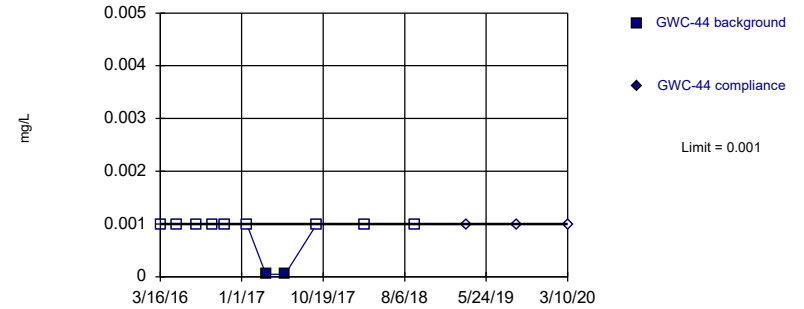


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

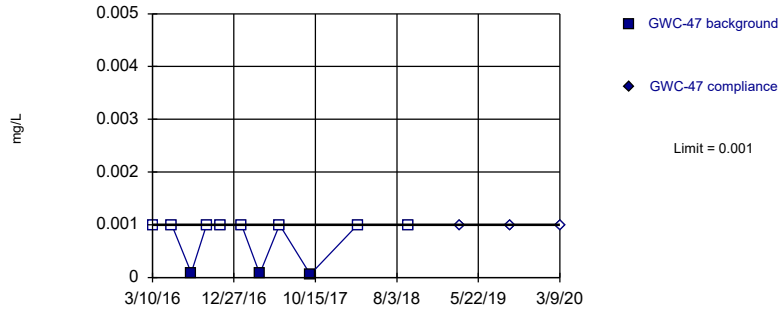


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

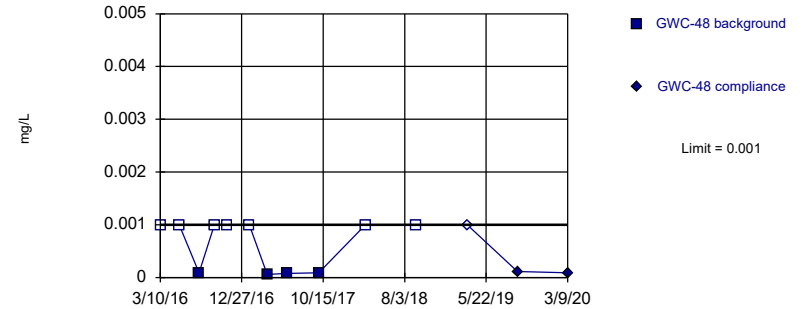


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	<0.001	
5/13/2016	<0.001	
7/19/2016	<0.001 (*)	
9/16/2016	<0.001	
11/2/2016	<0.001	
1/18/2017	<0.001	
3/28/2017	5E-05 (J)	
6/6/2017	<0.001	
9/22/2017	<0.001	
3/14/2018	<0.001	
9/12/2018	<0.001	
3/13/2019		<0.001
9/11/2019		6.2E-05 (J)
3/9/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.001	
5/16/2016	<0.001	
7/25/2016	<0.001	
9/19/2016	<0.001	
11/3/2016	<0.001	
1/19/2017	<0.001	
3/28/2017	5E-05 (J)	
6/5/2017	5E-05 (J)	
9/26/2017	<0.001	
3/15/2018	<0.001	
9/12/2018	<0.001	
3/14/2019		<0.001
9/11/2019		<0.001
3/10/2020		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:09 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	<0.001	
5/18/2016	<0.001	
7/27/2016	9E-05 (J)	
9/20/2016	<0.001	
11/7/2016	<0.001	
1/23/2017	<0.001	
3/29/2017	7E-05 (J)	
6/8/2017	<0.001	
9/27/2017	6E-05 (J)	
3/15/2018	<0.001	
9/13/2018	<0.001	
3/15/2019		<0.001
9/12/2019		<0.001
3/9/2020		<0.001

Prediction Limit

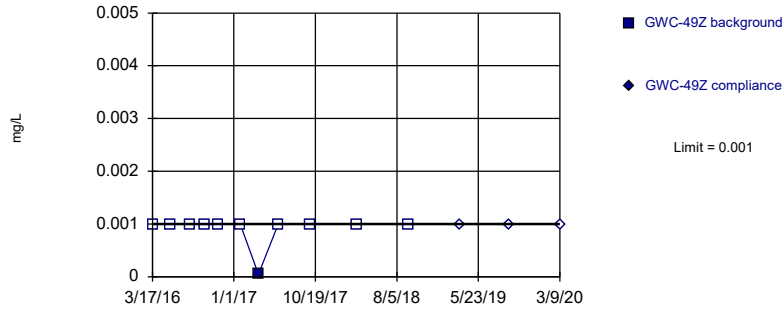
Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	<0.001	
5/17/2016	<0.001	
7/27/2016	9E-05 (J)	
9/20/2016	<0.001	
11/4/2016	<0.001	
1/23/2017	<0.001	
3/28/2017	6E-05 (J)	
6/8/2017	8E-05 (J)	
9/29/2017	9E-05 (J)	
3/15/2018	<0.001	
9/13/2018	<0.001	
3/15/2019		<0.001
9/11/2019		0.000115 (JD)
3/9/2020		9E-05 (J)

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



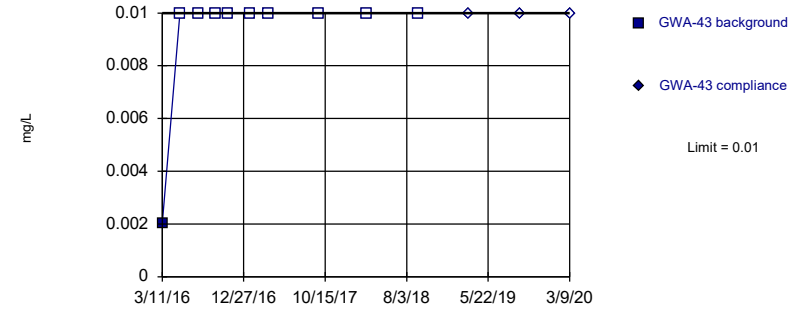
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



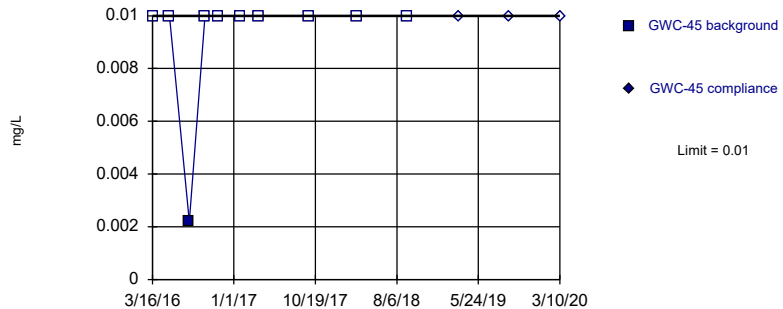
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



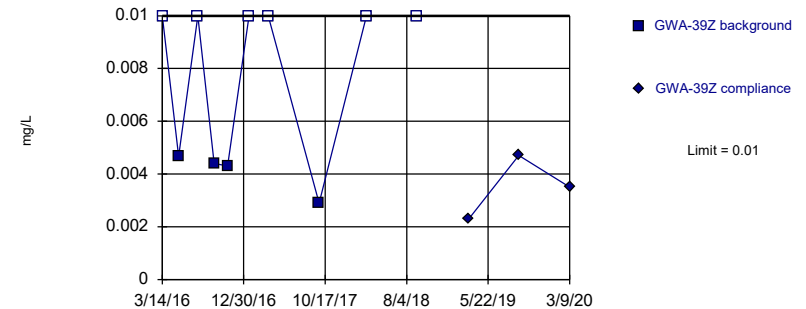
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sanitas™ v.9.6.25f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.001	
5/18/2016	<0.001	
7/28/2016	<0.001	
9/21/2016	<0.001	
11/7/2016	<0.001	
1/24/2017	<0.001	
3/30/2017	5E-05 (J)	
6/9/2017	<0.001	
9/29/2017	<0.001	
3/15/2018	<0.001	
9/14/2018	<0.001	
3/19/2019		<0.001
9/11/2019		<0.001
3/9/2020		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.00204 (J)	
5/13/2016	<0.01	
7/19/2016	<0.01	
9/16/2016	<0.01	
11/2/2016	<0.01	
1/18/2017	<0.01	
3/28/2017	<0.01	
9/22/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/11/2019		<0.01
3/9/2020		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<0.01	
5/16/2016	<0.01	
7/25/2016	0.0022 (J)	
9/19/2016	<0.01	
11/4/2016	<0.01	
1/23/2017	<0.01	
3/29/2017	<0.01	
9/27/2017	<0.01	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/14/2019		<0.01
9/11/2019		<0.01
3/10/2020		<0.01

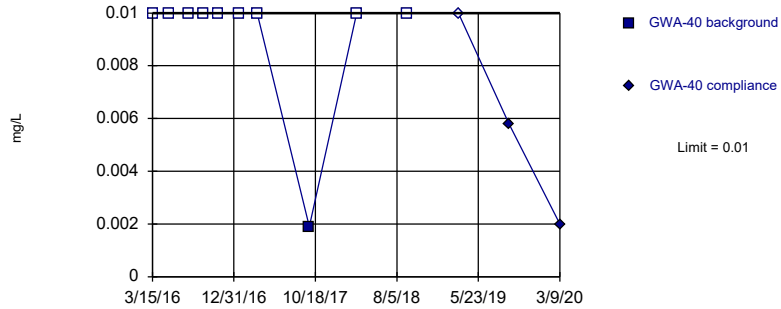
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.01	
5/11/2016	0.00467 (J)	
7/19/2016	<0.01 (*)	
9/15/2016	0.0044 (J)	
11/2/2016	0.0043 (J)	
1/18/2017	<0.01 (*)	
3/28/2017	<0.01 (*)	
9/26/2017	0.0029 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/15/2019		0.0023 (J)
9/9/2019		0.0047 (J)
3/9/2020		0.0035 (J)

Within Limit

Prediction Limit
Intrawell Non-parametric

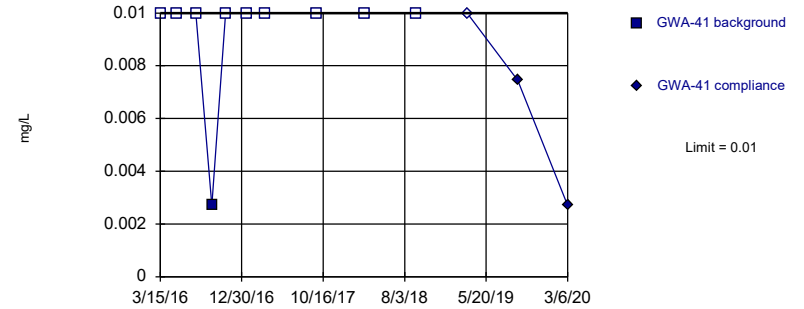


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

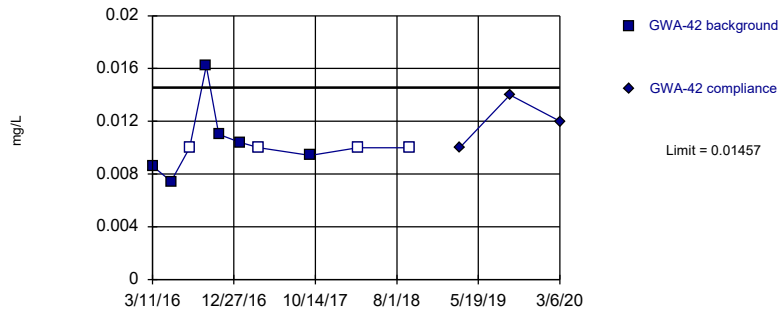


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

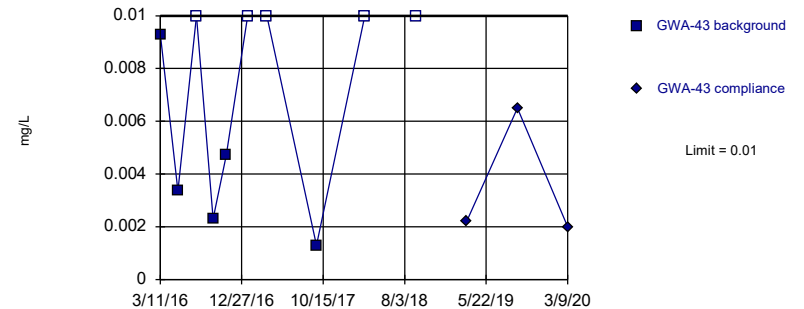


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.09783, Std. Dev.=0.01143, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8081, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 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. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.01	
5/11/2016	<0.01	
7/21/2016	<0.01 (*)	
9/15/2016	<0.01	
11/3/2016	<0.01	
1/17/2017	<0.01	
3/24/2017	<0.01 (*)	
9/26/2017	0.0019 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		<0.01
9/9/2019		0.0058 (J)
3/9/2020		0.002 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.01	
5/12/2016	<0.01	
7/20/2016	<0.01	
9/15/2016	0.0027 (J)	
11/3/2016	<0.01	
1/18/2017	<0.01 (*)	
3/24/2017	<0.01 (*)	
9/25/2017	<0.01	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		<0.01
9/10/2019		0.00745 (JD)
3/6/2020		0.0027 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	0.00862 (J)	
5/16/2016	0.00744 (J)	
7/22/2016	<0.01 (*)	
9/19/2016	0.0162	
11/3/2016	0.011	
1/17/2017	0.0104	
3/27/2017	<0.01 (*)	
9/26/2017	0.0094 (J)	
3/14/2018	<0.01	
9/14/2018	<0.01	
3/14/2019		0.01
9/10/2019		0.014
3/6/2020		0.012

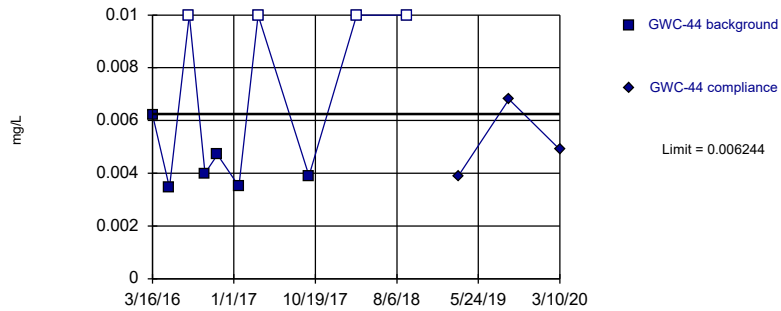
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.0093 (J)	
5/13/2016	0.00336 (J)	
7/19/2016	<0.01 (*)	
9/16/2016	0.0023 (J)	
11/2/2016	0.0047 (J)	
1/18/2017	<0.01	
3/28/2017	<0.01 (*)	
9/22/2017	0.0013 (J)	
3/14/2018	<0.01	
9/12/2018	<0.01	
3/13/2019		0.0022 (J)
9/11/2019		0.0065 (J)
3/9/2020		0.002 (J)

Within Limit

Prediction Limit
Intrawell Parametric

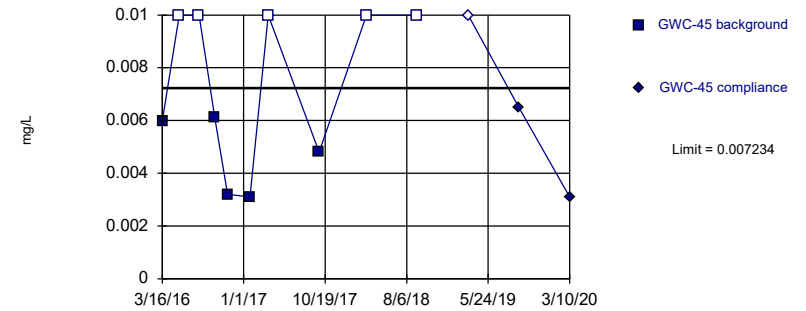


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06517, Std. Dev.=0.006924, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7836, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

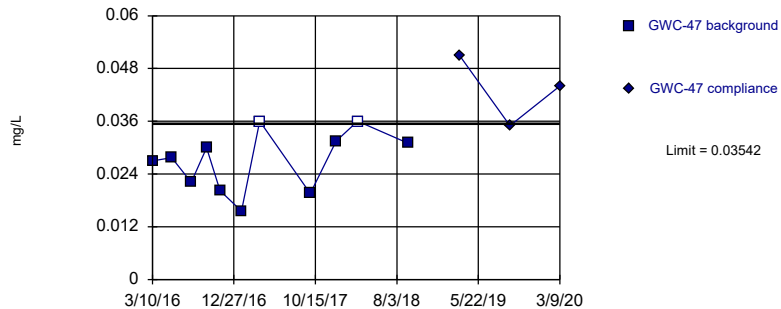


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004638, Std. Dev.=0.001298, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7885, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

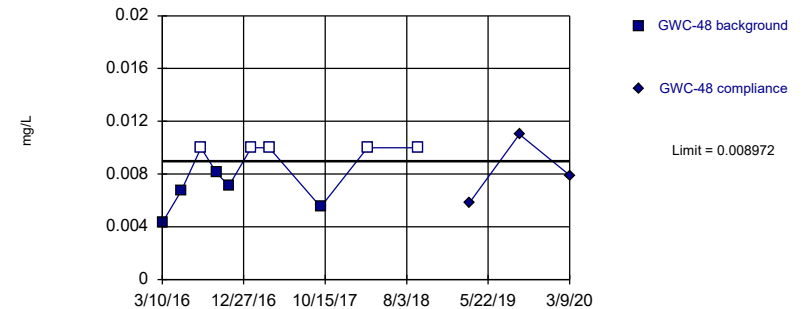


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.02497, Std. Dev.=0.005411, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9437, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006348, Std. Dev.=0.001312, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8225, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	0.00622 (J)	
5/16/2016	0.00345 (J)	
7/25/2016	<0.01 (*)	
9/19/2016	0.004 (J)	
11/3/2016	0.0047 (J)	
1/19/2017	0.0035 (J)	
3/28/2017	<0.01 (*)	
9/26/2017	0.0039 (J)	
3/15/2018	<0.01	
9/12/2018	<0.01	
3/14/2019		0.0039 (J)
9/11/2019		0.0068 (J)
3/10/2020		0.0049 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	0.00599 (J)	
5/16/2016	<0.01	
7/25/2016	<0.01 (*)	
9/19/2016	0.0061 (J)	
11/4/2016	0.0032 (J)	
1/23/2017	0.0031 (J)	
3/29/2017	<0.01 (*)	
9/27/2017	0.0048 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/14/2019		<0.01
9/11/2019		0.0065 (J)
3/10/2020		0.0031 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	0.027	
5/18/2016	0.0277	
7/27/2016	0.0221	
9/20/2016	0.03	
11/7/2016	0.0202	
1/23/2017	0.0156	
3/29/2017	<0.036 (*)	
9/27/2017	0.0196	
12/28/2017	0.0315 (Y)	
3/15/2018	<0.036	
9/13/2018	0.031	
3/15/2019		0.051
9/12/2019		0.035
3/9/2020		0.044

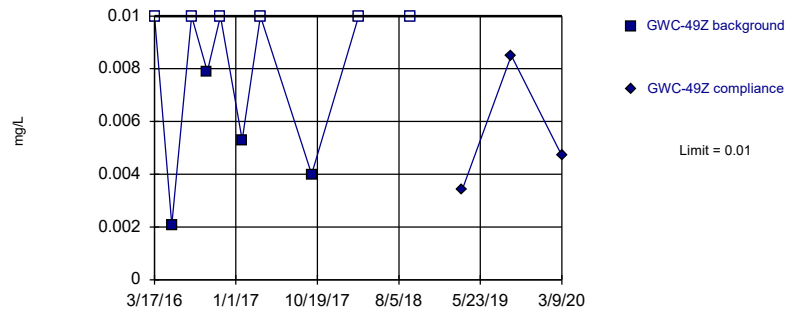
Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	0.00432 (J)	
5/17/2016	0.00672 (J)	
7/27/2016	<0.01 (*)	
9/20/2016	0.0081 (J)	
11/4/2016	0.0071 (J)	
1/23/2017	<0.01	
3/28/2017	<0.01 (*)	
9/29/2017	0.0055 (J)	
3/15/2018	<0.01	
9/13/2018	<0.01	
3/15/2019		0.0058 (J)
9/11/2019		0.011 (D)
3/9/2020		0.0079 (J)

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/17/2020 7:07 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/17/2020 7:10 AM View: Overburden Wells
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.01	
5/18/2016	0.00208 (J)	
7/28/2016	<0.01 (*)	
9/21/2016	0.0079 (J)	
11/7/2016	<0.01 (*)	
1/24/2017	0.0053 (J)	
3/30/2017	<0.01 (*)	
9/29/2017	0.004 (J)	
3/15/2018	<0.01	
9/14/2018	<0.01	
3/19/2019		0.0034 (J)
9/11/2019		0.0085 (J)
3/9/2020		0.0047 (J)

FIGURE F.

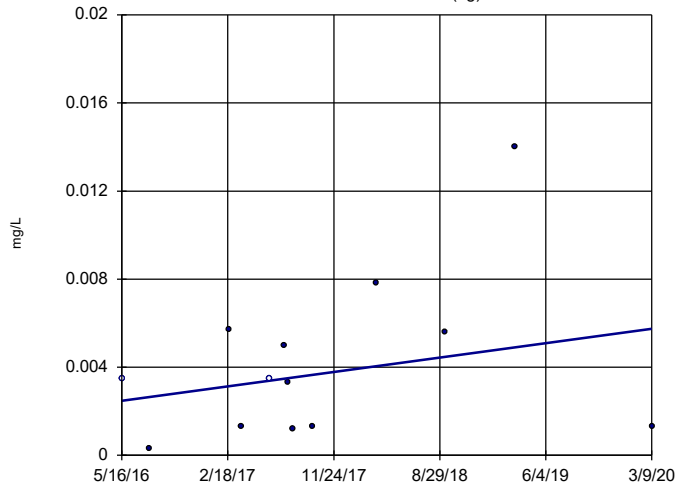
Trend Test Summary - Bedrock State Parameters

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/16/2020, 3:53 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>
Antimony (mg/L)	GWA-39RZ (bg)	0.0008599	14	39	No	13	15.38	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-41R (bg)	0	6	44	No	14	64.29	n/a	n/a	0.02	NP
Antimony (mg/L)	GWA-43R (bg)	0	-31	-44	No	14	64.29	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-39RZ (bg)	0.000514	20	39	No	13	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-41R (bg)	0.002928	18	44	No	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWA-43R (bg)	-0.00008276	-11	-44	No	14	0	n/a	n/a	0.02	NP
Barium (mg/L)	GWC-49R	0.0001077	1	44	No	14	7.143	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-39RZ (bg)	-0.0003074	-10	-23	No	9	44.44	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-41R (bg)	0	-20	-39	No	13	61.54	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-43R (bg)	-0.0007962	-19	-39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-47R	0.0002316	3	39	No	13	15.38	n/a	n/a	0.02	NP

Sen's Slope Estimator

GWA-39RZ (bg)

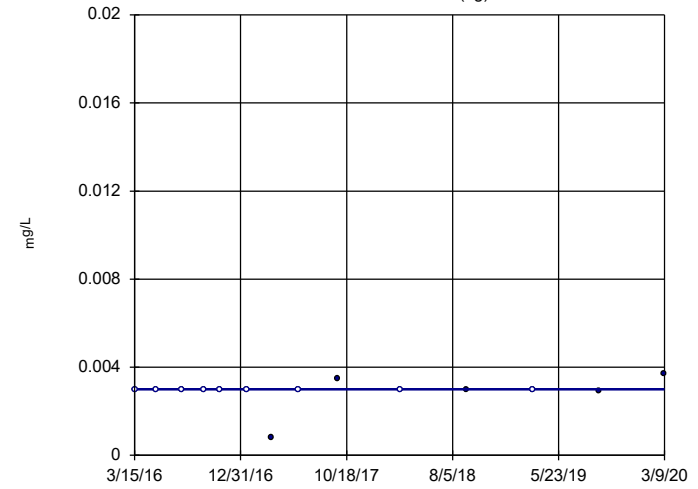


n = 13
 Slope = 0.0008599
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 39
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Antimony Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedanc
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

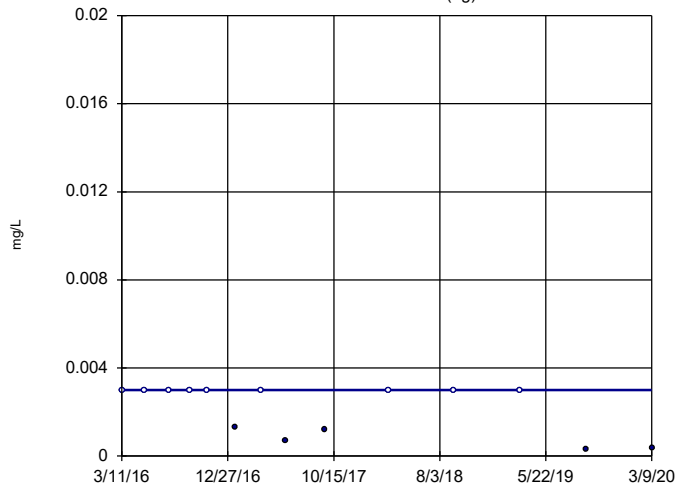


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Antimony Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedanc
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43R (bg)

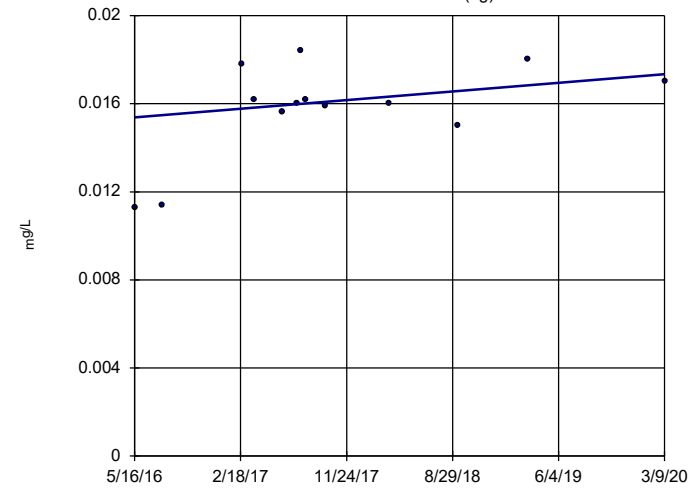


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -31
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Antimony Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedanc
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39RZ (bg)

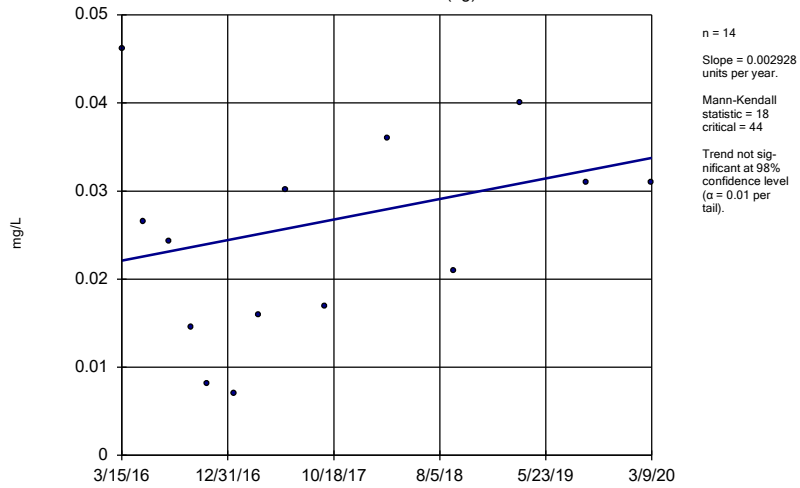


n = 13
 Slope = 0.000514
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 39
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Barium Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

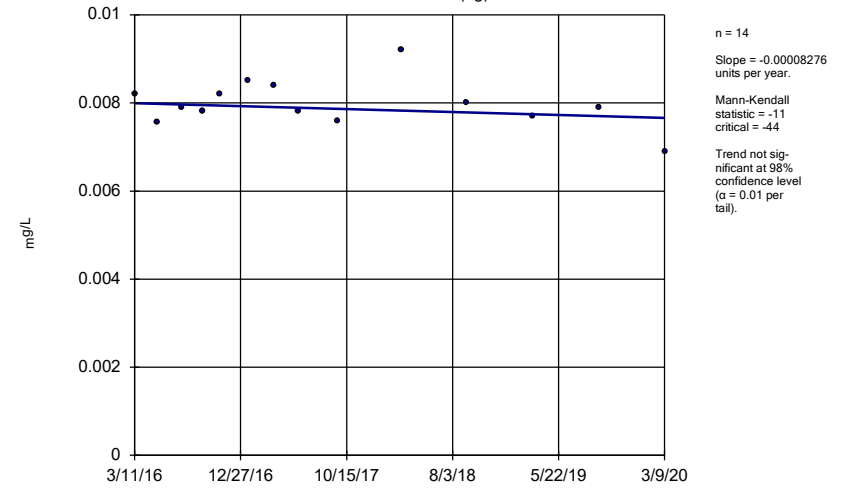
GWA-41R (bg)



Constituent: Barium Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

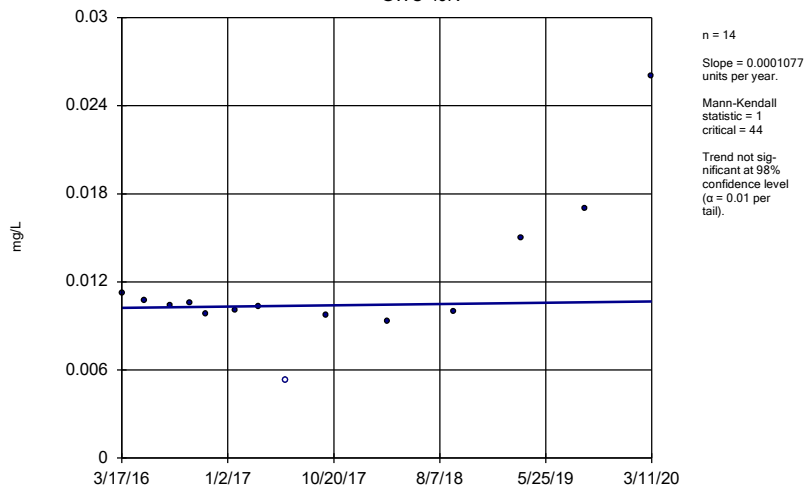
GWA-43R (bg)



Constituent: Barium Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

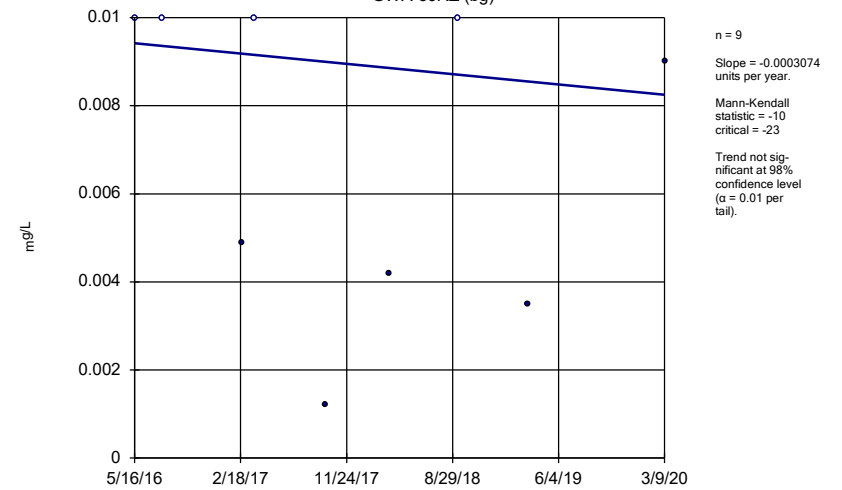
GWC-49R



Constituent: Barium Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

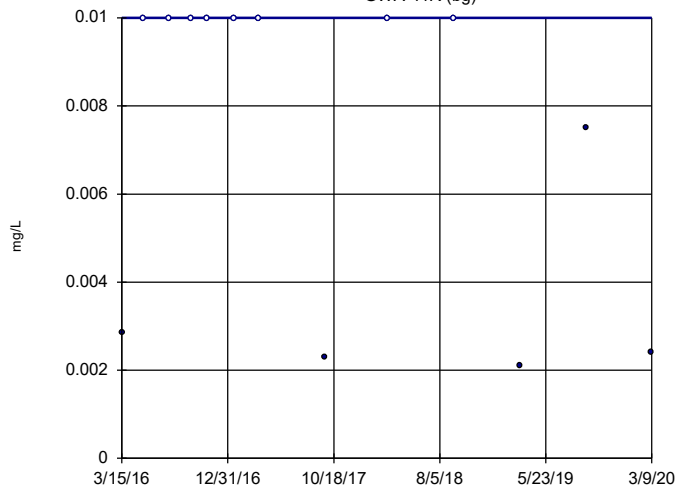
GWA-39RZ (bg)



Constituent: Zinc Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

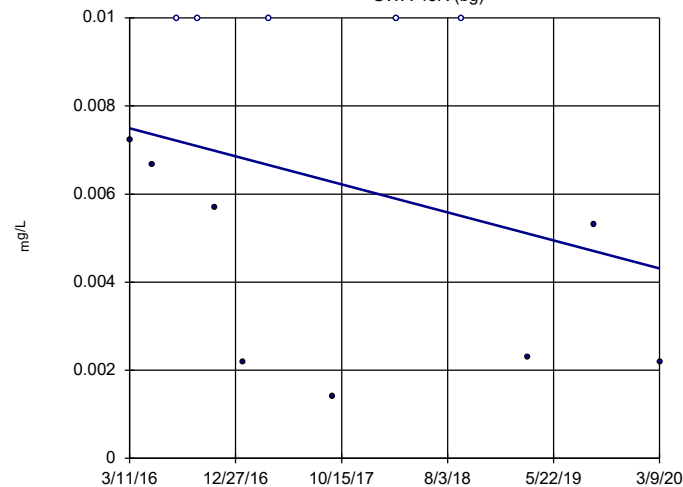


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -39
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Zinc Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43R (bg)

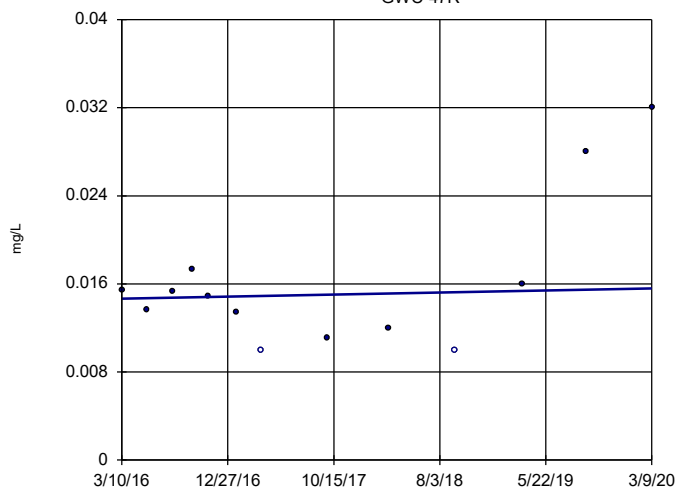


n = 13
 Slope = -0.0007962
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -39
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Zinc Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWC-47R



n = 13
 Slope = 0.0002316
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 39
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Zinc Analysis Run 4/16/2020 3:52 PM View: Trend Tests - Bedrock State PL Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE G.

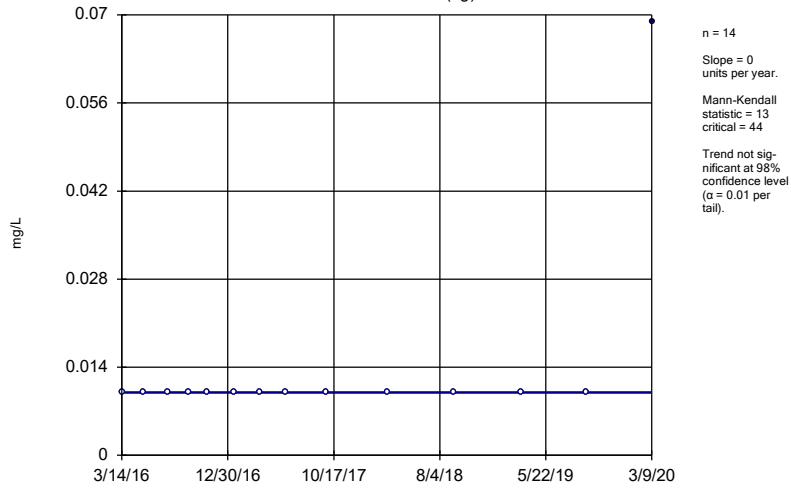
Trend Test Summary - Overburden State Parameters

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/16/2020, 3:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chromium (mg/L)	GWA-39Z (bg)	0	13	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-40 (bg)	0	-16	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-41 (bg)	0	13	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-42 (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	GWA-43 (bg)	0	-24	-44	No	14	71.43	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-39Z (bg)	0	-1	-39	No	13	23.08	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-40 (bg)	0	0	39	No	13	100	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-41 (bg)	0	1	39	No	13	53.85	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-42 (bg)	-0.0000969	-19	-39	No	13	15.38	n/a	n/a	0.02	NP
Nickel (mg/L)	GWA-43 (bg)	0	11	39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-39Z (bg)	-0.000282	-19	-39	No	13	46.15	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-40 (bg)	0	-23	-39	No	13	76.92	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-41 (bg)	0	-16	-39	No	13	76.92	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-42 (bg)	0.0005299	20	39	No	13	30.77	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-43 (bg)	-0.0000201	-10	-39	No	13	38.46	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-47	0.004277	40	44	No	14	14.29	n/a	n/a	0.02	NP

Sen's Slope Estimator

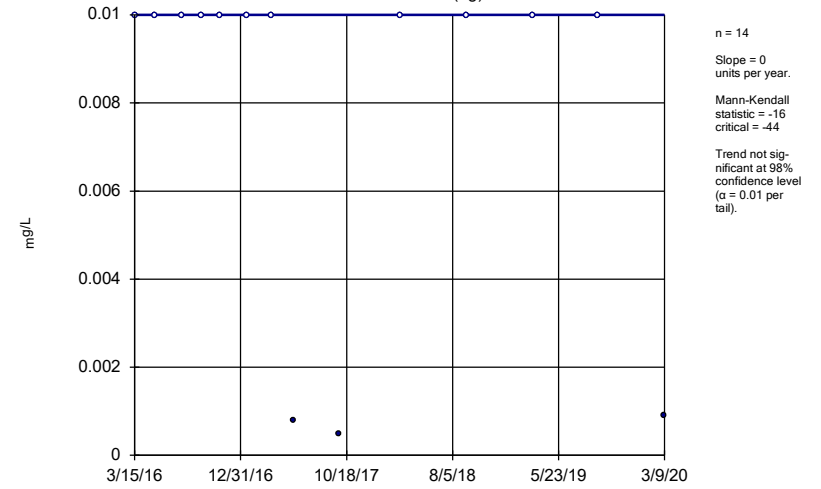
GWA-39Z (bg)



Constituent: Chromium Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

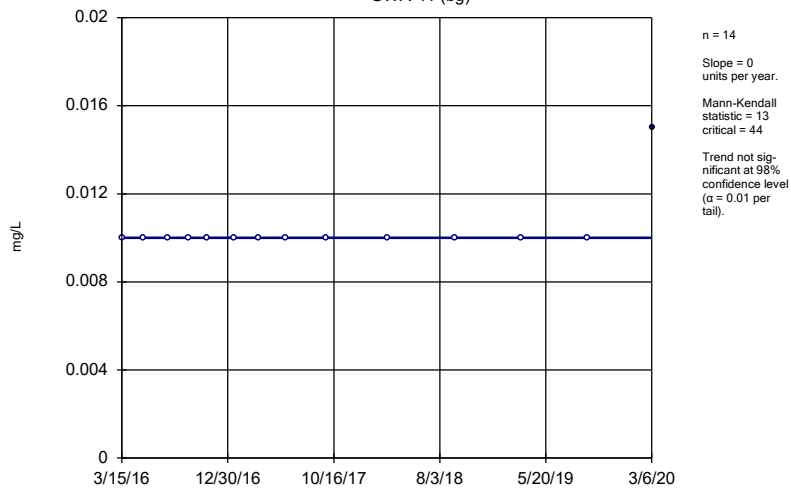
GWA-40 (bg)



Constituent: Chromium Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

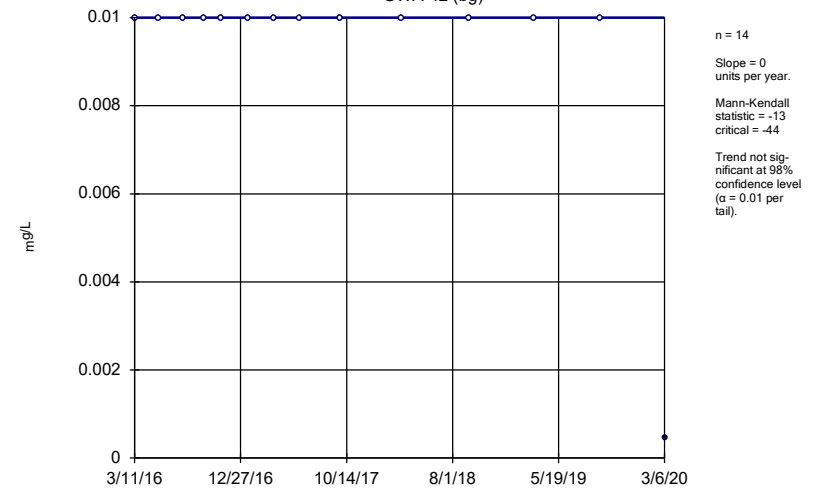
GWA-41 (bg)



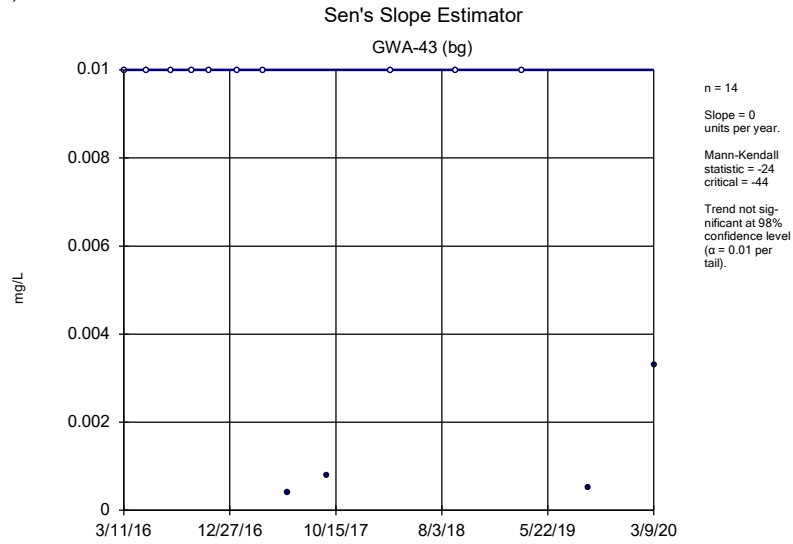
Constituent: Chromium Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

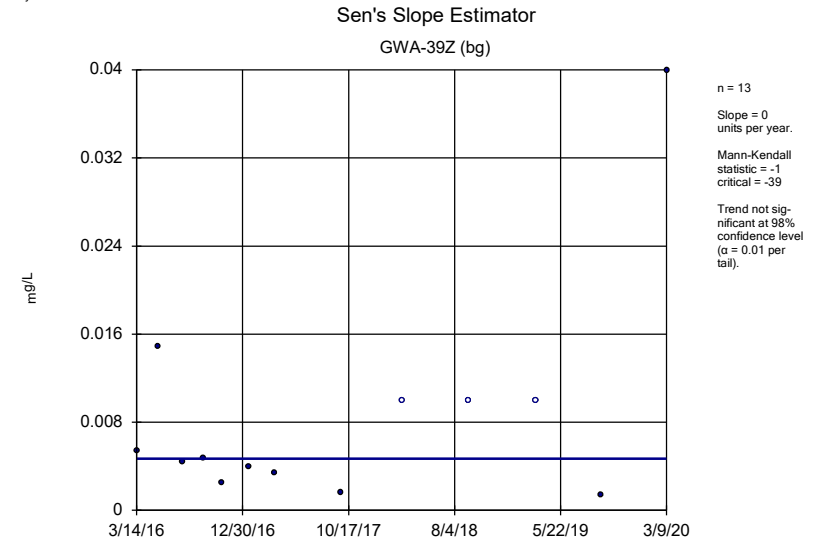
GWA-42 (bg)



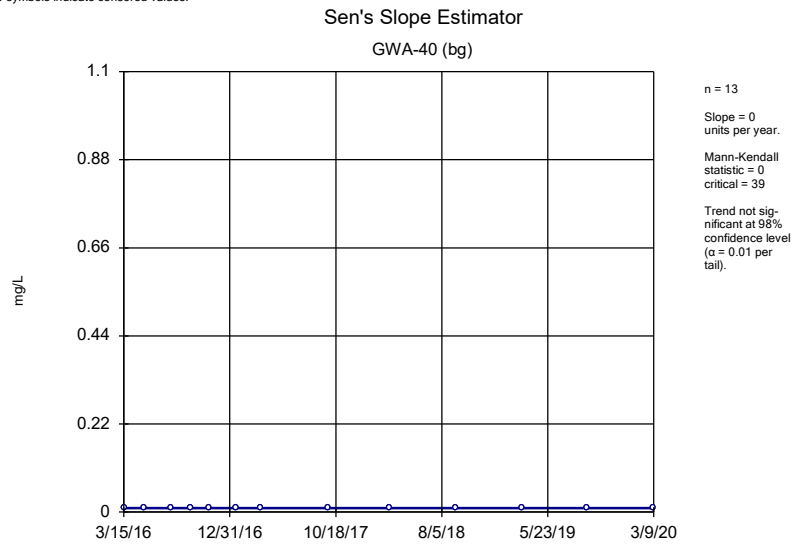
Constituent: Chromium Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



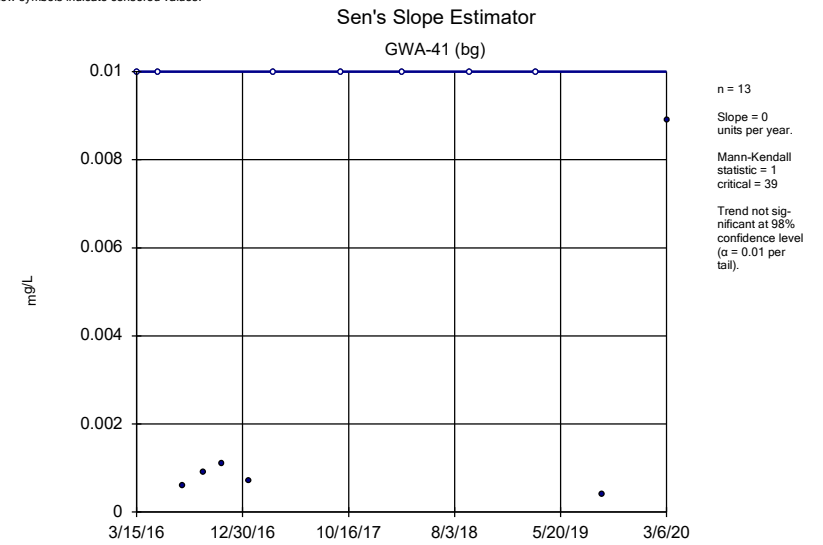
Constituent: Chromium Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Nickel Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



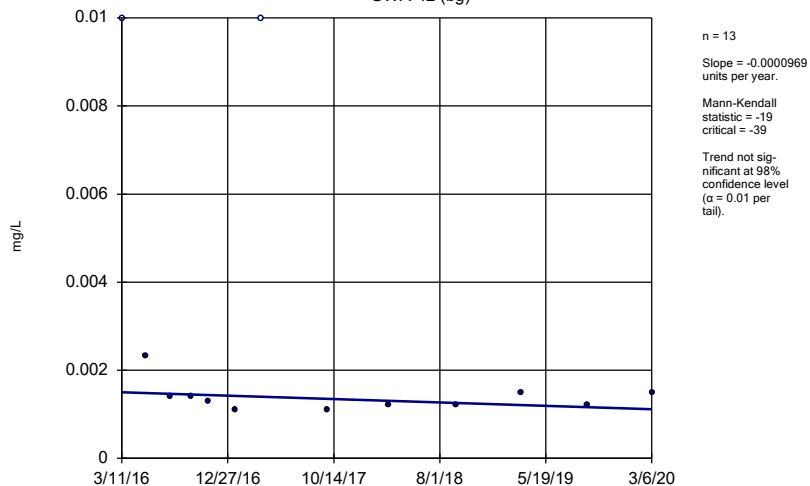
Constituent: Nickel Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Nickel Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

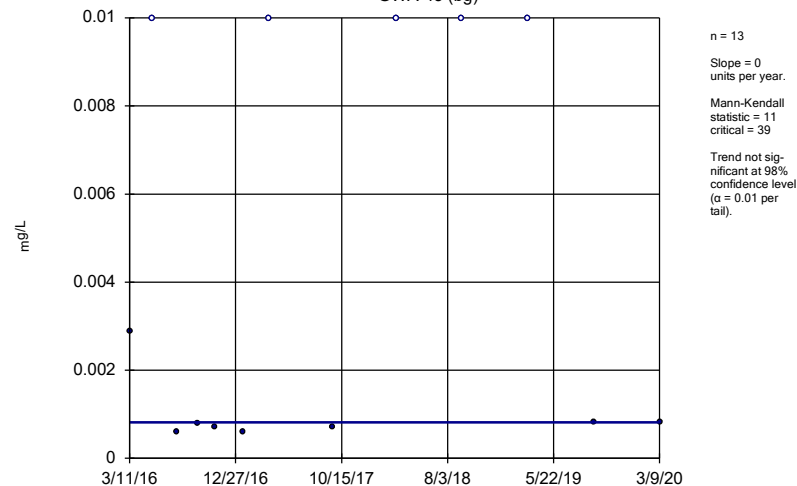
GWA-42 (bg)



Constituent: Nickel Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

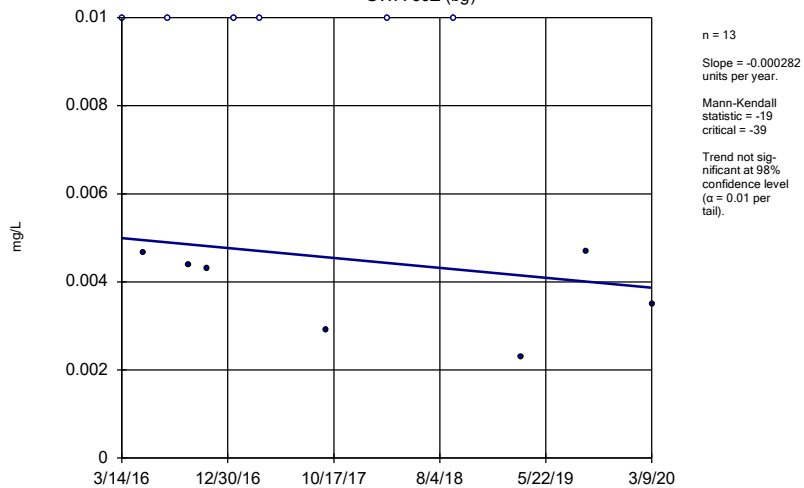
GWA-43 (bg)



Constituent: Nickel Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

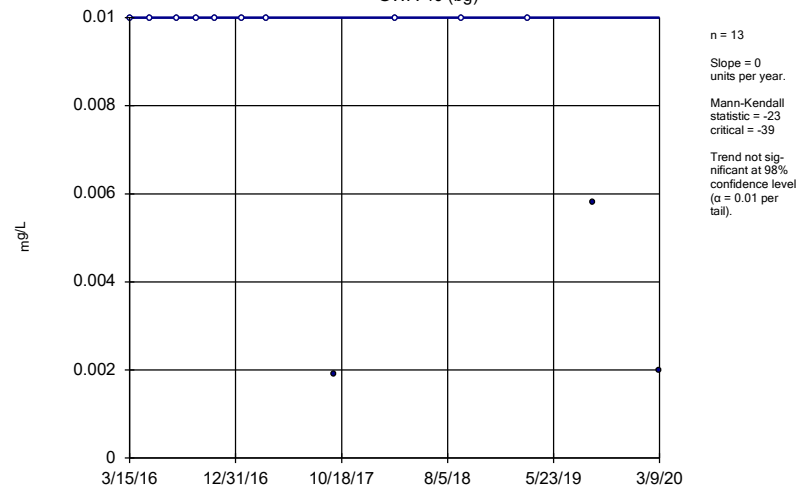
GWA-39Z (bg)



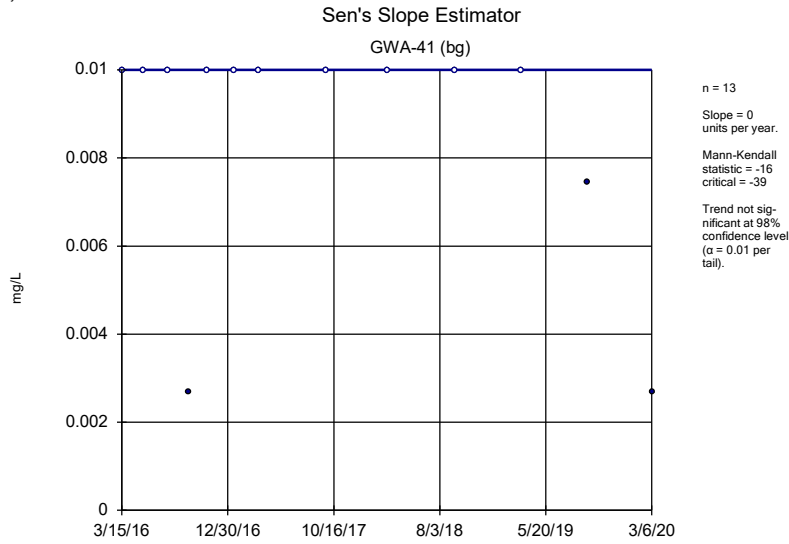
Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

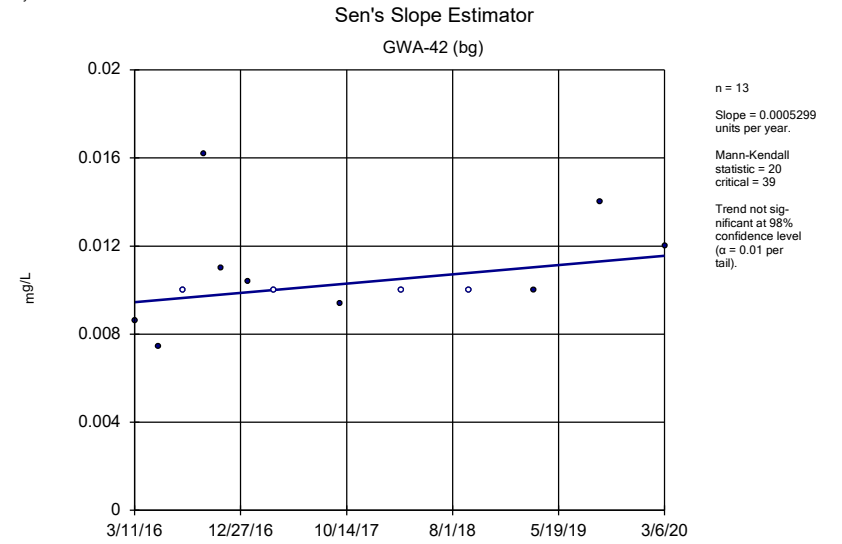
GWA-40 (bg)



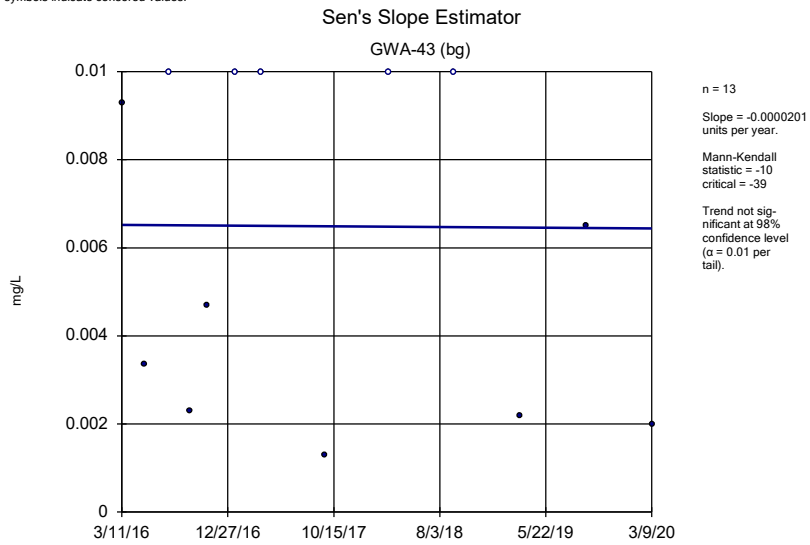
Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



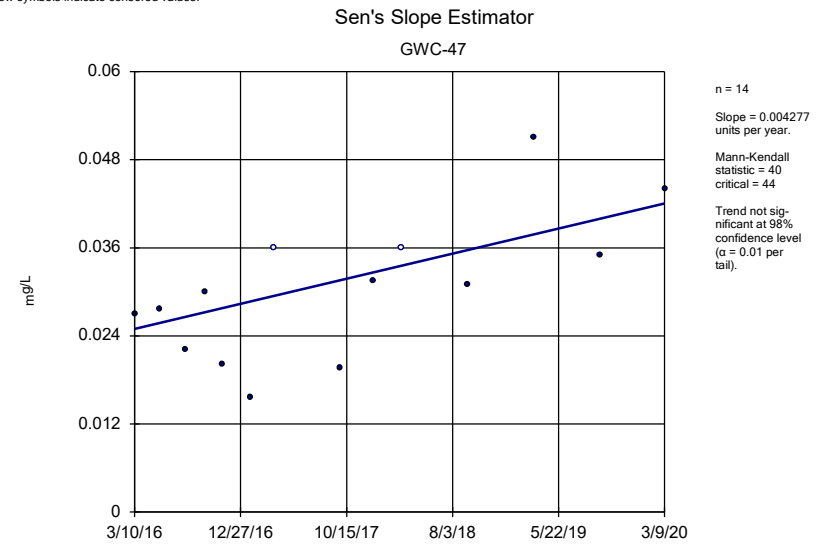
Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Zinc Analysis Run 4/16/2020 3:36 PM View: Trend Tests - Overburden State
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE H.

Intrawell Prediction Limits (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-40	28.9	n/a	3/9/2020	29.4	13	21.22	3.07	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/6/2020	38	13	30.44	2.022	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/10/2020	43.5	13	33.75	3.119	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/10/2020	4.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/10/2020	5.2	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/9/2020	249	13	156	36.55	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/10/2020	60	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/10/2020	245	13	158.7	27.13	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/9/2020	100	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param Intra 1 of 2

Intrawell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-39RZ	41.66	n/a	3/9/2020	35.6	13	31.85	3.916	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-39Z	35.15	n/a	3/9/2020	3.2	14	14.39	8.463	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-40	28.9	n/a	3/9/2020	29.4	13	21.22	3.07	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-41	40.96	n/a	3/6/2020	29.2	13	18.11	9.126	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-41R	45.25	n/a	3/9/2020	25.5	13	33.5	4.693	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/6/2020	38	13	30.44	2.022	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-43	19.73	n/a	3/9/2020	2.6	13	7.587	4.85	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWA-43R	32.72	n/a	3/9/2020	31.7	14	28.45	1.742	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-44	16.95	n/a	3/10/2020	16.9	13	5.414	4.606	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45	0.9609	n/a	3/10/2020	0.89	13	0.9012	0.03156	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/10/2020	43.5	13	33.75	3.119	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-46R	54.42	n/a	3/10/2020	51.6	13	44.5	3.96	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-47	30.67	n/a	3/9/2020	22.3	13	23.9	2.702	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-47R	38.32	n/a	3/9/2020	35	13	30.12	3.276	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-48	11.28	n/a	3/9/2020	4.5	13	1.729	0.6507	7.692	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-49R	31.53	n/a	3/11/2020	27.1	13	25.18	2.536	0	None	No	0.0008358	Param Intra 1 of 2
Calcium (mg/L)	GWC-49Z	6.919	n/a	3/9/2020	0.87	13	1.179	0.2903	0	None	x^(1/3)	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-39RZ	3.98	n/a	3/9/2020	1.5	13	2.48	0.5988	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-39Z	2.355	n/a	3/9/2020	1.2	13	1.633	0.2883	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-40	3.889	n/a	3/9/2020	1.5	14	1.224	0.305	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-41	4.209	n/a	3/6/2020	1.3	13	2.027	0.8715	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-41R	6.223	n/a	3/9/2020	1.3	13	3.133	1.234	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-42	3.894	n/a	3/6/2020	2.7	13	2.763	0.4518	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-43	1.591	n/a	3/9/2020	1.2	13	1.329	0.1047	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWA-43R	5.573	n/a	3/9/2020	2.2	13	3.368	0.8802	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-44	9.945	n/a	3/10/2020	5.9	14	4.578	2.188	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45	1.232	n/a	3/10/2020	0.8	13	0.9601	0.1087	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/10/2020	4.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-46R	3.019	n/a	3/10/2020	1.2	13	2.15	0.3467	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-47	3.019	n/a	3/9/2020	2.3	13	2.519	0.2	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-47R	3.021	n/a	3/9/2020	2.3	13	2.5	0.2079	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/9/2020	3.4	13	2.572	0.4151	0	None	No	0.0008358	Param Intra 1 of 2
Chloride (mg/L)	GWC-49R	2.7	n/a	3/11/2020	1.4	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-49Z	1.455	n/a	3/9/2020	1	13	1.118	0.1348	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-39RZ	30.14	n/a	3/9/2020	5.8	13	12.5	7.045	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-39Z	9.678	n/a	3/9/2020	0.84	13	4.516	2.061	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-40	7.087	n/a	3/9/2020	1.2	14	1.363	0.5295	7.143	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-41	11.99	n/a	3/6/2020	10	13	1.385	0.3607	0	None	x^(1/3)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-41R	12.93	n/a	3/9/2020	8.5	13	5.16	3.101	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-42	2.644	n/a	3/6/2020	1.7	13	1.641	0.4006	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-43	2.037	n/a	3/9/2020	0.5ND	13	0.8393	0.4783	7.692	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWA-43R	10.71	n/a	3/9/2020	3.9	13	6.176	1.812	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-44	52.83	n/a	3/10/2020	48.5	13	17.74	14.01	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-45	1.809	n/a	3/10/2020	0.61	13	0.7349	0.4287	15.38	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/10/2020	5.2	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-46R	9.593	n/a	3/10/2020	5.5	13	6.725	1.145	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-47	5.618	n/a	3/9/2020	4.3	13	4.287	0.5315	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-47R	16.1	n/a	3/9/2020	10.4	13	9.164	2.771	0	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/9/2020	1.6	14	1.869	0.8101	7.143	None	No	0.0008358	Param Intra 1 of 2
Sulfate (mg/L)	GWC-49R	6.225	n/a	3/11/2020	3.3	14	1.88	0.2508	0	None	sqrt(x)	0.0008358	Param Intra 1 of 2

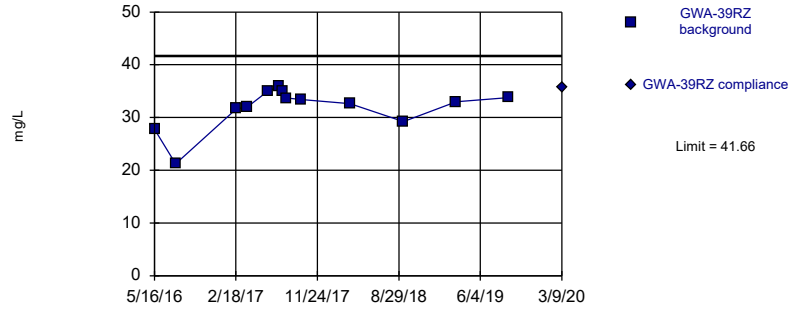
Intrawell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-49Z	10.28	n/a	3/9/2020	1.5	13	0.9416	0.5543	0	None	ln(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-39RZ	264.6	n/a	3/9/2020	173	13	170.3	37.67	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-39Z	175.8	n/a	3/9/2020	58	12	77	38.66	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-40	161.4	n/a	3/9/2020	131	13	107.8	21.41	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41	200.2	n/a	3/6/2020	137	13	85.46	45.83	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/9/2020	249	13	156	36.55	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-42	187.7	n/a	3/6/2020	143	13	135.9	20.69	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-43	90.21	n/a	3/9/2020	51	13	40.62	19.8	23.08	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-43R	179.1	n/a	3/9/2020	174	13	141	15.22	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-44	190.9	n/a	3/10/2020	127	14	3.427	0.9504	21.43	Kaplan-Meier	x^(1/3)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/10/2020	60	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/10/2020	245	13	158.7	27.13	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-46R	293.7	n/a	3/10/2020	273	13	234.8	23.52	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-47	171.4	n/a	3/9/2020	147	13	127.8	17.38	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-47R	187.7	n/a	3/9/2020	44	13	154.5	13.26	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/9/2020	100	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-49R	196.3	n/a	3/11/2020	125	13	126.6	27.83	0	None	No	0.0008358	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-49Z	63.44	n/a	3/9/2020	51	13	31.4	12.79	23.08	Kaplan-Meier	No	0.0008358	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

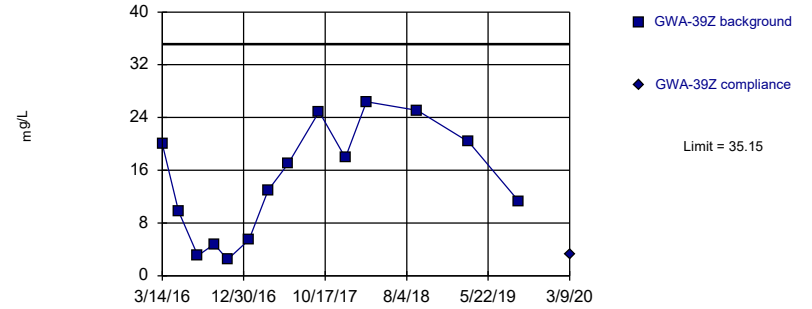


Background Data Summary: Mean=31.85, Std. Dev.=3.916, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.815, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

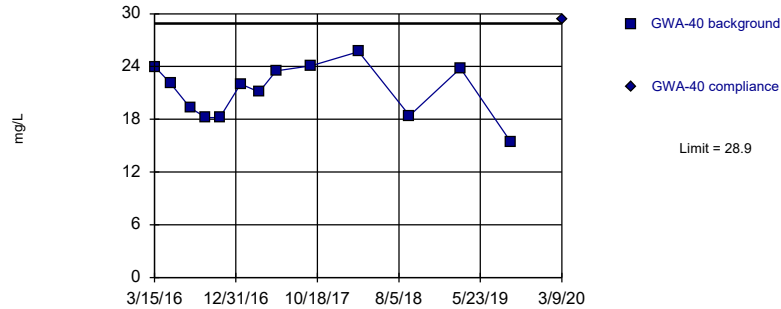


Background Data Summary: Mean=14.39, Std. Dev.=8.463, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

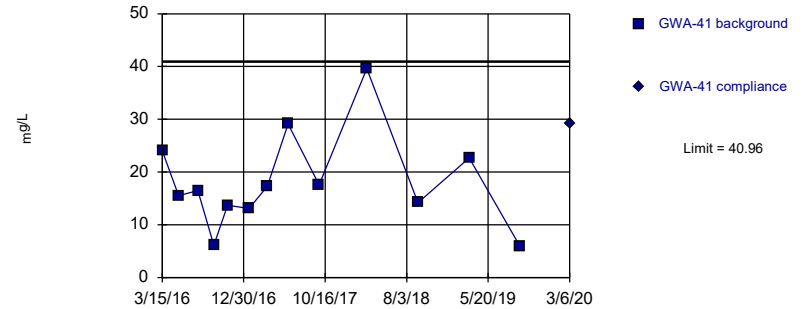


Background Data Summary: Mean=21.22, Std. Dev.=3.07, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9413, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=18.11, Std. Dev.=9.126, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.918, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	27.8 (D)	
7/27/2016	21.2 (D)	
2/21/2017	31.7 (D)	
3/27/2017	31.9 (D)	
6/8/2017	35 (D)	
7/17/2017	35.9 (D)	
7/27/2017	34.9 (D)	
8/9/2017	33.7 (D)	
9/29/2017	33.4 (D)	
3/16/2018	32.6	
9/14/2018	29.2	
3/14/2019	33	
9/10/2019	33.8	
3/9/2020		35.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	20	
5/11/2016	9.76	
7/19/2016	3.04	
9/15/2016	4.78	
11/2/2016	2.46	
1/18/2017	5.46	
3/28/2017	13	
6/7/2017	17	
9/26/2017	24.9	
12/28/2017	17.9 (Y)	
3/14/2018	26.4	
9/12/2018	25.1	
3/15/2019	20.3 (X)	
9/9/2019	11.3	
3/9/2020		3.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	24	
5/11/2016	22.1	
7/21/2016	19.3	
9/15/2016	18.2	
11/3/2016	18.2	
1/17/2017	22	
3/24/2017	21.1	
5/24/2017	23.5	
9/26/2017	24.1	
3/14/2018	25.7	
9/12/2018	18.4 (J)	
3/13/2019	23.8 (X)	
9/9/2019	15.4	
3/9/2020		29.4

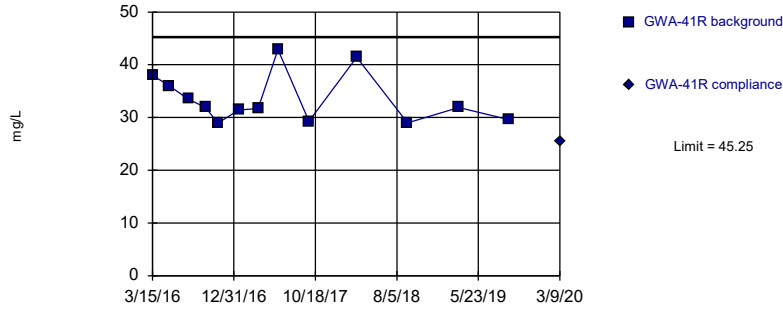
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	24	
5/12/2016	15.5	
7/20/2016	16.5	
9/15/2016	6.1	
11/3/2016	13.7	
1/18/2017	13.1	
3/24/2017	17.3	
6/6/2017	29.1	
9/25/2017	17.6	
3/14/2018	39.6	
9/12/2018	14.2 (J)	
3/14/2019	22.7 (X)	
9/10/2019	6	
3/6/2020		29.2

Within Limit

Prediction Limit
Intrawell Parametric

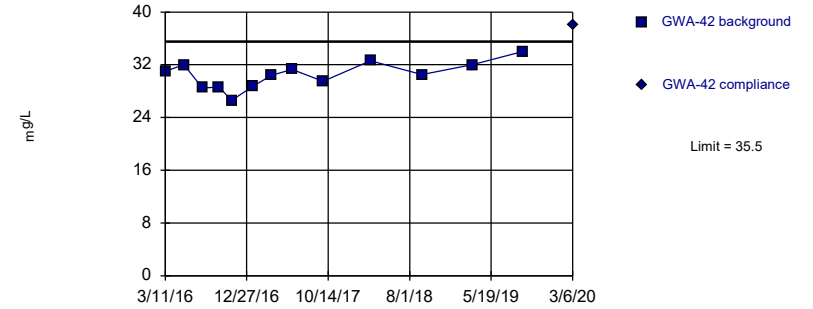


Background Data Summary: Mean=33.5, Std. Dev.=4.693, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8579, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

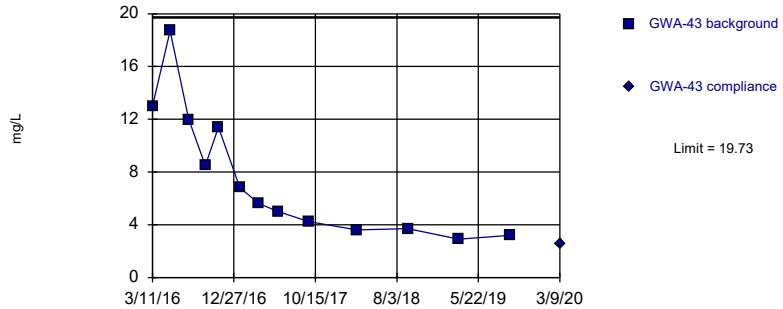


Background Data Summary: Mean=30.44, Std. Dev.=2.022, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:12 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

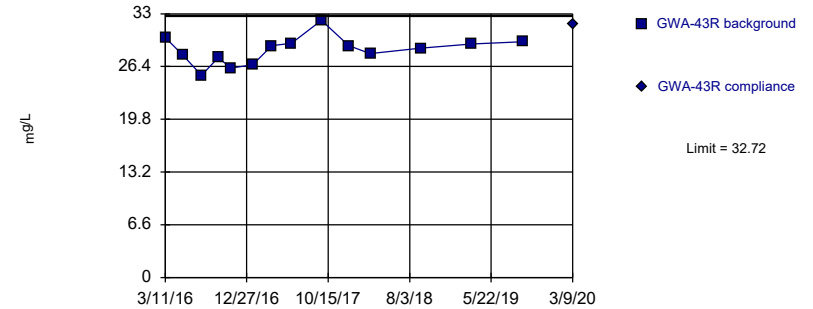


Background Data Summary: Mean=7.587, Std. Dev.=4.85, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8654, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=28.45, Std. Dev.=1.742, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9665, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	38	
5/13/2016	36	
7/21/2016	33.5	
9/21/2016	31.9	
11/3/2016	28.9	
1/17/2017	31.4	
3/27/2017	31.7	
6/6/2017	42.9	
9/25/2017	29.3	
3/14/2018	41.4	
9/12/2018	29	
3/14/2019	31.9	
9/10/2019	29.6	
3/9/2020		25.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	31	
5/16/2016	32	
7/22/2016	28.5	
9/19/2016	28.6	
11/3/2016	26.6	
1/17/2017	28.7	
3/27/2017	30.4	
6/7/2017	31.3	
9/26/2017	29.5	
3/14/2018	32.6	
9/14/2018	30.5	
3/14/2019	32	
9/10/2019	34	
3/6/2020		38

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	13	
5/13/2016	18.7	
7/19/2016	12	
9/16/2016	8.48	
11/2/2016	11.4	
1/18/2017	6.81	
3/28/2017	5.61	
6/6/2017	4.99	
9/22/2017	4.24	
3/14/2018	3.6	
9/12/2018	3.7	
3/13/2019	2.9	
9/11/2019	3.2	
3/9/2020		2.6

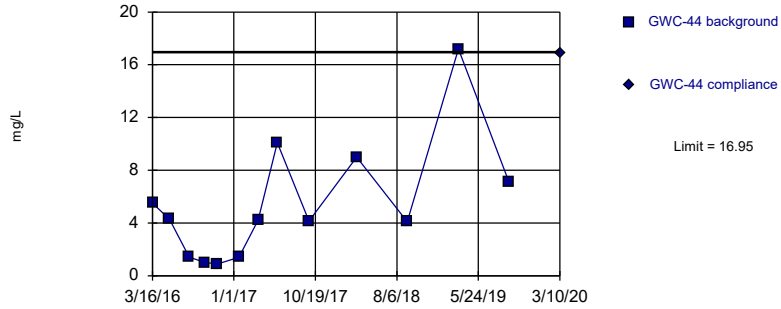
Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	30	
5/13/2016	27.8	
7/19/2016	25.3	
9/16/2016	27.5	
11/2/2016	26.2	
1/18/2017	26.6	
3/28/2017	29	
6/6/2017	29.3	
9/22/2017	32.2	
12/28/2017	29 (Y)	
3/15/2018	28	
9/12/2018	28.7	
3/13/2019	29.2	
9/11/2019	29.5	
3/9/2020		31.7

Within Limit

Prediction Limit
Intrawell Parametric

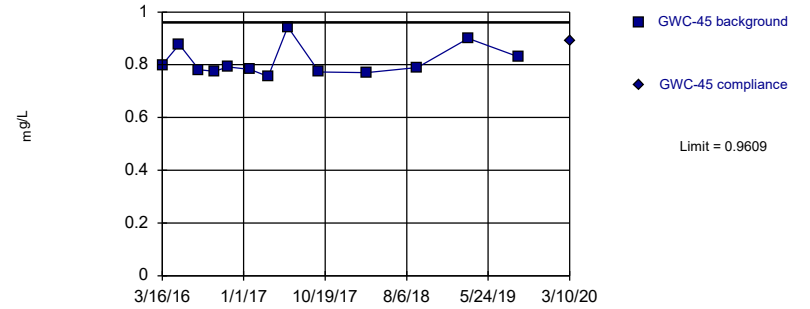


Background Data Summary: Mean=5.414, Std. Dev.=4.606, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8525, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

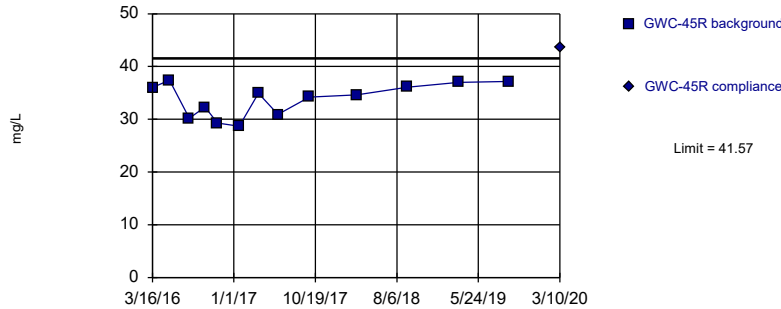


Background Data Summary (based on square root transformation): Mean=0.9012, Std. Dev.=0.03156, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8186, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

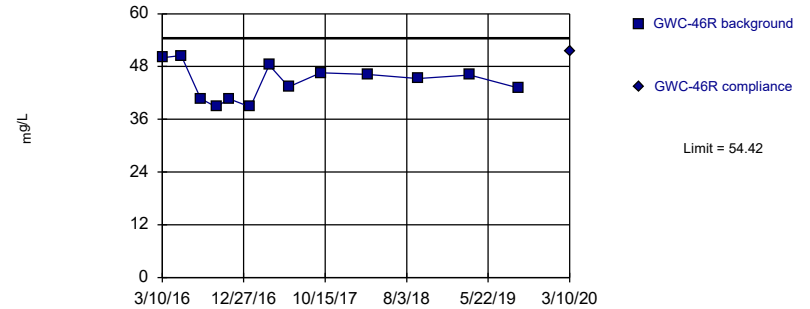


Background Data Summary: Mean=33.75, Std. Dev.=3.119, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=44.5, Std. Dev.=3.96, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9427, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	5.5	
5/16/2016	4.3	
7/25/2016	1.41	
9/19/2016	1.01	
11/3/2016	0.884	
1/19/2017	1.41	
3/28/2017	4.23	
6/5/2017	10.1	
9/26/2017	4.14	
3/15/2018	9	
9/12/2018	4.1	
3/14/2019	17.2 (X)	
9/11/2019	7.1	
3/10/2020		16.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	0.8	
5/16/2016	0.877	
7/25/2016	0.781	
9/19/2016	0.775	
11/4/2016	0.792	
1/23/2017	0.782	
3/29/2017	0.756	
6/7/2017	0.944	
9/27/2017	0.773	
3/15/2018	0.77	
9/13/2018	0.79	
3/14/2019	0.9	
9/11/2019	0.83	
3/10/2020		0.89 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

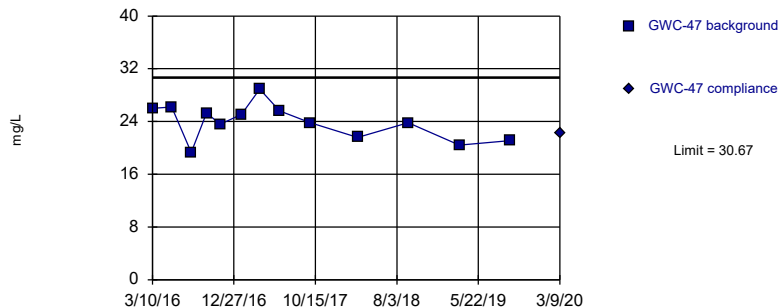
	GWC-45R	GWC-45R
3/16/2016	36	
5/16/2016	37.4	
7/25/2016	30.2	
9/19/2016	32.3	
11/3/2016	29.3	
1/20/2017	28.7	
3/29/2017	34.9	
6/7/2017	30.9	
9/27/2017	34.2	
3/15/2018	34.6	
9/13/2018	36.1	
3/14/2019	37	
9/11/2019	37.2	
3/10/2020		43.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	50	
5/17/2016	50.5	
7/26/2016	40.7	
9/20/2016	38.8	
11/4/2016	40.7	
1/20/2017	38.8	
3/28/2017	48.3	
6/7/2017	43.4	
9/29/2017	46.6	
3/15/2018	46.2	
9/13/2018	45.3	
3/18/2019	46.1	
9/11/2019	43.1	
3/10/2020		51.6

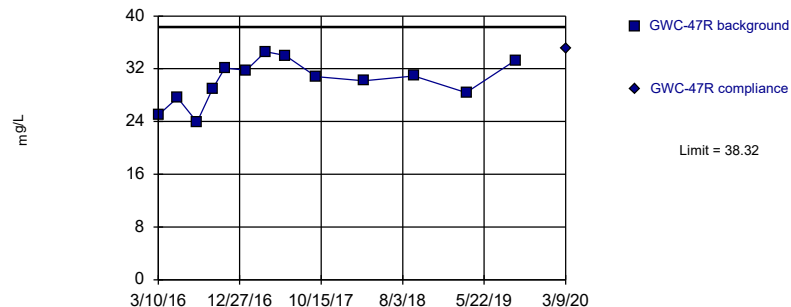
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=23.9, Std. Dev.=2.702, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric

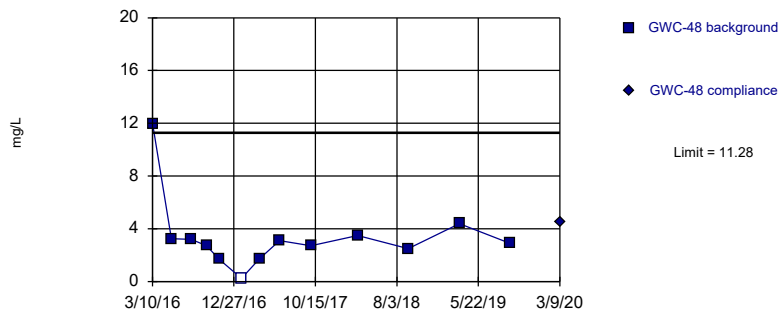


Background Data Summary: Mean=30.12, Std. Dev.=3.276, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Hollow symbols indicate censored values.

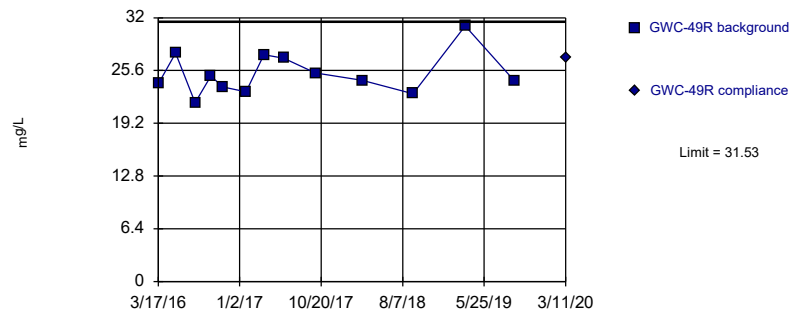
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.729, Std. Dev.=0.6507, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8256, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=25.18, Std. Dev.=2.536, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9297, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	26	
5/18/2016	26.2	
7/27/2016	19.3	
9/20/2016	25.3	
11/7/2016	23.6	
1/23/2017	25.1	
3/29/2017	28.9	
6/8/2017	25.6	
9/27/2017	23.8	
3/15/2018	21.6 (J)	
9/13/2018	23.8 (J)	
3/15/2019	20.4 (X)	
9/12/2019	21.1	
3/9/2020		22.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	25	
5/18/2016	27.6	
7/27/2016	23.9	
9/20/2016	28.9	
11/4/2016	32.1	
1/20/2017	31.8	
3/29/2017	34.6	
6/8/2017	34	
9/27/2017	30.8	
3/16/2018	30.2	
9/13/2018	30.9	
3/19/2019	28.4	
9/11/2019	33.3	
3/9/2020		35

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

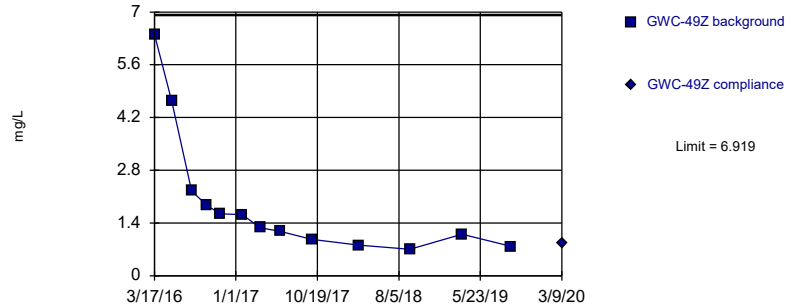
	GWC-48	GWC-48
3/10/2016	12	
5/17/2016	3.25	
7/27/2016	3.2	
9/20/2016	2.72	
11/4/2016	1.69	
1/23/2017	<0.5	
3/28/2017	1.72	
6/8/2017	3.11	
9/29/2017	2.71	
3/15/2018	3.5	
9/13/2018	2.5	
3/15/2019	4.4	
9/11/2019	2.9	
3/9/2020		4.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	24	
5/18/2016	27.7	
7/27/2016	21.7	
9/21/2016	24.9	
11/4/2016	23.6	
1/24/2017	23	
3/29/2017	27.5	
6/8/2017	27.1	
9/29/2017	25.3	
3/15/2018	24.4 (J)	
9/13/2018	22.8 (J)	
3/18/2019	31	
9/11/2019	24.3	
3/11/2020		27.1

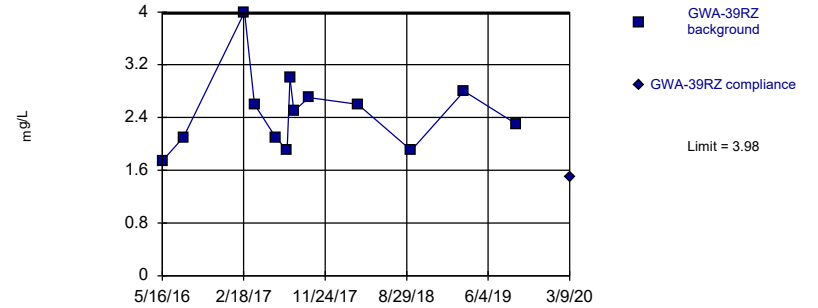
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.179, Std. Dev.=0.2903, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8413, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

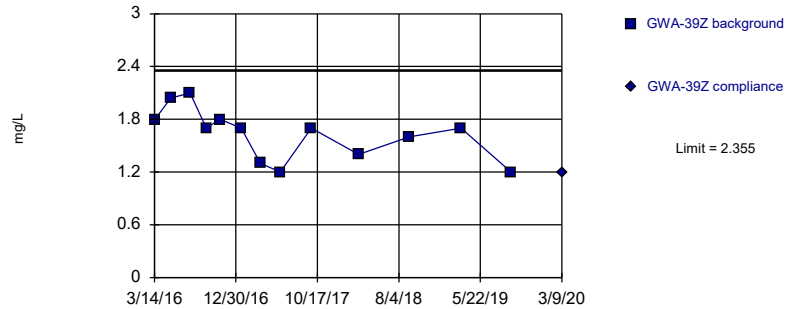
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.48, Std. Dev.=0.5988, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8997, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

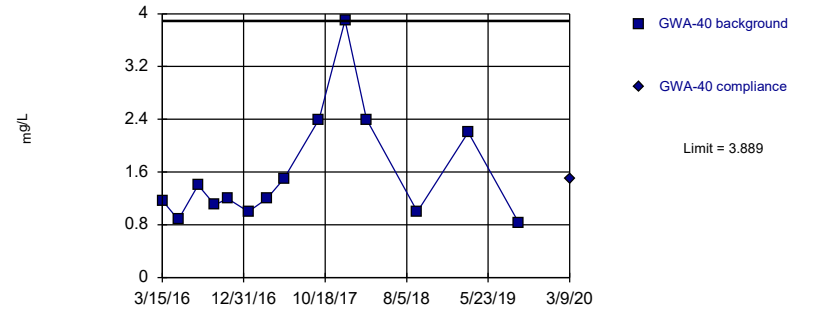
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.633, Std. Dev.=0.2883, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9255, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.224, Std. Dev.=0.305, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8491, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	6.4	
5/18/2016	4.63	
7/28/2016	2.25	
9/21/2016	1.86	
11/7/2016	1.65	
1/24/2017	1.62	
3/30/2017	1.27	
6/9/2017	1.18	
9/29/2017	0.967	
3/15/2018	0.81	
9/14/2018	0.7	
3/19/2019	1.1	
9/11/2019	0.78	
3/9/2020		0.87 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	1.74 (D)	
7/27/2016	2.1 (D)	
2/21/2017	4 (D)	
3/27/2017	2.6 (D)	
6/8/2017	2.1 (D)	
7/17/2017	1.9 (D)	
7/27/2017	3 (D)	
8/9/2017	2.5 (D)	
9/29/2017	2.7 (D)	
3/16/2018	2.6	
9/14/2018	1.9	
3/14/2019	2.8	
9/10/2019	2.3	
3/9/2020		1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

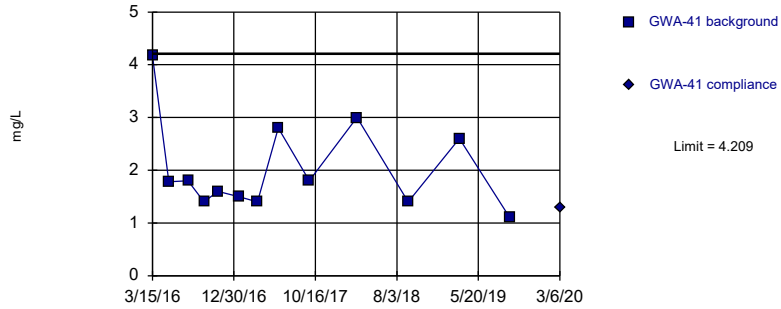
	GWA-39Z	GWA-39Z
3/14/2016	1.795	
5/11/2016	2.04	
7/19/2016	2.1	
9/15/2016	1.7	
11/2/2016	1.8	
1/18/2017	1.7	
3/28/2017	1.3	
6/7/2017	1.2	
9/26/2017	1.7	
3/14/2018	1.4	
9/12/2018	1.6	
3/15/2019	1.7	
9/9/2019	1.2	
3/9/2020		1.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	1.1671	
5/11/2016	0.8763	
7/21/2016	1.4	
9/19/2016	1.1	
11/3/2016	1.2	
1/17/2017	1	
3/24/2017	1.2	
5/24/2017	1.5	
9/26/2017	2.4	
12/28/2017	3.9 (Y)	
3/14/2018	2.4	
9/12/2018	1	
3/13/2019	2.2	
9/9/2019	0.83 (X)	
3/9/2020		1.5

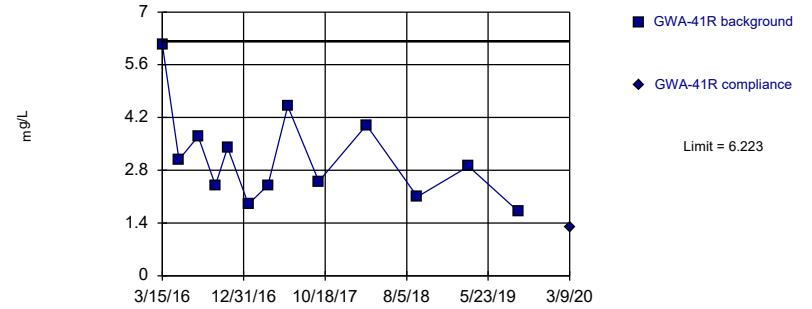
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.027, Std. Dev.=0.8715, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8369, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

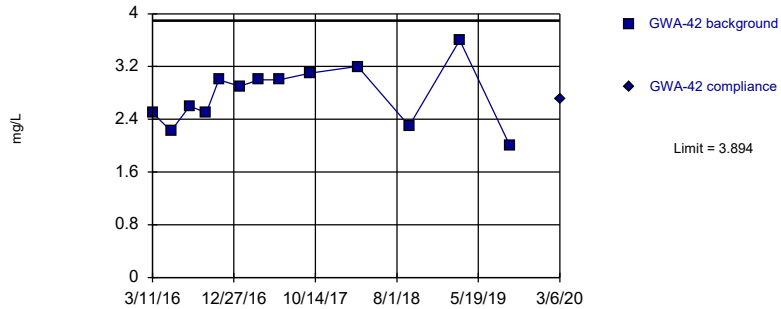
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.133, Std. Dev.=1.234, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9062, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

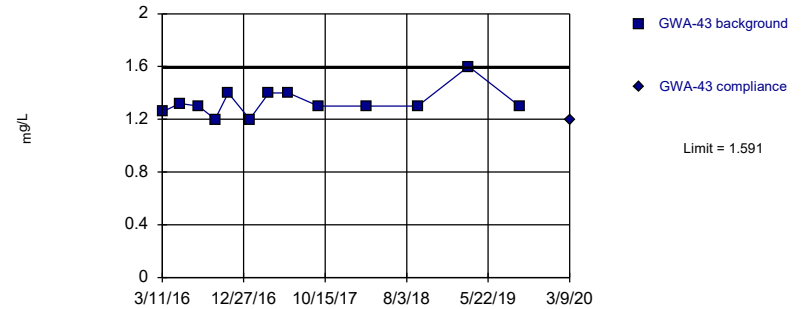
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.763, Std. Dev.=0.4518, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.329, Std. Dev.=0.1047, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8529, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	4.1666	
5/12/2016	1.78	
7/20/2016	1.8	
9/15/2016	1.4	
11/3/2016	1.6	
1/18/2017	1.5	
3/24/2017	1.4	
6/6/2017	2.8	
9/25/2017	1.8	
3/14/2018	3	
9/12/2018	1.4	
3/14/2019	2.6	
9/10/2019	1.1	
3/6/2020		1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	6.1465	
5/13/2016	3.08	
7/21/2016	3.7	
9/21/2016	2.4	
11/3/2016	3.4	
1/17/2017	1.9	
3/27/2017	2.4	
6/6/2017	4.5	
9/25/2017	2.5	
3/14/2018	4 (J)	
9/12/2018	2.1	
3/14/2019	2.9	
9/10/2019	1.7	
3/9/2020		1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

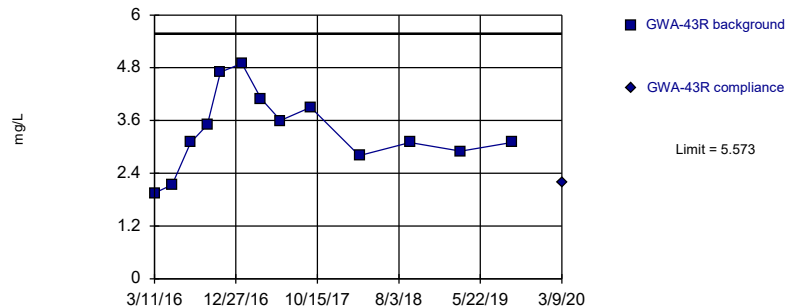
	GWA-42	GWA-42
3/11/2016	2.4984	
5/16/2016	2.22	
7/22/2016	2.6	
9/19/2016	2.5	
11/3/2016	3	
1/17/2017	2.9	
3/27/2017	3	
6/7/2017	3	
9/26/2017	3.1	
3/14/2018	3.2	
9/14/2018	2.3	
3/14/2019	3.6	
9/10/2019	2	
3/6/2020		2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	1.2562	
5/13/2016	1.32	
7/19/2016	1.3	
9/16/2016	1.2	
11/2/2016	1.4	
1/18/2017	1.2	
3/28/2017	1.4	
6/6/2017	1.4	
9/22/2017	1.3	
3/14/2018	1.3	
9/12/2018	1.3	
3/13/2019	1.6	
9/11/2019	1.3	
3/9/2020		1.2

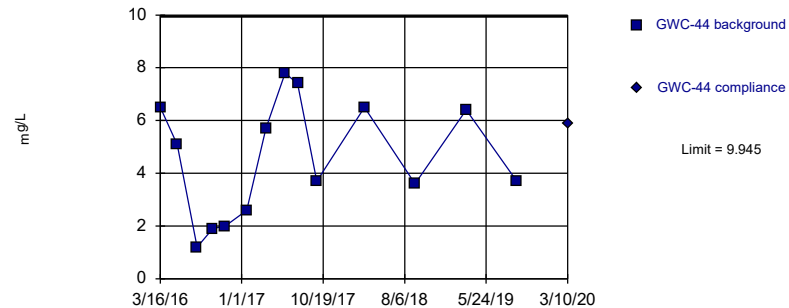
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.368, Std. Dev.=0.8802, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9646, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

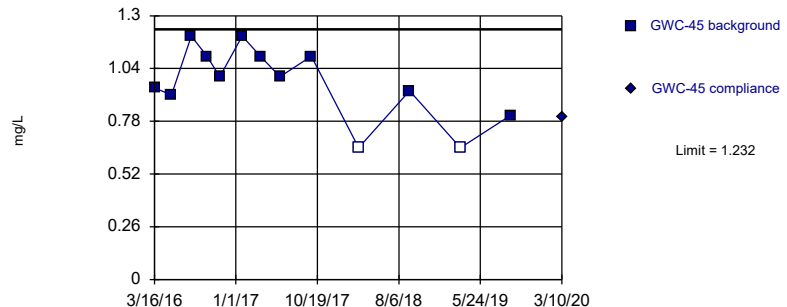
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=4.578, Std. Dev.=2.188, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.935, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

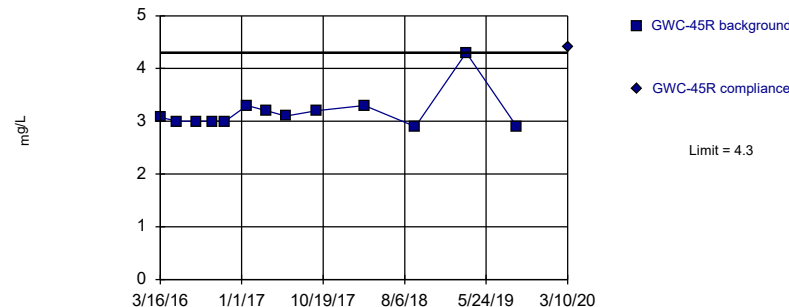
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.9601, Std. Dev.=0.1087, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9175, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit Prediction Limit
Intrawell Non-parametric



Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	1.9467	
5/13/2016	2.14	
7/19/2016	3.1	
9/16/2016	3.5	
11/2/2016	4.7	
1/18/2017	4.9	
3/28/2017	4.1	
6/6/2017	3.6	
9/22/2017	3.9	
3/15/2018	2.8	
9/12/2018	3.1	
3/13/2019	2.9	
9/11/2019	3.1	
3/9/2020		2.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	6.505	
5/16/2016	5.08	
7/25/2016	1.2	
9/19/2016	1.9	
11/3/2016	2	
1/19/2017	2.6	
3/28/2017	5.7	
6/5/2017	7.8	
7/20/2017	7.4	
9/26/2017	3.7	
3/15/2018	6.5	
9/12/2018	3.6	
3/14/2019	6.4	
9/11/2019	3.7	
3/10/2020		5.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

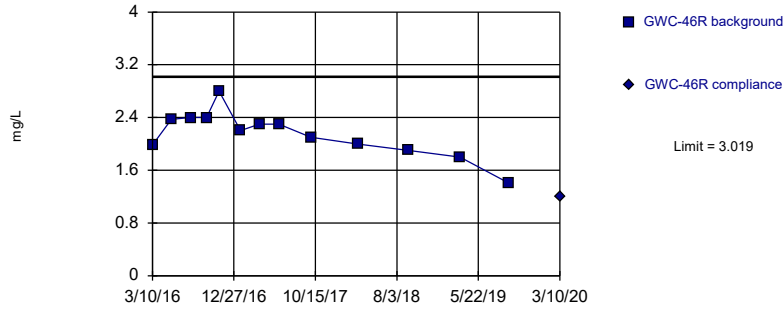
	GWC-45	GWC-45
3/16/2016	0.9445	
5/16/2016	0.9104	
7/25/2016	1.2	
9/19/2016	1.1	
11/4/2016	1	
1/23/2017	1.2	
3/29/2017	1.1	
6/7/2017	1	
9/27/2017	1.1	
3/15/2018	<1.3	
9/13/2018	0.93	
3/14/2019	<1.3	
9/11/2019	0.81 (X)	
3/10/2020		0.8 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	3.0774	
5/16/2016	3	
7/25/2016	3	
9/19/2016	3	
11/3/2016	3	
1/20/2017	3.3	
3/29/2017	3.2	
6/7/2017	3.1	
9/27/2017	3.2	
3/15/2018	3.3	
9/13/2018	2.9	
3/14/2019	4.3	
9/11/2019	2.9	
3/10/2020		4.4

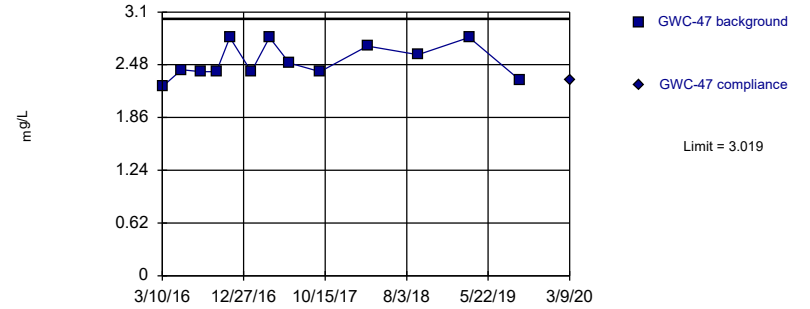
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.15, Std. Dev.=0.3467, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9645, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

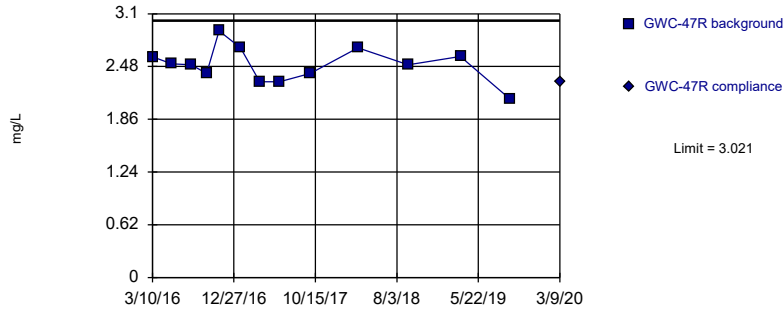
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.519, Std. Dev.=0.2, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8851, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

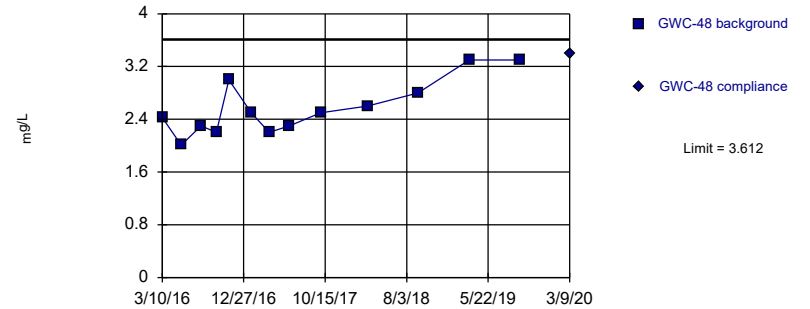
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.5, Std. Dev.=0.2079, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.983, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.572, Std. Dev.=0.4151, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9106, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	1.9859	
5/17/2016	2.37	
7/26/2016	2.4	
9/20/2016	2.4	
11/4/2016	2.8	
1/20/2017	2.2	
3/28/2017	2.3	
6/7/2017	2.3	
9/29/2017	2.1	
3/15/2018	2	
9/13/2018	1.9	
3/18/2019	1.8	
9/11/2019	1.4	
3/10/2020		1.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	2.2206	
5/18/2016	2.42	
7/27/2016	2.4	
9/20/2016	2.4	
11/7/2016	2.8	
1/23/2017	2.4	
3/29/2017	2.8	
6/8/2017	2.5	
9/27/2017	2.4	
3/15/2018	2.7	
9/13/2018	2.6	
3/15/2019	2.8	
9/12/2019	2.3	
3/9/2020		2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	2.5934	
5/18/2016	2.51	
7/27/2016	2.5	
9/20/2016	2.4	
11/4/2016	2.9	
1/20/2017	2.7	
3/29/2017	2.3	
6/8/2017	2.3	
9/27/2017	2.4	
3/16/2018	2.7	
9/13/2018	2.5	
3/19/2019	2.6	
9/11/2019	2.1	
3/9/2020		2.3

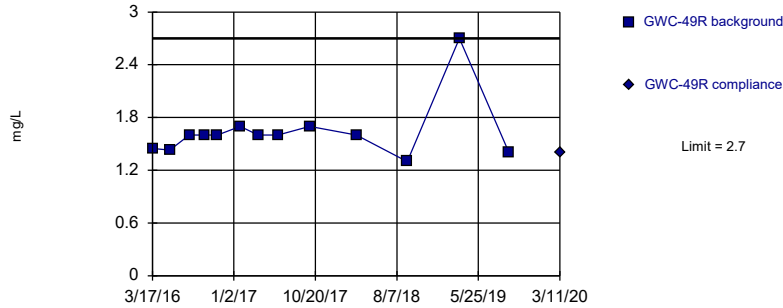
Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	2.4266	
5/17/2016	2.01	
7/27/2016	2.3	
9/20/2016	2.2	
11/4/2016	3	
1/23/2017	2.5	
3/28/2017	2.2	
6/8/2017	2.3	
9/29/2017	2.5	
3/15/2018	2.6	
9/13/2018	2.8	
3/15/2019	3.3	
9/11/2019	3.3	
3/9/2020		3.4

Within Limit

Prediction Limit
Intrawell Non-parametric

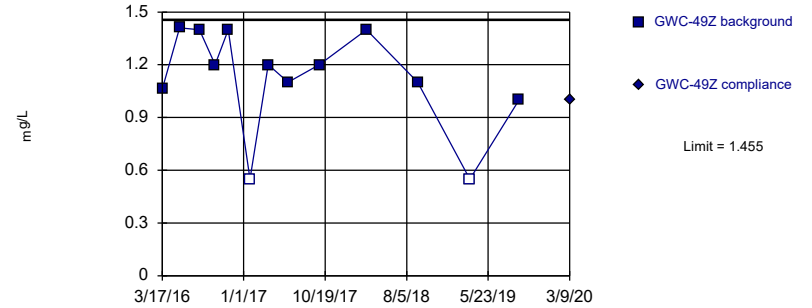


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

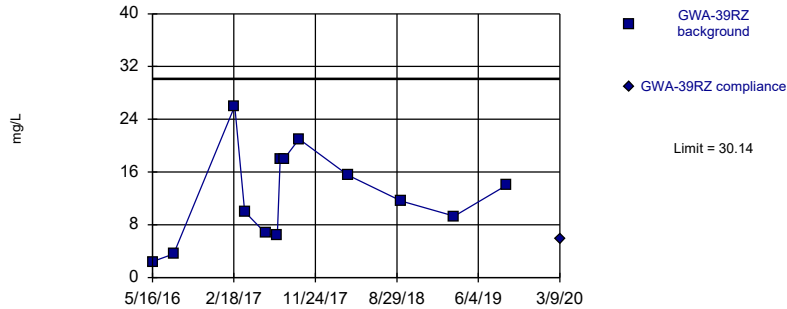


Background Data Summary (after Kaplan-Meier Adjustment): Mean=1.118, Std. Dev.=0.1348, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8297, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

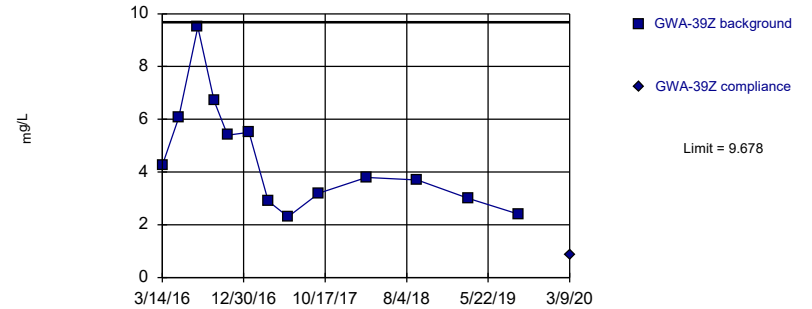


Background Data Summary: Mean=12.5, Std. Dev.=7.045, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=4.516, Std. Dev.=2.061, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8927, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	1.4476	
5/18/2016	1.43	
7/27/2016	1.6	
9/21/2016	1.6	
11/4/2016	1.6	
1/24/2017	1.7	
3/29/2017	1.6	
6/8/2017	1.6	
9/29/2017	1.7	
3/15/2018	1.6	
9/13/2018	1.3	
3/18/2019	2.7	
9/11/2019	1.4	
3/11/2020		1.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	1.0624	
5/18/2016	1.41	
7/28/2016	1.4	
9/21/2016	1.2	
11/7/2016	1.4	
1/24/2017	<1.1 (*)	
3/30/2017	1.2	
6/9/2017	1.1	
9/29/2017	1.2	
3/15/2018	1.4	
9/14/2018	1.1	
3/19/2019	<1.1	
9/11/2019	1	
3/9/2020		1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	2.4 (D)	
7/27/2016	3.6 (D)	
2/21/2017	26 (D)	
3/27/2017	10 (D)	
6/8/2017	6.7 (D)	
7/17/2017	6.4 (D)	
7/27/2017	18 (D)	
8/9/2017	18 (D)	
9/29/2017	21 (D)	
3/16/2018	15.5	
9/14/2018	11.6	
3/14/2019	9.3	
9/10/2019	14	
3/9/2020		5.8

Prediction Limit

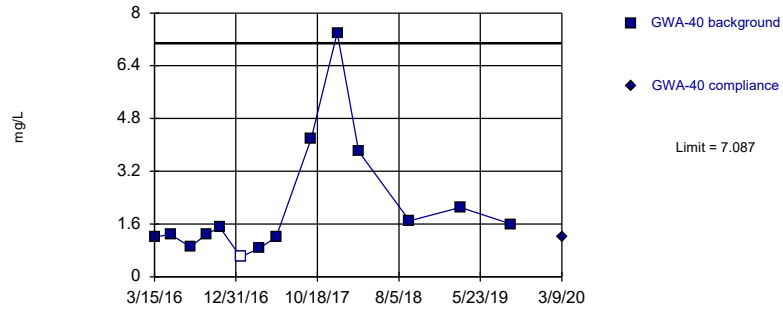
Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	4.2598	
5/11/2016	6.05	
7/19/2016	9.5	
9/15/2016	6.7	
11/2/2016	5.4	
1/18/2017	5.5	
3/28/2017	2.9	
6/7/2017	2.3	
9/26/2017	3.2	
3/14/2018	3.8	
9/12/2018	3.7	
3/15/2019	3	
9/9/2019	2.4	
3/9/2020		0.84 (J)

Within Limit

Prediction Limit
Intrawell Parametric

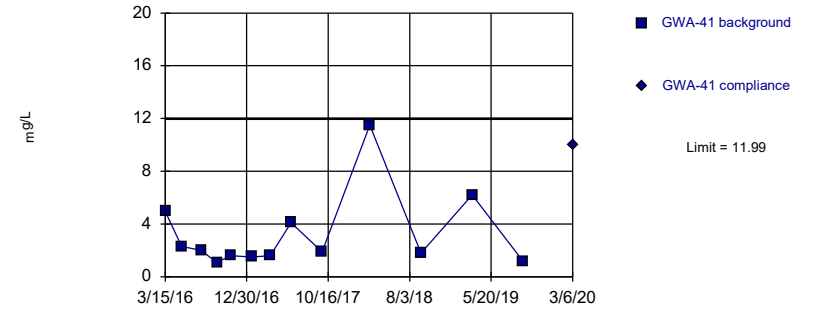


Background Data Summary (based on square root transformation): Mean=1.363, Std. Dev.=0.5295, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8304, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

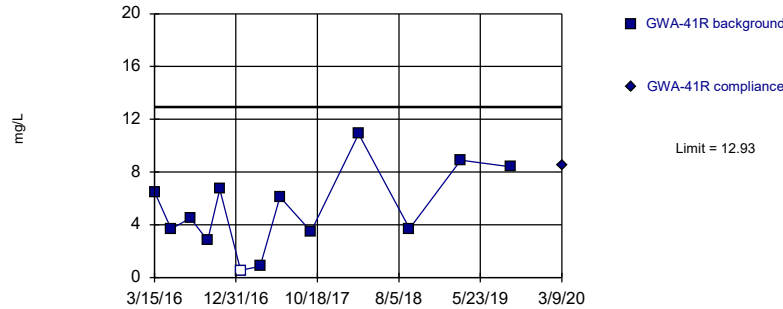


Background Data Summary (based on cube root transformation): Mean=1.385, Std. Dev.=0.3607, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8339, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

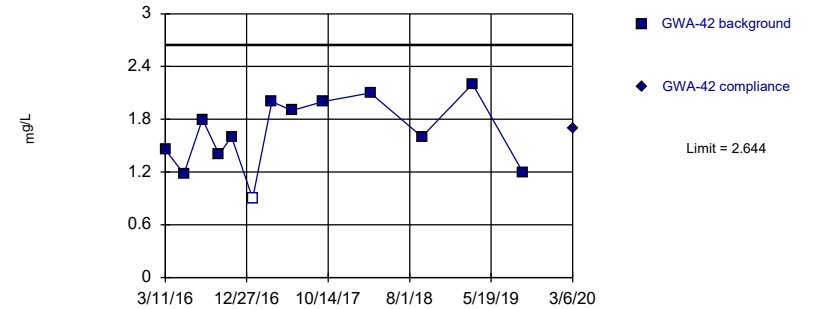


Background Data Summary: Mean=5.16, Std. Dev.=3.101, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9663, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.641, Std. Dev.=0.4006, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9573, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	1.2104	
5/11/2016	1.28	
7/21/2016	0.91 (J)	
9/19/2016	1.3	
11/3/2016	1.5	
1/17/2017	<1.2 (*)	
3/24/2017	0.86 (J)	
5/24/2017	1.2	
9/26/2017	4.2	
12/28/2017	7.4 (Y)	
3/14/2018	3.8	
9/12/2018	1.7	
3/13/2019	2.1	
9/9/2019	1.6	
3/9/2020		1.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	4.9347	
5/12/2016	2.3	
7/20/2016	2	
9/15/2016	1.1	
11/3/2016	1.6	
1/18/2017	1.5	
3/24/2017	1.6	
6/6/2017	4.1	
9/25/2017	1.9	
3/14/2018	11.5	
9/12/2018	1.8	
3/14/2019	6.2	
9/10/2019	1.2	
3/6/2020		10

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	6.4987	
5/13/2016	3.68	
7/21/2016	4.5	
9/21/2016	2.8	
11/3/2016	6.7	
1/17/2017	<1.1 (*)	
3/27/2017	0.85 (J)	
6/6/2017	6.1	
9/25/2017	3.5	
3/14/2018	10.9 (J)	
9/12/2018	3.7	
3/14/2019	8.9	
9/10/2019	8.4	
3/9/2020		8.5

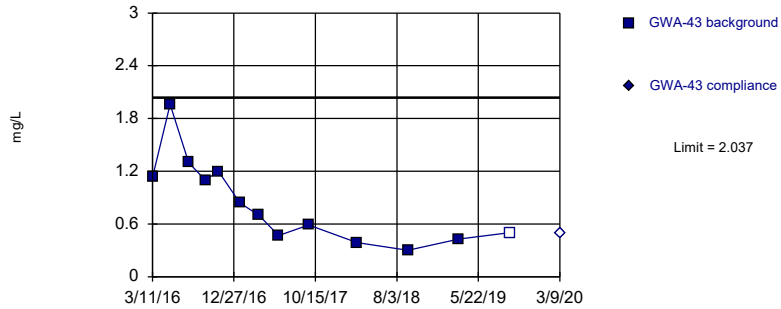
Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	1.4538	
5/16/2016	1.18	
7/22/2016	1.8	
9/19/2016	1.4	
11/3/2016	1.6	
1/17/2017	<1.8 (*)	
3/27/2017	2	
6/7/2017	1.9	
9/26/2017	2	
3/14/2018	2.1	
9/14/2018	1.6	
3/14/2019	2.2	
9/10/2019	1.2	
3/6/2020		1.7

Within Limit

Prediction Limit
Intrawell Parametric

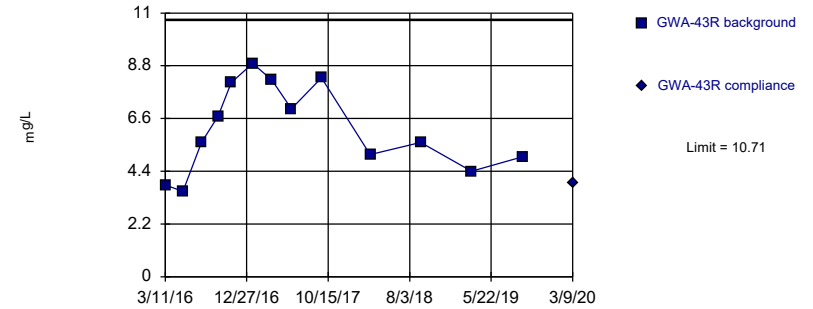


Background Data Summary: Mean=0.8393, Std. Dev.=0.4783, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8982, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

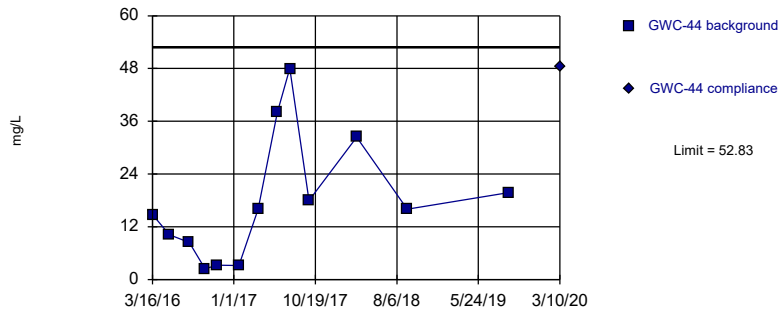


Background Data Summary: Mean=6.176, Std. Dev.=1.812, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9329, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

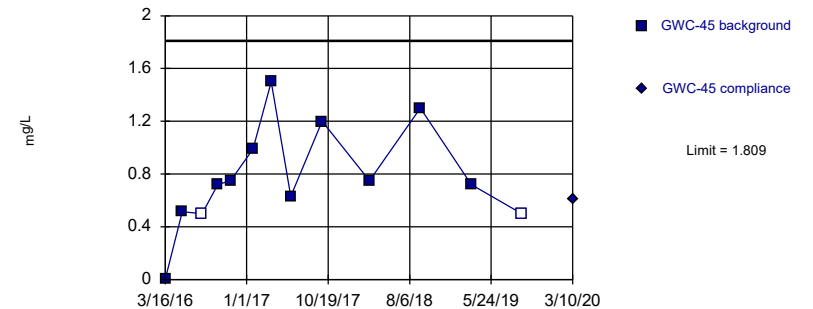


Background Data Summary: Mean=17.74, Std. Dev.=14.01, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8918, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.7349, Std. Dev.=0.4287, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9496, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:13 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	1.1313	
5/13/2016	1.96	
7/19/2016	1.3	
9/16/2016	1.1	
11/2/2016	1.2	
1/18/2017	0.84 (J)	
3/28/2017	0.7 (J)	
6/6/2017	0.47 (J)	
9/22/2017	0.59 (J)	
3/14/2018	0.39 (J)	
9/12/2018	0.3 (J)	
3/13/2019	0.43 (X)	
9/11/2019	<1	
3/9/2020		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	3.8282	
5/13/2016	3.56	
7/19/2016	5.6	
9/16/2016	6.7	
11/2/2016	8.1	
1/18/2017	8.9	
3/28/2017	8.2	
6/6/2017	7	
9/22/2017	8.3	
3/15/2018	5.1	
9/12/2018	5.6	
3/13/2019	4.4	
9/11/2019	5	
3/9/2020		3.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	14.7828	
5/16/2016	10.2	
7/25/2016	8.4	
9/19/2016	2.5	
11/3/2016	3.3	
1/19/2017	3.2	
3/28/2017	16 (J)	
6/5/2017	38	
7/20/2017	48	
9/26/2017	18	
3/15/2018	32.4	
9/12/2018	16	
3/14/2019	79.7 (O)	
9/11/2019	19.8	
3/10/2020		48.5

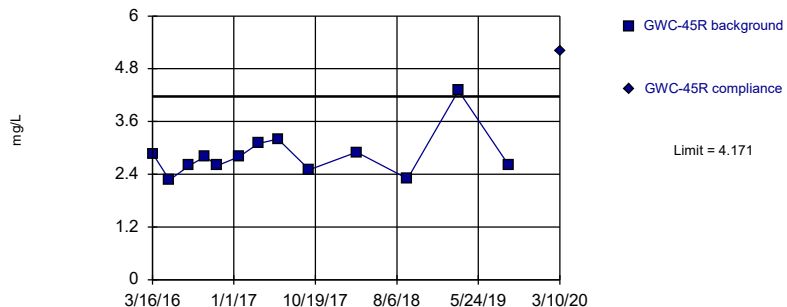
Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	0.00424 (J)	
5/16/2016	0.5151 (J)	
7/25/2016	<1 (*)	
9/19/2016	0.72 (J)	
11/4/2016	0.75 (J)	
1/23/2017	0.99 (J)	
3/29/2017	1.5	
6/7/2017	0.63 (J)	
9/27/2017	1.2	
3/15/2018	0.75 (J)	
9/13/2018	1.3	
3/14/2019	0.72 (X)	
9/11/2019	<1	
3/10/2020		0.61 (J)

Exceeds Limit

Prediction Limit
Intrawell Parametric

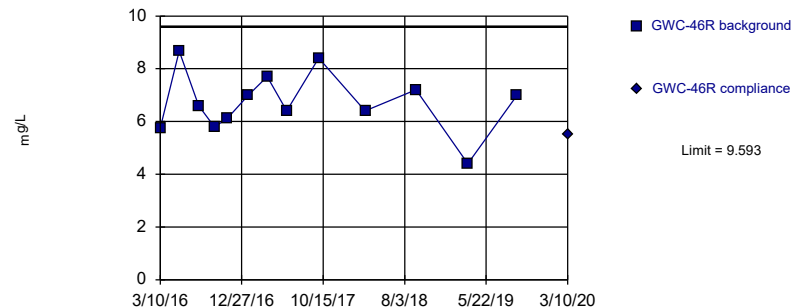


Background Data Summary (based on square root transformation): Mean=1.678, Std. Dev.=0.1456, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.852, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

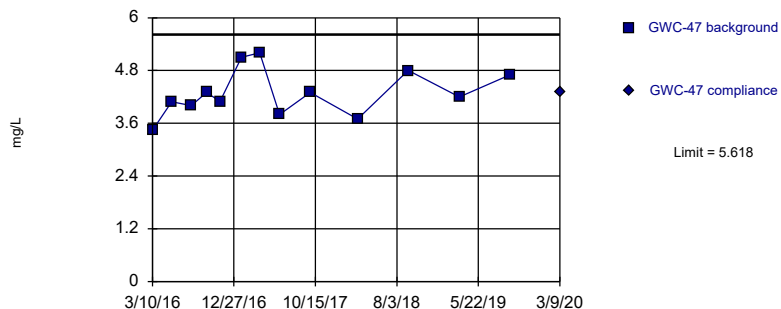


Background Data Summary: Mean=6.725, Std. Dev.=1.145, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9726, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

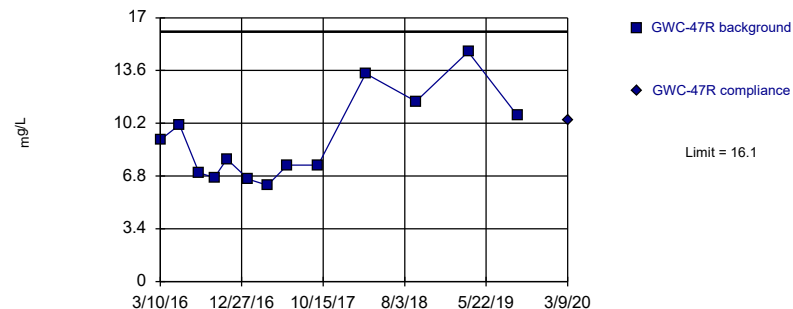


Background Data Summary: Mean=4.287, Std. Dev.=0.5315, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9587, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=9.164, Std. Dev.=2.771, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8903, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	2.8721	
5/16/2016	2.27	
7/25/2016	2.6	
9/19/2016	2.8	
11/3/2016	2.6	
1/20/2017	2.8	
3/29/2017	3.1	
6/7/2017	3.2	
9/27/2017	2.5	
3/15/2018	2.9	
9/13/2018	2.3	
3/14/2019	4.3	
9/11/2019	2.6	
3/10/2020		5.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	5.7554	
5/17/2016	8.67	
7/26/2016	6.6	
9/20/2016	5.8	
11/4/2016	6.1	
1/20/2017	7	
3/28/2017	7.7	
6/7/2017	6.4	
9/29/2017	8.4	
3/15/2018	6.4	
9/13/2018	7.2	
3/18/2019	4.4	
9/11/2019	7	
3/10/2020		5.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	3.4409	
5/18/2016	4.09	
7/27/2016	4	
9/20/2016	4.3	
11/7/2016	4.1	
1/23/2017	5.1	
3/29/2017	5.2	
6/8/2017	3.8	
9/27/2017	4.3	
3/15/2018	3.7	
9/13/2018	4.8	
3/15/2019	4.2	
9/12/2019	4.7	
3/9/2020		4.3

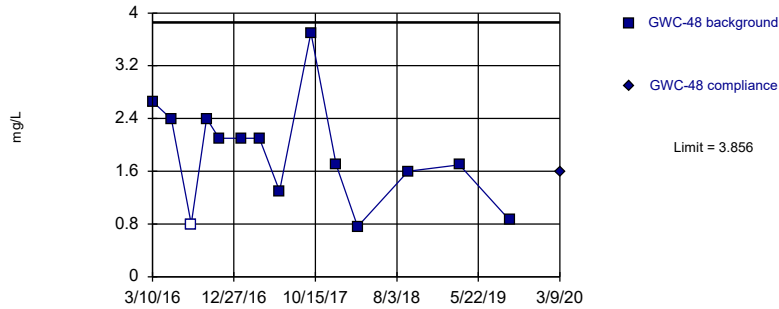
Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	9.1279	
5/18/2016	10.1	
7/27/2016	7	
9/20/2016	6.7	
11/4/2016	7.9	
1/20/2017	6.6	
3/29/2017	6.2	
6/8/2017	7.5	
9/27/2017	7.5	
3/16/2018	13.4	
9/13/2018	11.6	
3/19/2019	14.8	
9/11/2019	10.7	
3/9/2020		10.4

Within Limit

Prediction Limit
Intrawell Parametric

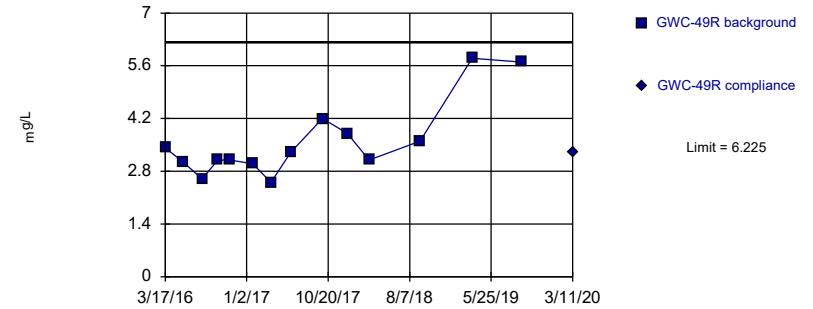


Background Data Summary: Mean=1.869, Std. Dev.=0.8101, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9427, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

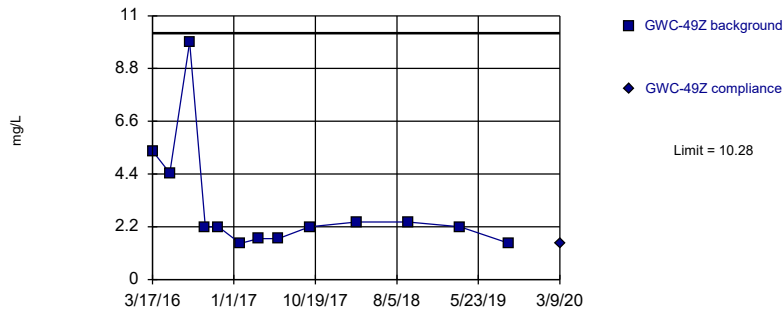


Background Data Summary (based on square root transformation): Mean=1.88, Std. Dev.=0.2508, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8429, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

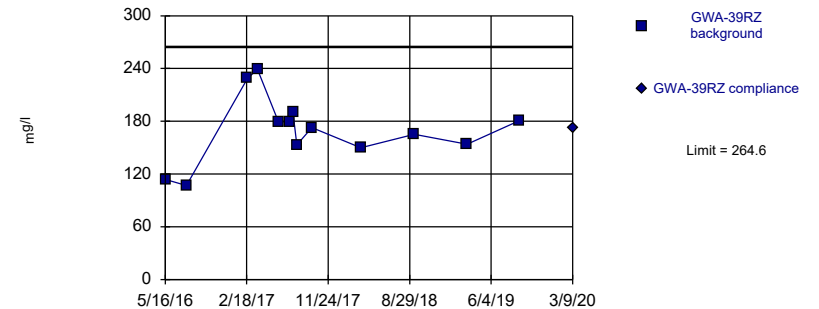


Background Data Summary (based on natural log transformation): Mean=0.9416, Std. Dev.=0.5543, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8165, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=170.3, Std. Dev.=37.67, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	2.6569	
5/17/2016	2.39	
7/27/2016	<1.6 (*)	
9/20/2016	2.4	
11/4/2016	2.1	
1/23/2017	2.1	
3/28/2017	2.1	
6/8/2017	1.3	
9/29/2017	3.7	
12/28/2017	1.7 (Y)	
3/15/2018	0.76 (J)	
9/13/2018	1.6	
3/15/2019	1.7	
9/11/2019	0.86 (X)	
3/9/2020		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	3.4197	
5/18/2016	3.06	
7/27/2016	2.6	
9/21/2016	3.1	
11/4/2016	3.1	
1/24/2017	3	
3/29/2017	2.5	
6/8/2017	3.3	
9/29/2017	4.2	
12/28/2017	3.8 (Y)	
3/15/2018	3.1	
9/13/2018	3.6	
3/18/2019	5.8	
9/11/2019	5.7	
3/11/2020		3.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

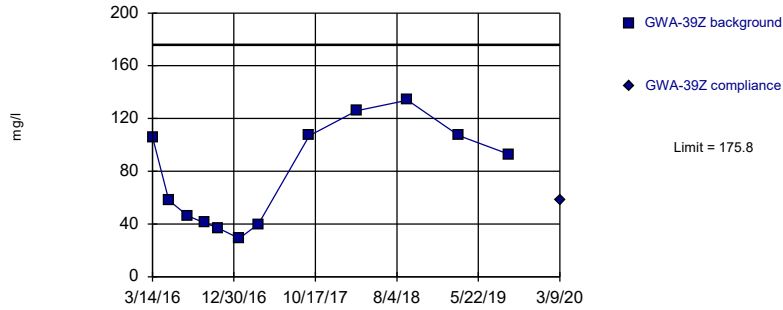
	GWC-49Z	GWC-49Z
3/17/2016	5.3658	
5/18/2016	4.44	
7/28/2016	9.9	
9/21/2016	2.2	
11/7/2016	2.2	
1/24/2017	1.5	
3/30/2017	1.7	
6/9/2017	1.7	
9/29/2017	2.2	
3/15/2018	2.4	
9/14/2018	2.4	
3/19/2019	2.2	
9/11/2019	1.5	
3/9/2020		1.5

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	114 (D)	
7/27/2016	107 (D)	
2/21/2017	229 (D)	
3/27/2017	239 (D)	
6/8/2017	179 (D)	
7/17/2017	180 (D)	
7/27/2017	190 (D)	
8/9/2017	153 (D)	
9/29/2017	173 (D)	
3/16/2018	150	
9/14/2018	165	
3/14/2019	154	
9/10/2019	181	
3/9/2020		173

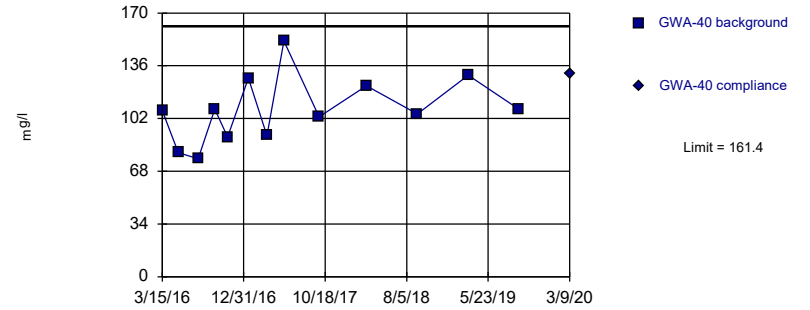
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=77, Std. Dev.=38.66, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.874, critical = 0.805. Kappa = 2.556 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

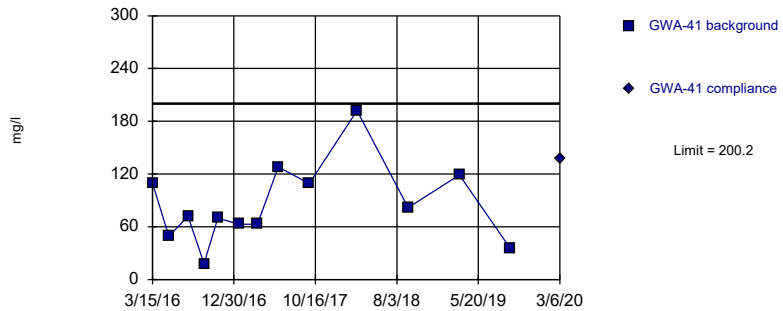
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=107.8, Std. Dev.=21.41, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

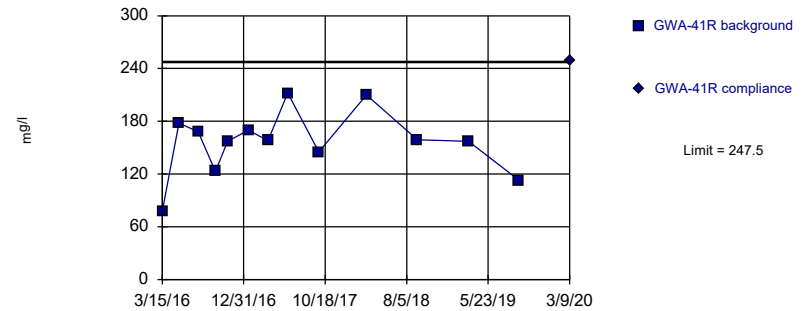
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=85.46, Std. Dev.=45.83, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=156, Std. Dev.=36.55, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9422, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	106	
5/11/2016	58	
7/19/2016	46	
9/15/2016	41	
11/2/2016	37	
1/18/2017	29	
3/28/2017	40	
9/26/2017	107	
3/14/2018	126	
9/12/2018	134	
3/15/2019	107	
9/9/2019	93	
3/9/2020		58

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	107	
5/11/2016	80	
7/21/2016	76	
9/19/2016	108	
11/3/2016	90	
1/17/2017	128	
3/24/2017	91	
5/24/2017	152	
9/26/2017	103	
3/14/2018	123	
9/12/2018	105	
3/13/2019	130	
9/9/2019	108	
3/9/2020		131

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	110	
5/12/2016	49	
7/20/2016	72	
9/15/2016	18 (J)	
11/3/2016	70	
1/18/2017	63	
3/24/2017	63	
6/6/2017	128	
9/25/2017	109	
3/14/2018	192	
9/12/2018	82	
3/14/2019	119	
9/10/2019	36	
3/6/2020		137

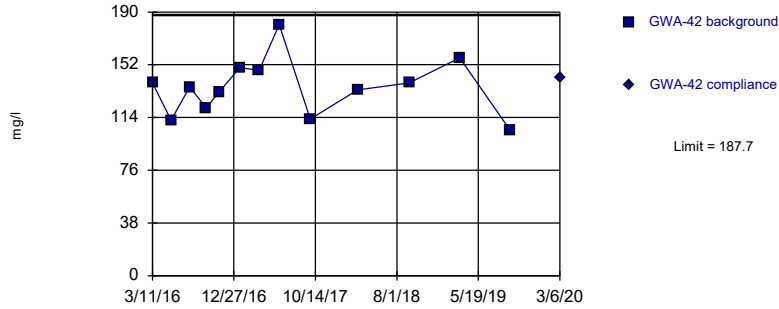
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	78	
5/13/2016	178	
7/21/2016	168	
9/21/2016	123	
11/3/2016	157	
1/17/2017	170	
3/27/2017	158	
6/6/2017	212	
9/25/2017	145	
3/14/2018	210	
9/12/2018	159	
3/14/2019	157	
9/10/2019	113	
3/9/2020		249

Within Limit

Prediction Limit
Intrawell Parametric

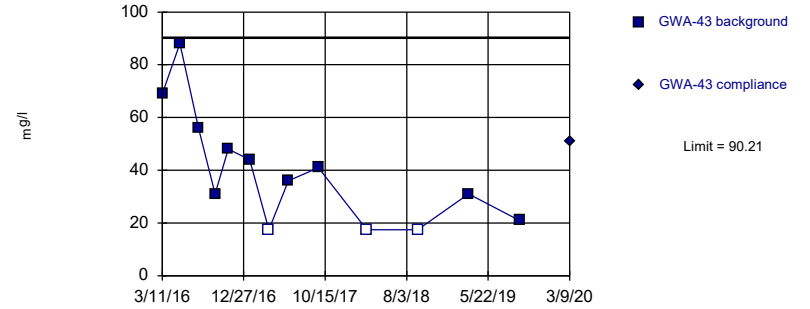


Background Data Summary: Mean=135.9, Std. Dev.=20.69, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

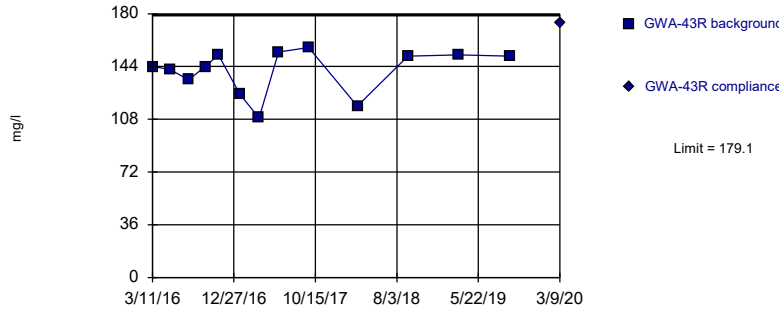


Background Data Summary (after Kaplan-Meier Adjustment): Mean=40.62, Std. Dev.=19.8, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9041, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

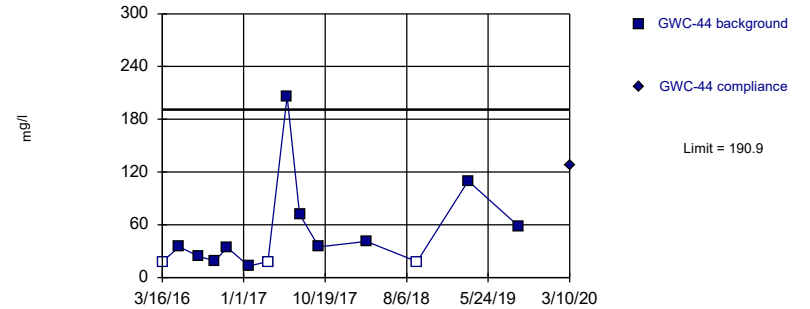


Background Data Summary: Mean=141, Std. Dev.=15.22, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8575, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=3.427, Std. Dev.=0.9504, n=14, 21.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8593, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	139	
5/16/2016	112	
7/22/2016	136	
9/19/2016	121	
11/3/2016	132	
1/17/2017	150	
3/27/2017	148	
6/7/2017	181	
9/26/2017	113	
3/14/2018	134	
9/14/2018	139	
3/14/2019	157	
9/10/2019	105	
3/6/2020		143

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	69	
5/13/2016	88	
7/19/2016	56	
9/16/2016	31	
11/2/2016	48	
1/18/2017	44	
3/28/2017	<35	
6/6/2017	36	
9/22/2017	41	
3/14/2018	<35	
9/12/2018	<35	
3/13/2019	31	
9/11/2019	21	
3/9/2020		51

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	144	
5/13/2016	142	
7/19/2016	135	
9/16/2016	144	
11/2/2016	152	
1/18/2017	125	
3/28/2017	109	
6/6/2017	154	
9/22/2017	157	
3/15/2018	117	
9/12/2018	151	
3/13/2019	152	
9/11/2019	151	
3/9/2020		174

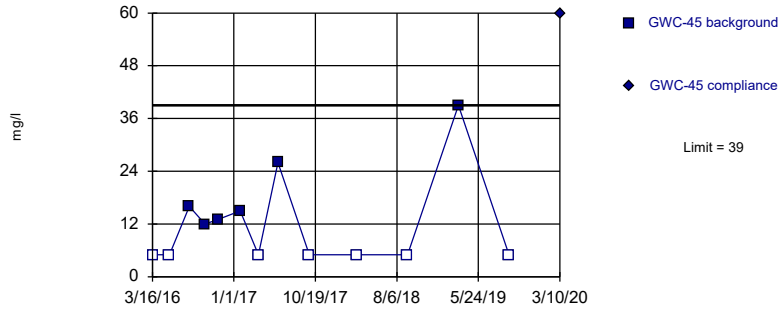
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<36	
5/16/2016	35	
7/25/2016	24 (J)	
9/19/2016	19 (J)	
11/3/2016	34	
1/19/2017	13 (J)	
3/28/2017	<36	
6/5/2017	206	
7/20/2017	72	
9/26/2017	35	
3/15/2018	41	
9/12/2018	<36	
3/14/2019	110	
9/11/2019	58	
3/10/2020		127

Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

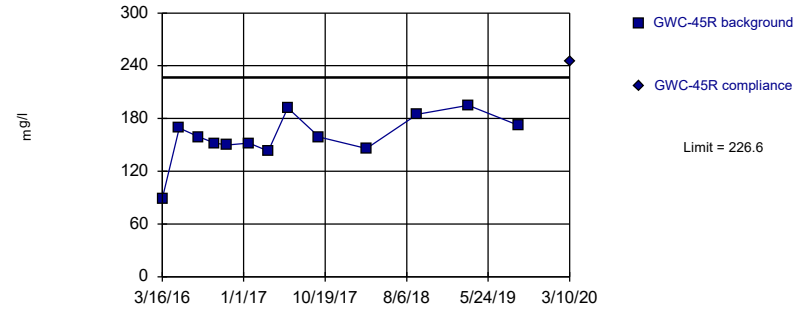


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
 Intrawell Parametric

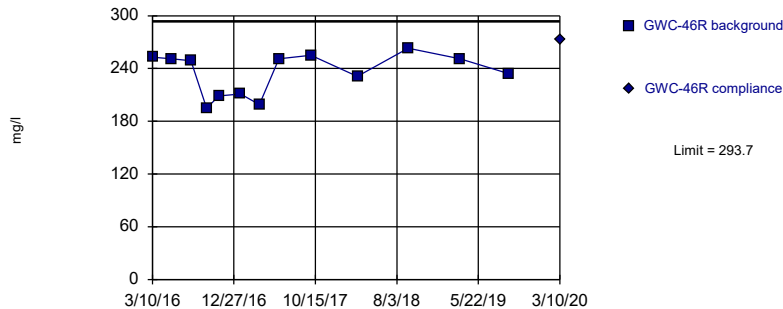


Background Data Summary: Mean=158.7, Std. Dev.=27.13, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8868, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

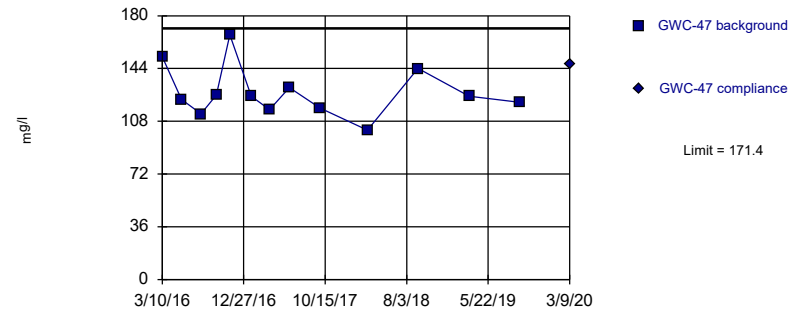


Background Data Summary: Mean=234.8, Std. Dev.=23.52, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8616, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=127.8, Std. Dev.=17.38, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	<10	
5/16/2016	<10	
7/25/2016	16 (J)	
9/19/2016	12 (J)	
11/4/2016	13 (J)	
1/23/2017	15 (J)	
3/29/2017	<10	
6/7/2017	26	
9/27/2017	<10	
3/15/2018	<10	
9/13/2018	<10	
3/14/2019	39 (X)	
9/11/2019	<10	
3/10/2020		60

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	89	
5/16/2016	169	
7/25/2016	159	
9/19/2016	152	
11/3/2016	150	
1/20/2017	152	
3/29/2017	143	
6/7/2017	192	
9/27/2017	159	
3/15/2018	146	
9/13/2018	185	
3/14/2019	195	
9/11/2019	172	
3/10/2020		245

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-46R
3/10/2016	253	
5/17/2016	251	
7/26/2016	249	
9/20/2016	195	
11/4/2016	209	
1/20/2017	211	
3/28/2017	199	
6/7/2017	251	
9/29/2017	255	
3/15/2018	231	
9/13/2018	263	
3/18/2019	251	
9/11/2019	234	
3/10/2020		273

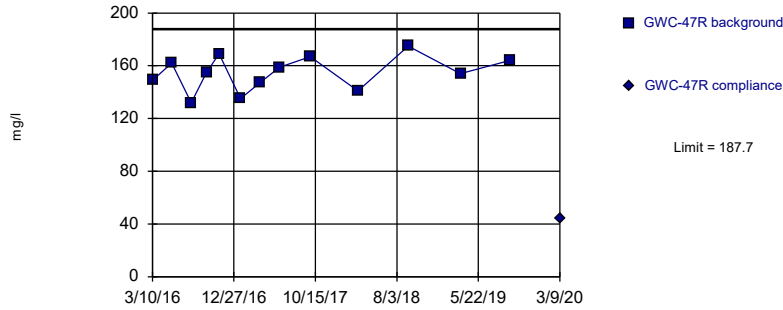
Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWC-47
3/10/2016	152	
5/18/2016	123	
7/27/2016	113	
9/20/2016	126	
11/7/2016	167	
1/23/2017	125	
3/29/2017	116	
6/8/2017	131	
9/27/2017	117	
3/15/2018	102	
9/13/2018	144	
3/15/2019	125	
9/12/2019	121	
3/9/2020		147

Within Limit

Prediction Limit
Intrawell Parametric

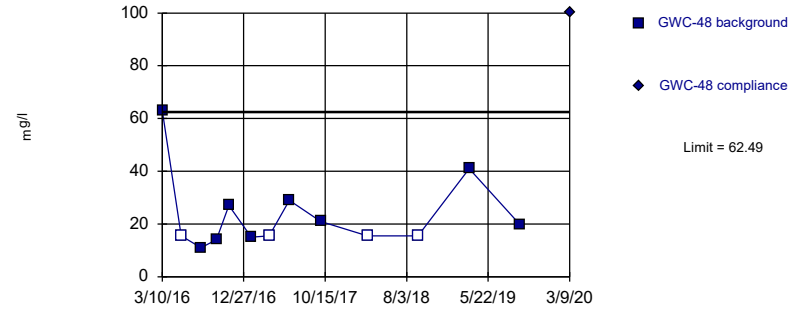


Background Data Summary: Mean=154.5, Std. Dev.=13.26, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

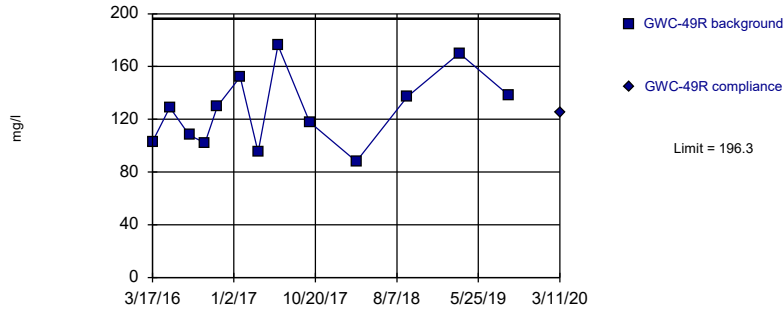


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=4.798, Std. Dev.=1.241, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8167, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

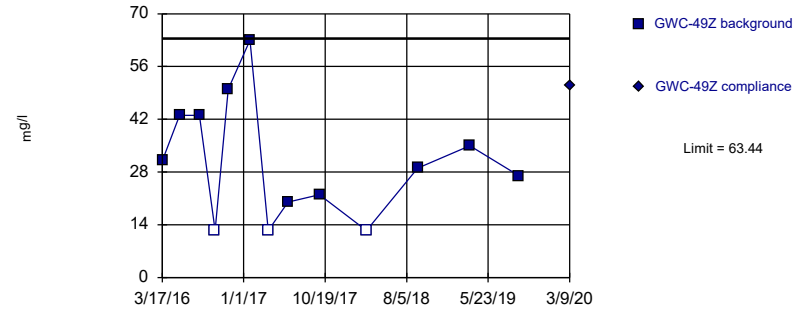


Background Data Summary: Mean=126.6, Std. Dev.=27.83, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9499, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=31.4, Std. Dev.=12.79, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:14 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	149	
5/18/2016	162	
7/27/2016	132	
9/20/2016	155	
11/4/2016	169	
1/20/2017	135	
3/29/2017	147	
6/8/2017	159	
9/27/2017	167	
3/16/2018	141	
9/13/2018	175	
3/19/2019	154	
9/11/2019	164	
3/9/2020		44

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-48
3/10/2016	63	
5/17/2016	<31	
7/27/2016	11 (J)	
9/20/2016	14 (J)	
11/4/2016	27	
1/23/2017	15 (J)	
3/28/2017	<31	
6/8/2017	29	
9/29/2017	21 (J)	
3/15/2018	<31	
9/13/2018	<31	
3/15/2019	41	
9/11/2019	20	
3/9/2020		100

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	103	
5/18/2016	129	
7/27/2016	108	
9/21/2016	102	
11/4/2016	130	
1/24/2017	152	
3/29/2017	95	
6/8/2017	176	
9/29/2017	118	
3/15/2018	88	
9/13/2018	137	
3/18/2019	170	
9/11/2019	138	
3/11/2020		125

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/17/2020 10:17 AM View: CCR PLs
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	31	
5/18/2016	43	
7/28/2016	43	
9/21/2016	<25	
11/7/2016	50	
1/24/2017	63	
3/30/2017	<25	
6/9/2017	20 (J)	
9/29/2017	22 (J)	
3/15/2018	<25	
9/14/2018	29	
3/19/2019	35	
9/11/2019	27	
3/9/2020		51

FIGURE I.

Interwell Prediction Limits (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:26 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-44	7.89	5.5	3/10/2020	4.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45	7.89	5.5	3/10/2020	4.98	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-48	7.89	5.5	3/9/2020	5.18	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49R	7.89	5.5	3/11/2020	8.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2

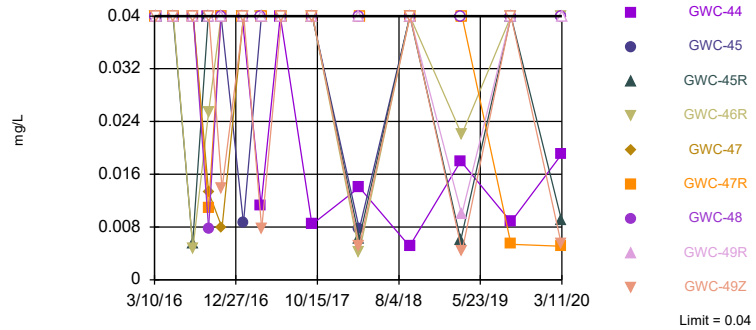
Interwell Prediction Limits (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.04	n/a	3/10/2020	0.019	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45	0.04	n/a	3/10/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45R	0.04	n/a	3/10/2020	0.009	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-46R	0.04	n/a	3/10/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47	0.04	n/a	3/9/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47R	0.04	n/a	3/9/2020	0.0051	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-48	0.04	n/a	3/9/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49R	0.04	n/a	3/11/2020	0.04ND	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49Z	0.04	n/a	3/9/2020	0.0055	112	n/a	n/a	62.5	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-44	0.3	n/a	3/10/2020	0.13	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45R	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-46R	0.3	n/a	3/10/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47R	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-48	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49R	0.3	n/a	3/11/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49Z	0.3	n/a	3/9/2020	0.3ND	112	n/a	n/a	54.46	n/a	n/a	0.0001579	NP (NDs) 1 of 2
pH (pH units)	GWC-44	7.89	5.5	3/10/2020	4.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45	7.89	5.5	3/10/2020	4.98	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-45R	7.89	5.5	3/10/2020	7.05	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-46R	7.89	5.5	3/10/2020	7.44	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-47	7.89	5.5	3/9/2020	7.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-47R	7.89	5.5	3/9/2020	7.51	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-48	7.89	5.5	3/9/2020	5.18	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49R	7.89	5.5	3/11/2020	8.19	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2
pH (pH units)	GWC-49Z	7.89	5.5	3/9/2020	5.6	117	n/a	n/a	0	n/a	n/a	0.0002868	NP (normality) 1 of 2

Within Limit

Prediction Limit
 Interwell Non-parametric



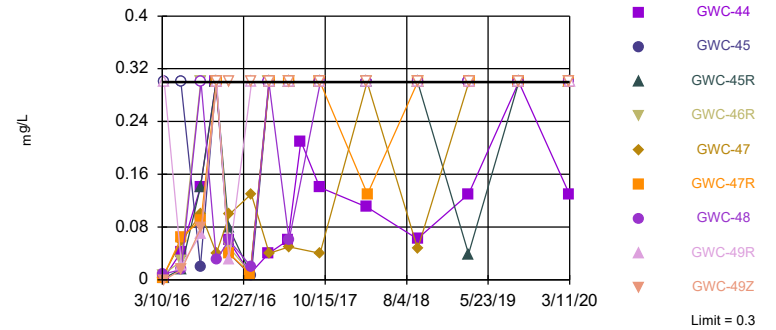
Limit = 0.04

Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 112 background values. 62.5% NDs. Annual per-constituent alpha = 0.002838. Individual comparison alpha = 0.0001579 (1 of 2). Comparing 9 points to limit.

Constituent: Boron Analysis Run 4/17/2020 10:19 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Interwell Non-parametric



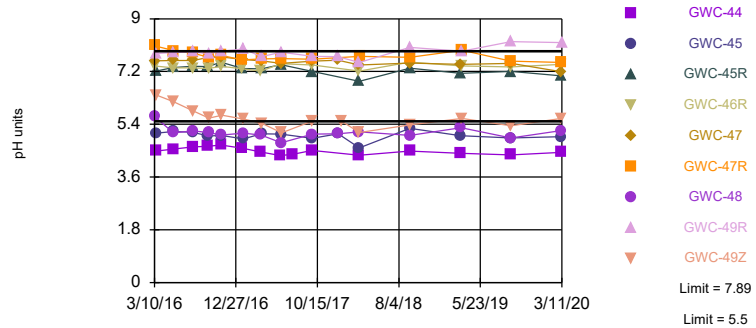
Limit = 0.3

Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 112 background values. 54.46% NDs. Annual per-constituent alpha = 0.002838. Individual comparison alpha = 0.0001579 (1 of 2). Comparing 9 points to limit.

Constituent: Fluoride Analysis Run 4/17/2020 10:19 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limits: GWC-44, GWC-45, GWC-48, GWC-49R

Prediction Limit
 Interwell Non-parametric



Limit = 7.89

Limit = 5.5

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 117 background values. Annual per-constituent alpha = 0.005156. Individual comparison alpha = 0.0002868 (1 of 2). Comparing 9 points to limit.

Constituent: pH Analysis Run 4/17/2020 10:19 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/17/2020 10:21 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39RZ (bg)
3/10/2016								
3/11/2016								
3/14/2016								
3/15/2016	<0.04	<0.04						
3/16/2016			<0.04	<0.04	<0.04			
3/17/2016						<0.04	<0.04	
5/11/2016		<0.04						
5/12/2016								
5/13/2016	<0.04							
5/16/2016			<0.04	<0.04	<0.04			<0.04 (D)
5/17/2016								
5/18/2016						<0.04	<0.04	
7/19/2016								
7/20/2016								
7/21/2016	<0.04 (*)	<0.04						
7/22/2016								
7/25/2016			0.0054 (J)	<0.04	<0.04			
7/26/2016								
7/27/2016							<0.04 (*)	<0.04 (*)
7/28/2016						<0.04 (*)		
9/15/2016		<0.04						
9/16/2016								
9/19/2016			<0.04	<0.04	<0.04			
9/20/2016								
9/21/2016	<0.04 (*)					<0.04 (*)	<0.04 (*)	
11/2/2016								
11/3/2016	<0.04	<0.04 (*)	<0.04		<0.04			
11/4/2016				<0.04			<0.04	
11/7/2016						0.0138 (J)		
1/17/2017	<0.04	<0.04						
1/18/2017								
1/19/2017					<0.04			
1/20/2017			<0.04					
1/23/2017				0.0086 (J)				
1/24/2017						<0.04	<0.04	
2/21/2017								0.0218 (JD)
3/24/2017		<0.04						
3/27/2017	0.0173 (J)							0.0262 (JD)
3/28/2017					0.0113 (J)			
3/29/2017			<0.04	<0.04			<0.04	
3/30/2017						0.0077 (J)		
5/24/2017		<0.04						
6/5/2017					<0.04 (*)			
6/6/2017	<0.04 (*)							
6/7/2017			<0.04 (*)	<0.04 (*)				
6/8/2017							<0.04	0.0067 (JD)
6/9/2017						<0.04		
7/17/2017								0.0165 (JD)
7/27/2017								0.0138 (JD)
8/9/2017								0.0069 (JD)
9/22/2017								
9/25/2017	0.0141 (J)							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/17/2020 10:21 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49Z	GWC-49R	GWA-39RZ (bg)
9/26/2017		0.0075 (J)			0.0084 (J)			
9/27/2017			<0.04	<0.04				
9/29/2017						<0.04	<0.04	0.0066 (JD)
3/14/2018	0.014 (J)	0.0093 (J)						
3/15/2018			0.0063 (J)	0.0077 (J)	0.014 (J)	0.0052 (J)	<0.04	
3/16/2018								0.0067 (J)
9/12/2018	0.013 (J)	<0.04			0.0051 (J)			
9/13/2018			<0.04	<0.04			<0.04	
9/14/2018						<0.04		0.0059 (J)
3/13/2019		<0.04						
3/14/2019	0.015 (X)		0.006 (X)	<0.04	0.018 (X)			0.0059 (X)
3/15/2019								
3/18/2019							0.0099 (X)	
3/19/2019						0.0043 (X)		
9/9/2019		<0.04						
9/10/2019	0.015 (X)							0.0081 (X)
9/11/2019			<0.04	<0.04	0.0088 (X)	<0.04	<0.04	
9/12/2019								
3/6/2020								
3/9/2020	0.021 (J)	0.0074 (J)				0.0055 (J)		0.0065 (J)
3/10/2020			0.009 (J)	<0.04	0.019 (J)			
3/11/2020							<0.04	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/17/2020 10:21 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWC-48	GWC-47	GWC-47R	GWA-43 (bg)	GWA-43R (bg)	GWA-42 (bg)	GWA-39Z (bg)	GWA-40 (bg)
3/10/2016	0.00697 (J)	0.00797 (J)	0.00337 (J)	0.00202 (J)					
3/11/2016					0.0329 (J)	0.0141 (J)	0.0296 (J)		
3/14/2016								0.0657 (J)	
3/15/2016									<0.3
3/16/2016									
3/17/2016									
5/11/2016								0.0401 (J)	0.0255 (J)
5/12/2016									
5/13/2016					0.0459 (J)	0.0141 (J)			
5/16/2016							0.0287 (J)		
5/17/2016	0.0281 (J)	0.0156 (J)							
5/18/2016			0.059 (J)	0.065 (J)					
7/19/2016					<0.3	<0.3		<0.3	
7/20/2016									
7/21/2016									<0.3
7/22/2016							0.04 (J)		
7/25/2016									
7/26/2016	<0.3								
7/27/2016		<0.3	0.1 (J)	0.09 (J)					
7/28/2016									
9/15/2016								<0.3	
9/16/2016					<0.3	<0.3			
9/19/2016							<0.3		<0.3
9/20/2016	<0.3	0.03 (J)	0.04 (J)	<0.3					
9/21/2016									
11/2/2016					0.04 (J)	0.04 (J)		0.04 (J)	
11/3/2016							0.04 (J)		0.11 (J)
11/4/2016	0.05 (J)	0.06 (J)		0.04 (J)					
11/7/2016			0.1 (J)						
1/17/2017							0.02 (J)		0.02 (J)
1/18/2017					<0.3	0.02 (J)		0.03 (J)	
1/19/2017									
1/20/2017	0.01 (J)			0.009 (J)					
1/23/2017		0.02 (J)	0.13 (J)						
1/24/2017									
2/21/2017									
3/24/2017									<0.3
3/27/2017							<0.3		
3/28/2017	<0.3	<0.3			<0.3	<0.3		0.06 (J)	
3/29/2017			0.04 (J)	<0.3					
3/30/2017									
5/24/2017									<0.3
6/5/2017									
6/6/2017					<0.3	<0.3			
6/7/2017	<0.3						<0.3	0.06 (J)	
6/8/2017		0.06 (J)	0.05 (J)	<0.3 (*)					
6/9/2017									
7/17/2017									
7/20/2017									
7/27/2017									
8/9/2017									
9/22/2017					<0.3	<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/17/2020 10:21 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49R	GWC-49Z	GWA-39RZ (bg)
9/25/2017	<0.3	<0.3						
9/26/2017					0.14 (J)			
9/27/2017			<0.3	<0.3				
9/29/2017						<0.3	<0.3	0.04 (JD)
3/14/2018	<0.3	<0.3						
3/15/2018			<0.3	<0.3	0.11 (J)	<0.3	<0.3	
3/16/2018								0.27 (J)
9/12/2018	<0.3	<0.3			0.062 (J)			
9/13/2018			<0.3	<0.3		<0.3		
9/14/2018							<0.3	0.1 (J)
3/13/2019								
3/14/2019	0.04 (X)	0.039 (X)	0.039 (X)	<0.3	0.13 (X)			0.066 (X)
3/15/2019								
3/18/2019						<0.3		
3/19/2019							<0.3	
9/9/2019								
9/10/2019	<0.3	<0.3						0.055 (X)
9/11/2019			<0.3	<0.3	<0.3	<0.3	<0.3	
9/12/2019								
3/6/2020		<0.3						
3/9/2020	<0.3						<0.3	<0.3
3/10/2020			<0.3	<0.3	0.13 (J)			
3/11/2020						<0.3		

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/17/2020 10:21 AM View: CCR PL's Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R (bg)	GWA-40 (bg)	GWC-45R	GWC-45	GWC-44	GWC-49R	GWC-49Z	GWA-39RZ (bg)
8/9/2017								7.73
9/22/2017								
9/25/2017	6.88							
9/26/2017		7.66			4.51			
9/27/2017			7.2	4.92				
9/29/2017						7.72	5.51	7.7 (D)
12/28/2017		7.34 (Y)				7.71 (Y)		
12/29/2017				5.08 (Y)				
1/10/2018							5.51 (Y)	
3/14/2018	7.04	7.56						
3/15/2018			6.87	4.6	4.34	7.51	5.12	
3/16/2018								7.49
9/12/2018	7.02	7.12			4.49			
9/13/2018			7.31	5.26		8.02		
9/14/2018							5.38	7.32
3/13/2019		7.12						
3/14/2019	6.93		7.14	5.01	4.41			7.46
3/15/2019								
3/18/2019						7.89		
3/19/2019							5.6	
9/9/2019		7.07						
9/10/2019	6.72							7.48
9/11/2019			7.2	4.93	4.36	8.22	5.35	
9/12/2019								
3/6/2020								
3/9/2020	6.7	7.5					5.6	7.68
3/10/2020			7.05	4.98	4.44			
3/11/2020						8.19		

FIGURE J.

Trend Test Summary (CCR) - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-42 (bg)	1.37	46	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43 (bg)	-2.809	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1705	-50	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41R (bg)	-0.1285	-59	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43 (bg)	-0.2715	-81	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.222	-53	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.3274	-60	-44	Yes	14	14.29	n/a	n/a	0.02	NP

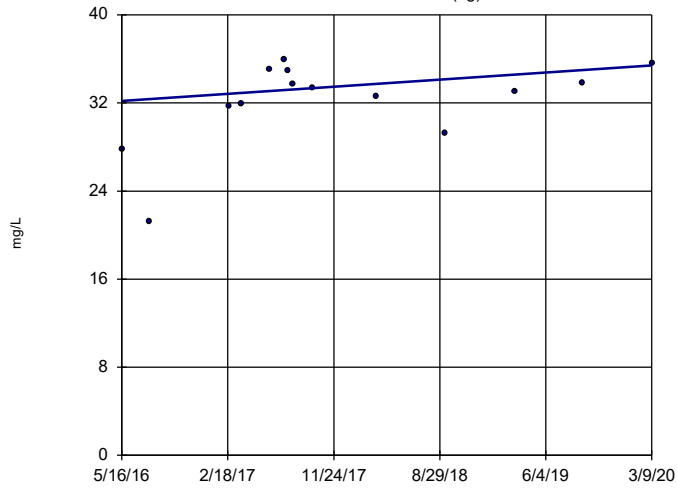
Trend Test Summary (CCR) - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/17/2020, 10:40 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-39RZ (bg)	0.8466	27	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-39Z (bg)	3.1	27	48	No	15	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-40 (bg)	0.8512	14	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-41 (bg)	1.53	15	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-41R (bg)	-1.923	-34	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-42 (bg)	1.37	46	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43 (bg)	-2.809	-83	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-43R (bg)	1.003	40	48	No	15	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-45R	1.881	35	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39RZ (bg)	-0.06289	-4	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1705	-50	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-40 (bg)	0.1591	23	48	No	15	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-41 (bg)	-0.1257	-25	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4888	-38	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-42 (bg)	0.2544	26	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-43 (bg)	0	3	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-43R (bg)	-0.07549	-4	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-45R	0.1184	24	44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-39RZ (bg)	-0.03667	-27	-53	No	16	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-39Z (bg)	0.09672	13	48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-40 (bg)	-0.01848	-13	-53	No	16	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41 (bg)	0.04112	7	39	No	13	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-41R (bg)	-0.1285	-59	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-42 (bg)	0.007074	10	44	No	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43 (bg)	-0.2715	-81	-44	Yes	14	0	n/a	n/a	0.02	NP
pH (pH units)	GWA-43R (bg)	-0.02739	-35	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-44	-0.06045	-40	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-45	-0.03496	-30	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-48	-0.03869	-18	-48	No	15	0	n/a	n/a	0.02	NP
pH (pH units)	GWC-49R	0.07032	23	48	No	15	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39RZ (bg)	1.474	8	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.222	-53	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1962	26	48	No	15	6.667	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-41 (bg)	0.3359	10	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-41R (bg)	1.016	27	44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-42 (bg)	0.1365	27	44	No	14	7.143	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.3274	-60	-44	Yes	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3022	-6	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-45R	0.2672	25	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-39RZ (bg)	-2.179	-2	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-39Z (bg)	6.184	12	39	No	13	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-40 (bg)	8.873	40	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-41 (bg)	14.67	24	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-41R (bg)	10.03	12	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-42 (bg)	2.709	12	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-43 (bg)	-11.12	-39	-44	No	14	21.43	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWA-43R (bg)	5.083	26	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-45	0	14	44	No	14	50	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-45R	16.64	37	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/l)	GWC-48	2.852	27	44	No	14	28.57	n/a	n/a	0.02	NP

Sen's Slope Estimator

GWA-39RZ (bg)

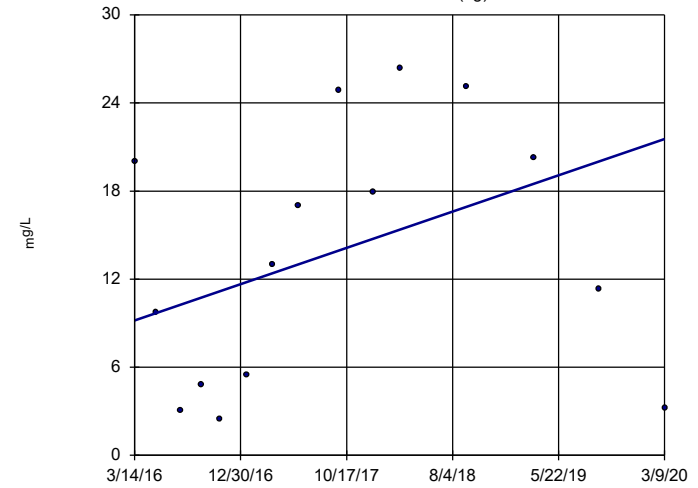


n = 14
 Slope = 0.8466
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39Z (bg)

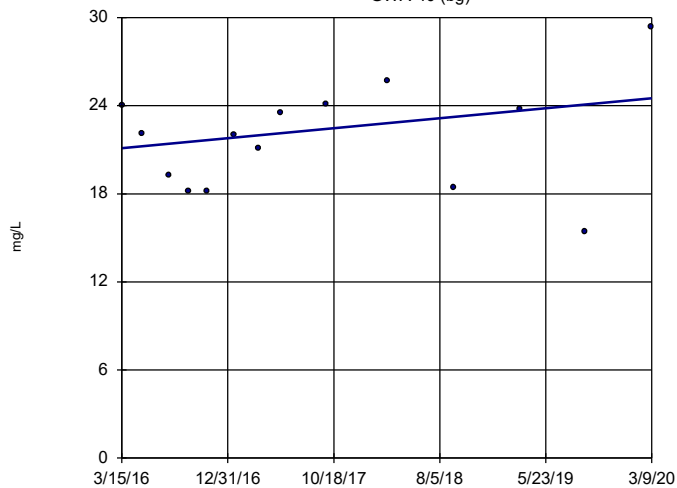


n = 15
 Slope = 3.1
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 48
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-40 (bg)

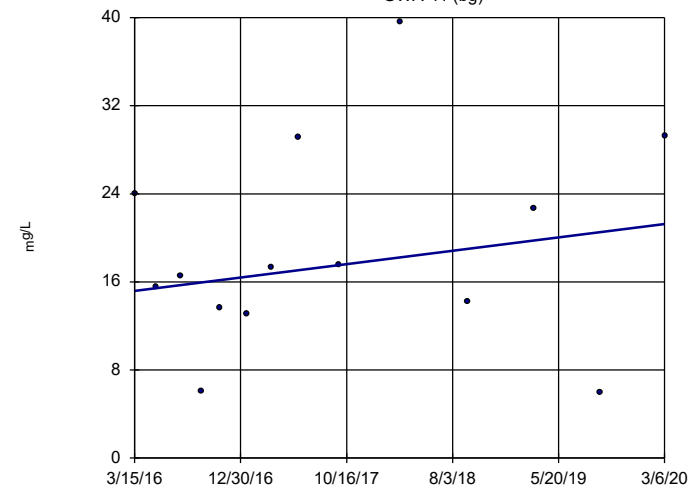


n = 14
 Slope = 0.8512
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)

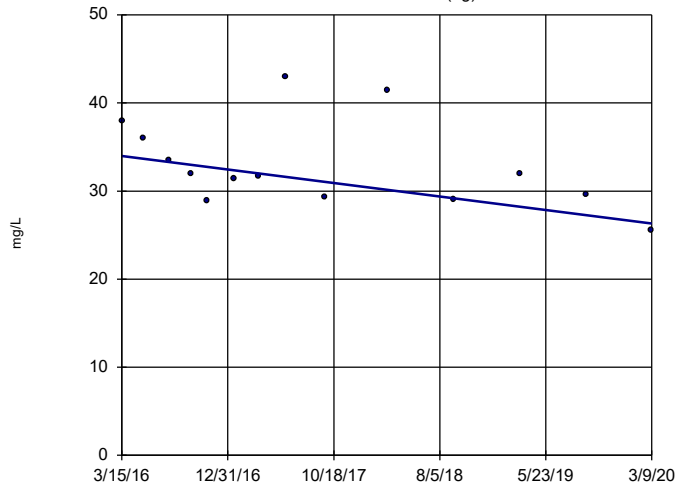


n = 14
 Slope = 1.53
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

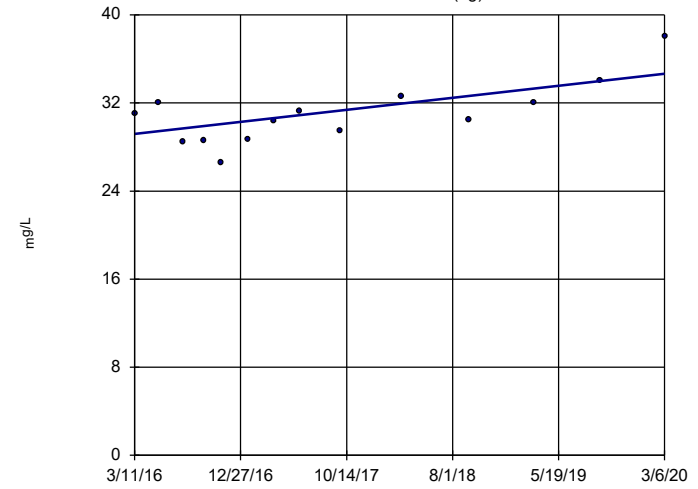


n = 14
 Slope = -1.923
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-42 (bg)

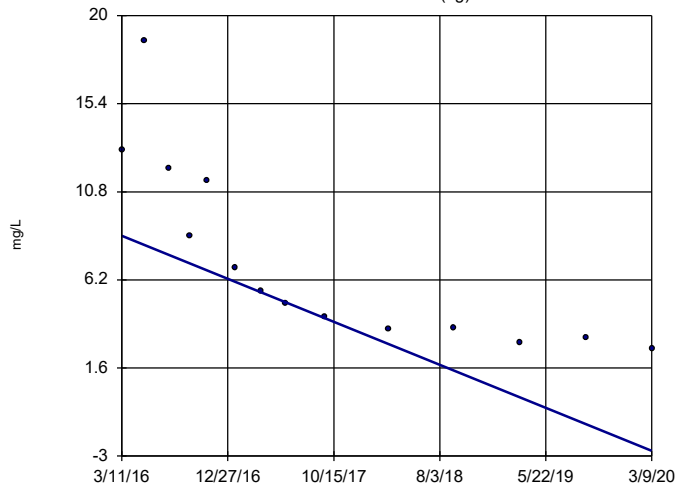


n = 14
 Slope = 1.37
 units per year.
 Mann-Kendall
 statistic = 46
 critical = 44
 Increasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43 (bg)

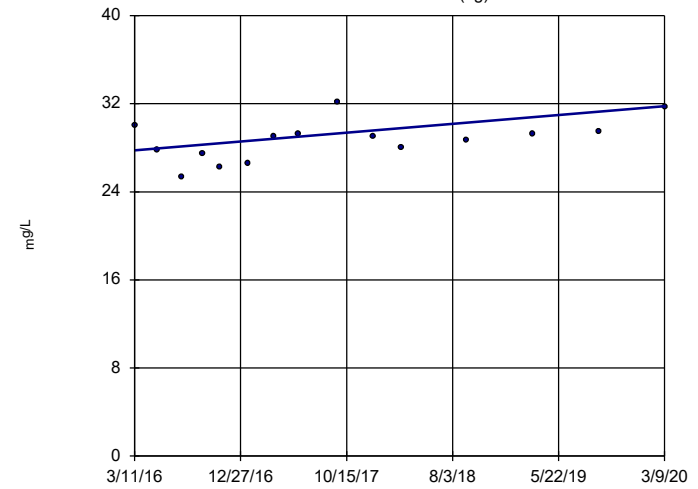


n = 14
 Slope = -2.809
 units per year.
 Mann-Kendall
 statistic = -83
 critical = -44
 Decreasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43R (bg)

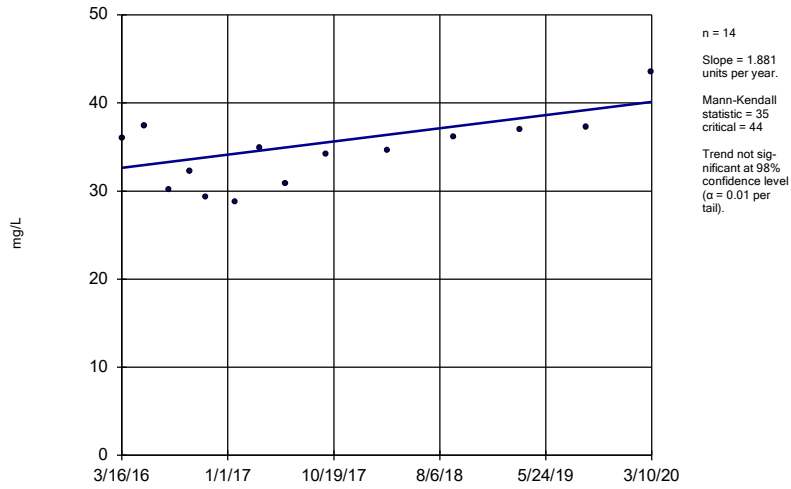


n = 15
 Slope = 1.003
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 48
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

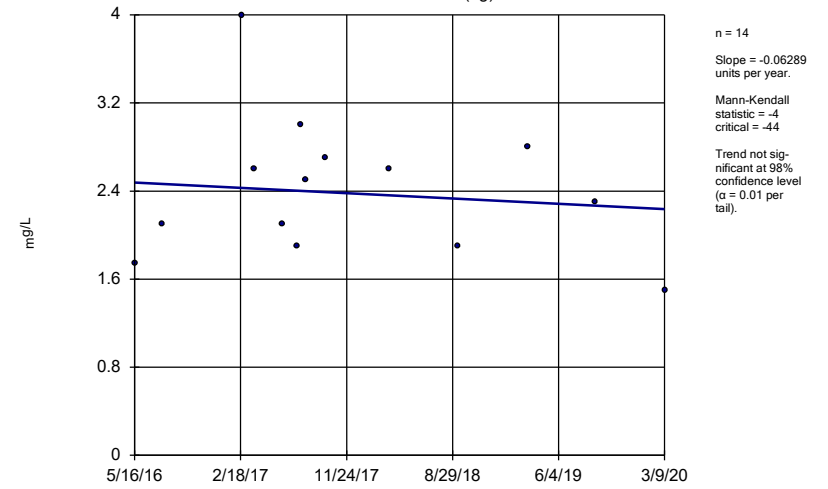
GWC-45R



Constituent: Calcium Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

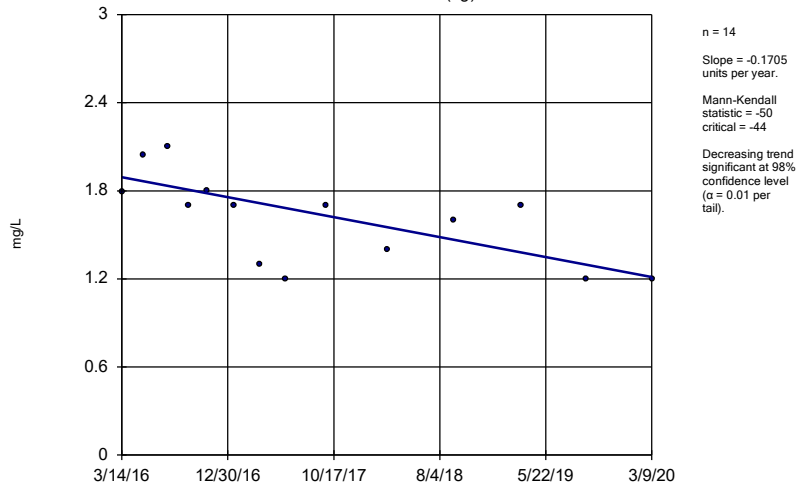
GWA-39RZ (bg)



Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

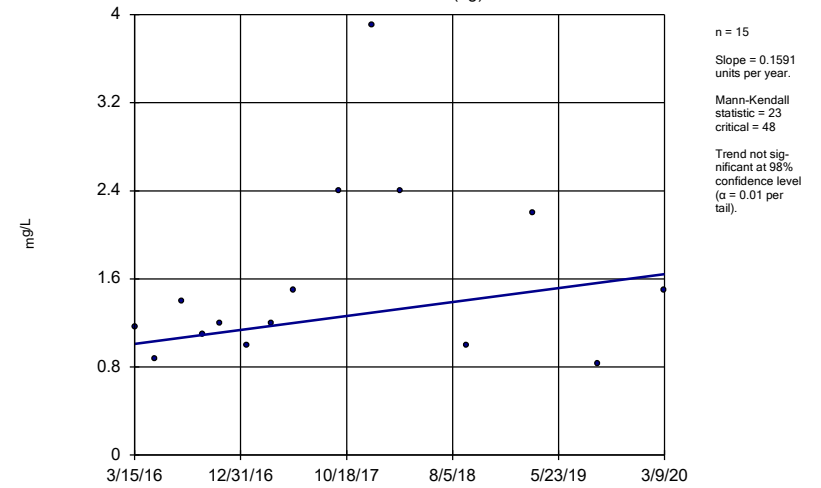
GWA-39Z (bg)



Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

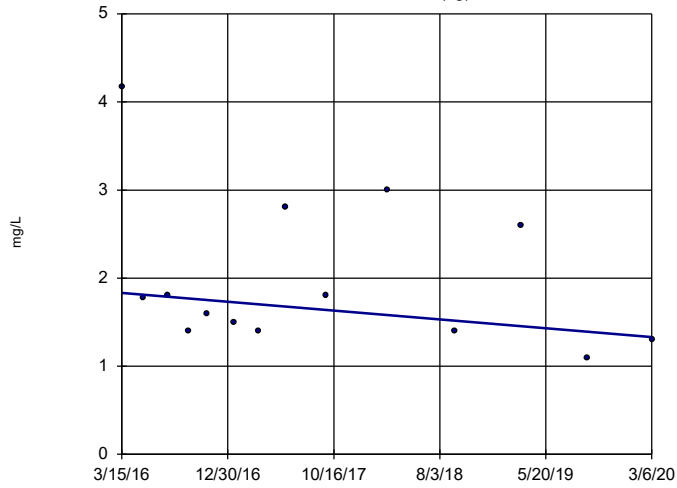
GWA-40 (bg)



Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)

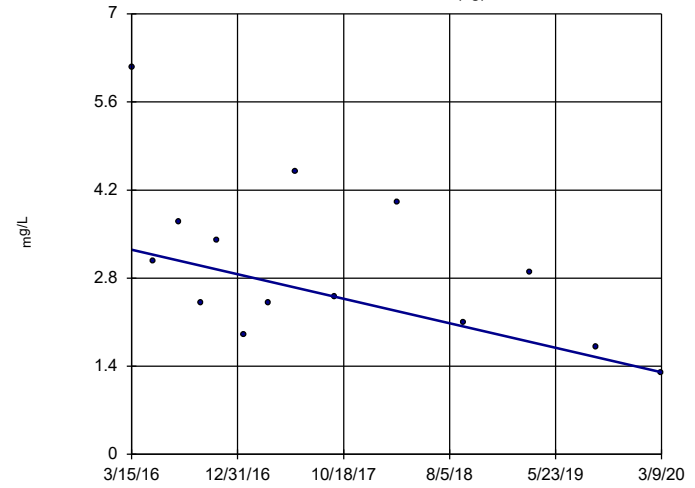


n = 14
 Slope = -0.1257
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

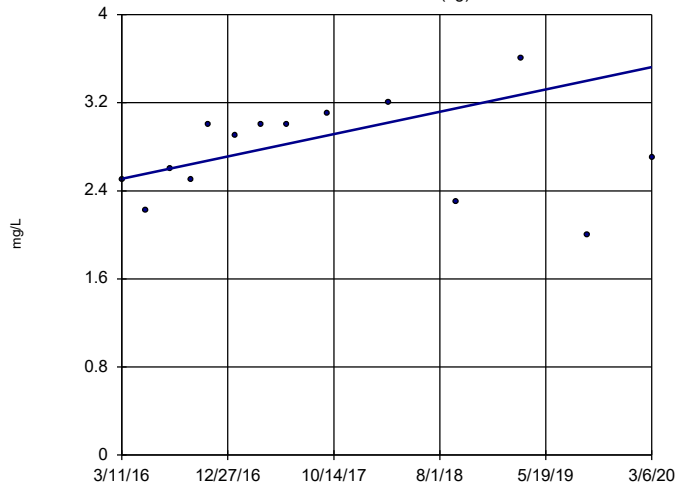


n = 14
 Slope = -0.4888
 units per year.
 Mann-Kendall
 statistic = -38
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-42 (bg)

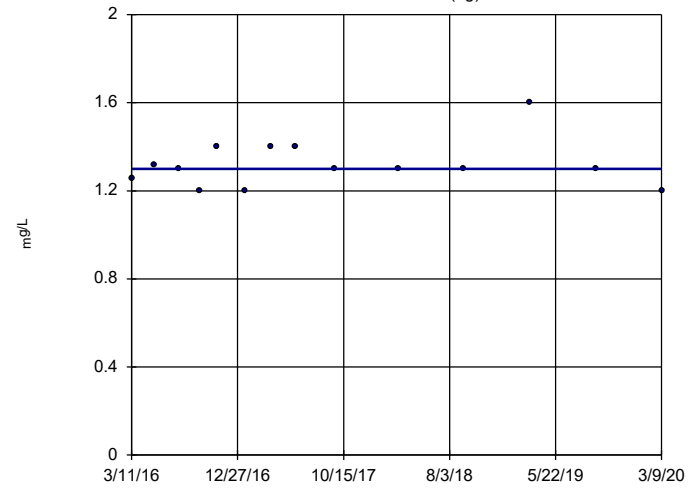


n = 14
 Slope = 0.2544
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43 (bg)

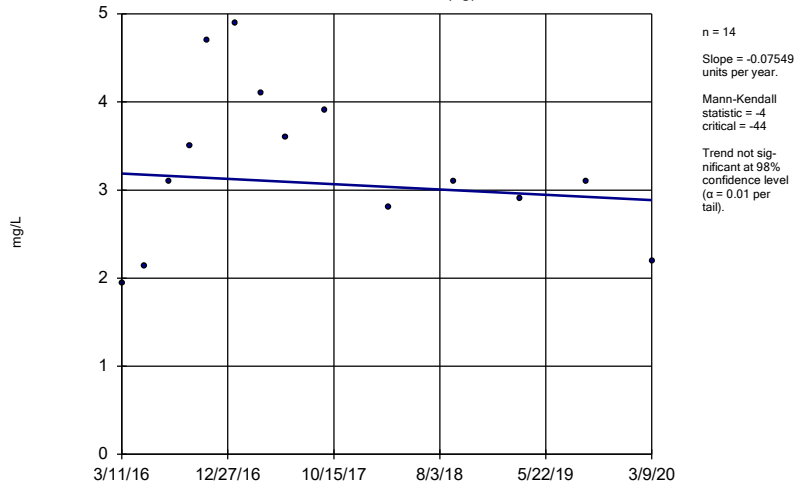


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

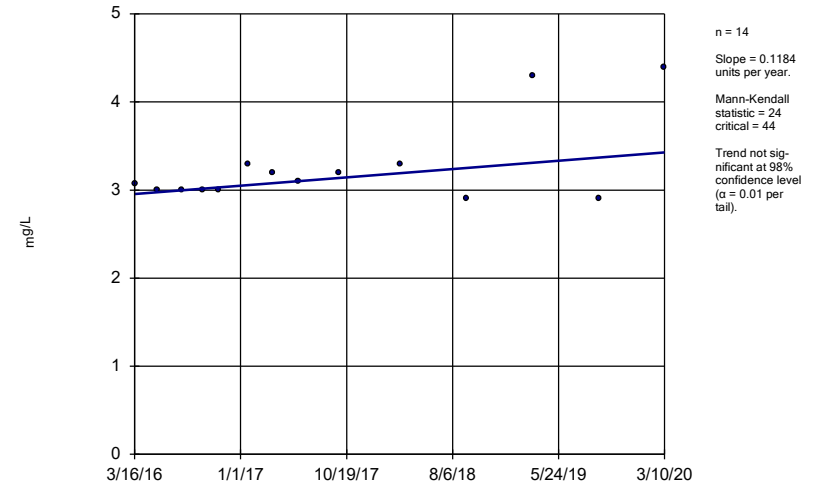
GWA-43R (bg)



Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

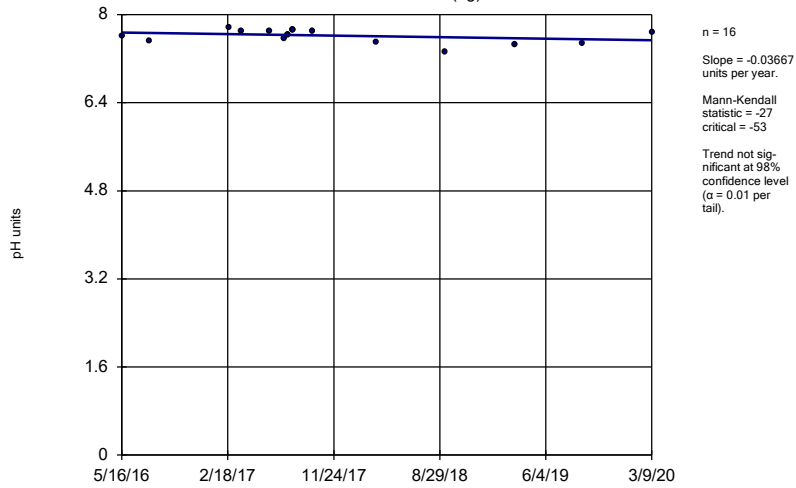
GWC-45R



Constituent: Chloride Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

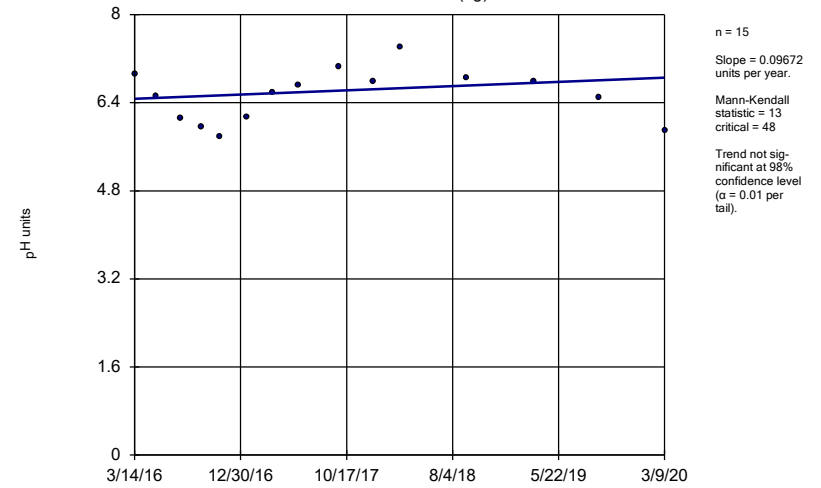
GWA-39RZ (bg)



Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

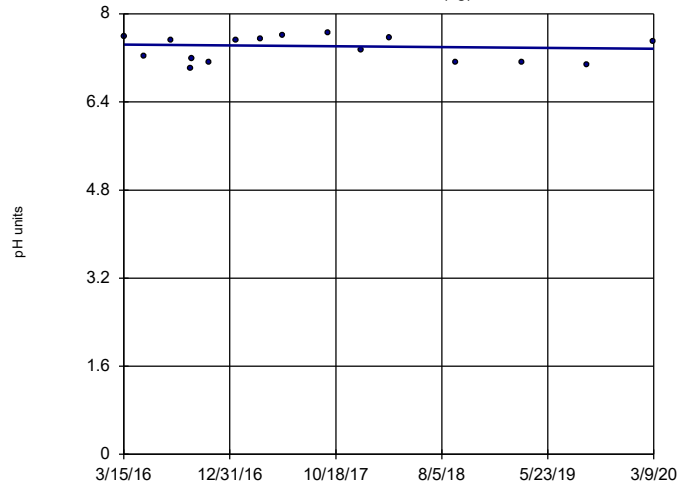
GWA-39Z (bg)



Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-40 (bg)

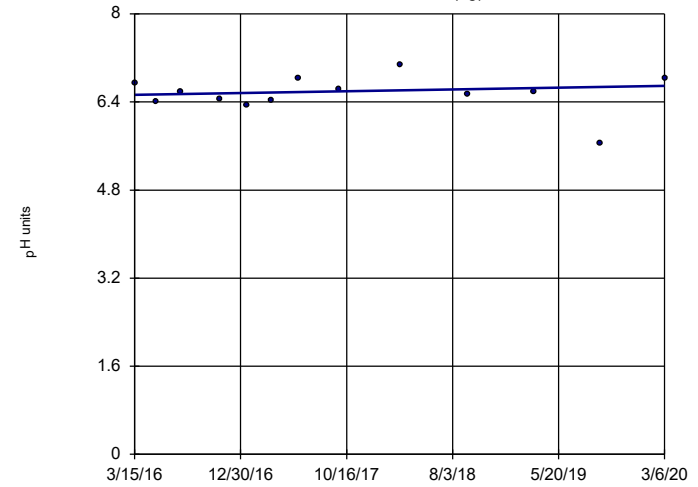


n = 16
 Slope = -0.01848 units per year.
 Mann-Kendall statistic = -13
 critical = -53
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)

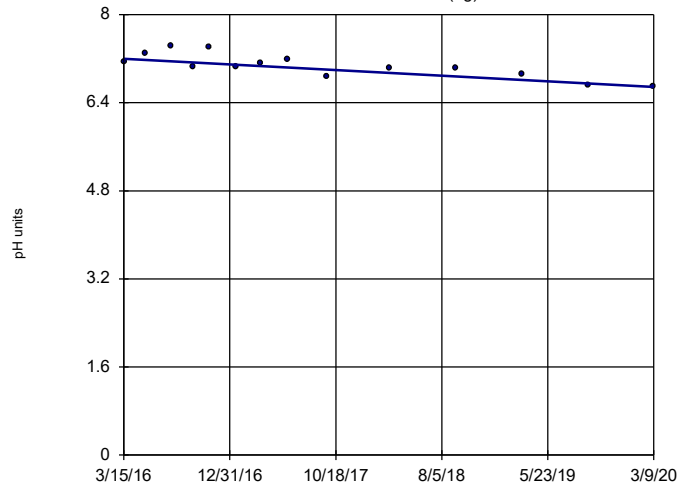


n = 13
 Slope = 0.04112 units per year.
 Mann-Kendall statistic = 7
 critical = 39
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

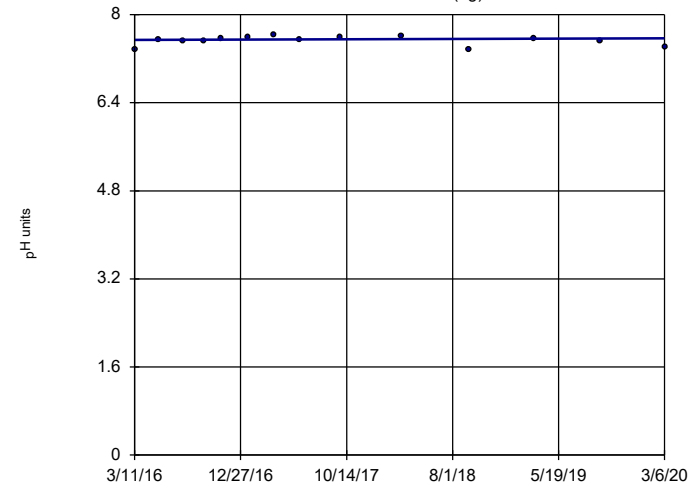


n = 14
 Slope = -0.1285 units per year.
 Mann-Kendall statistic = -59
 critical = -44
 Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-42 (bg)

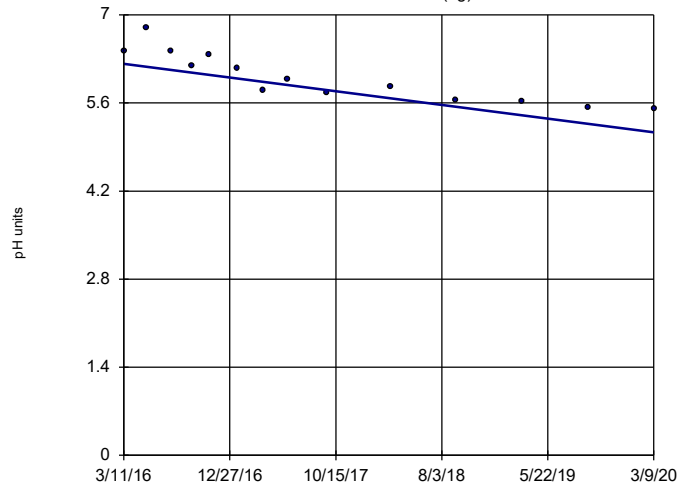


n = 14
 Slope = 0.007074 units per year.
 Mann-Kendall statistic = 10
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

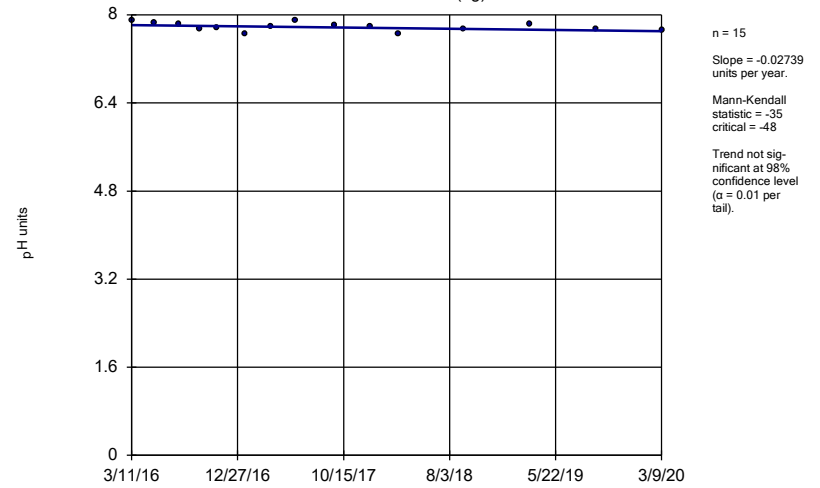
GWA-43 (bg)



Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

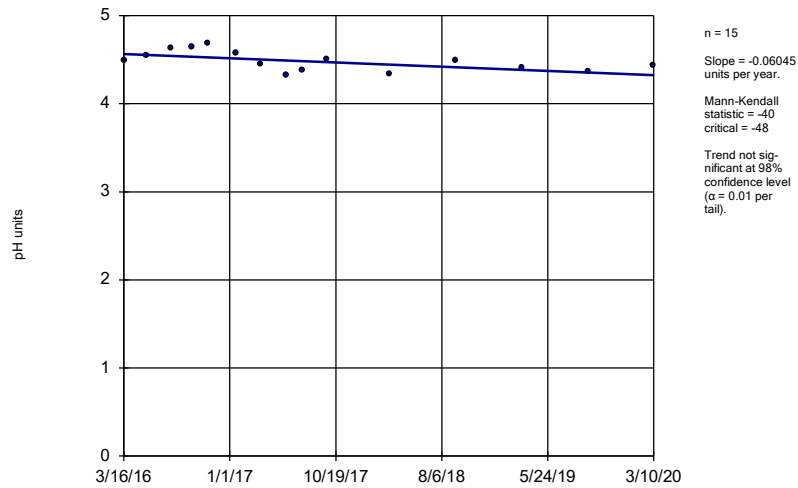
GWA-43R (bg)



Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

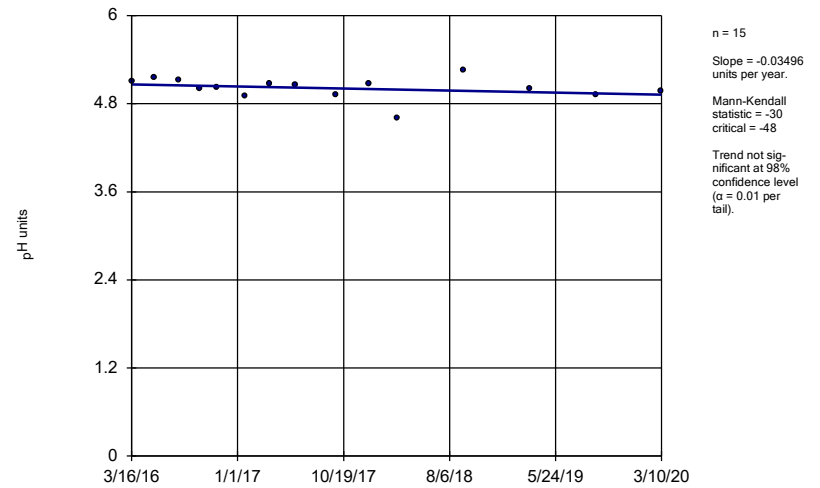
GWC-44



Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

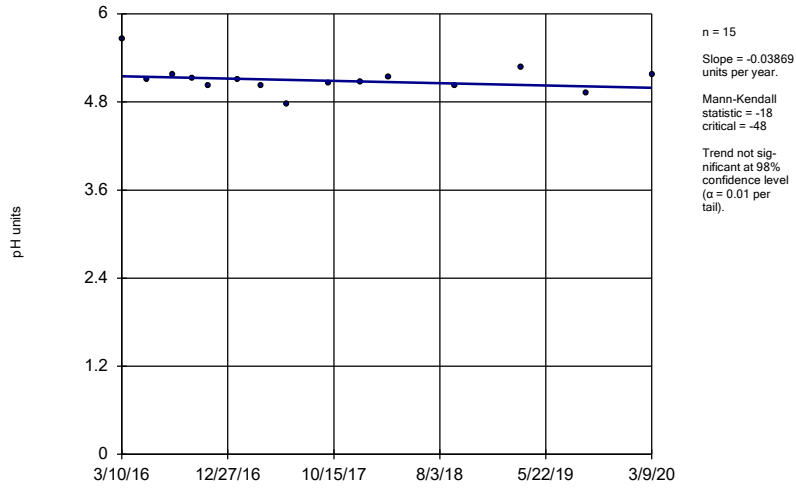
Sen's Slope Estimator

GWC-45



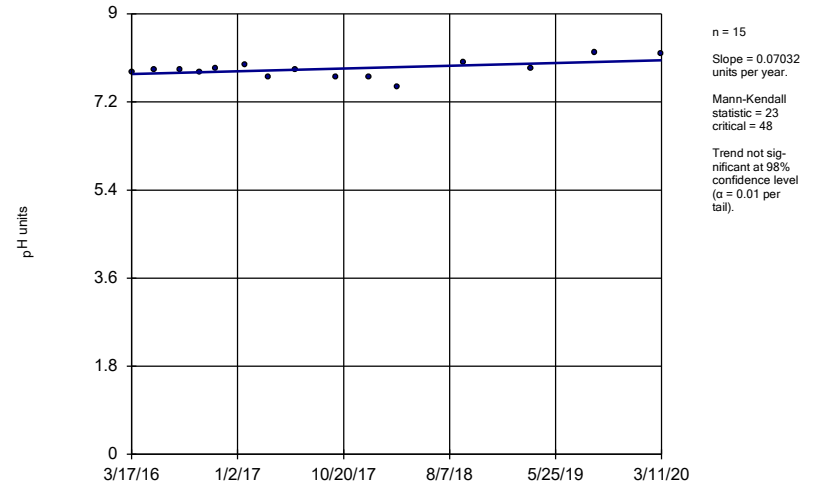
Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWC-48



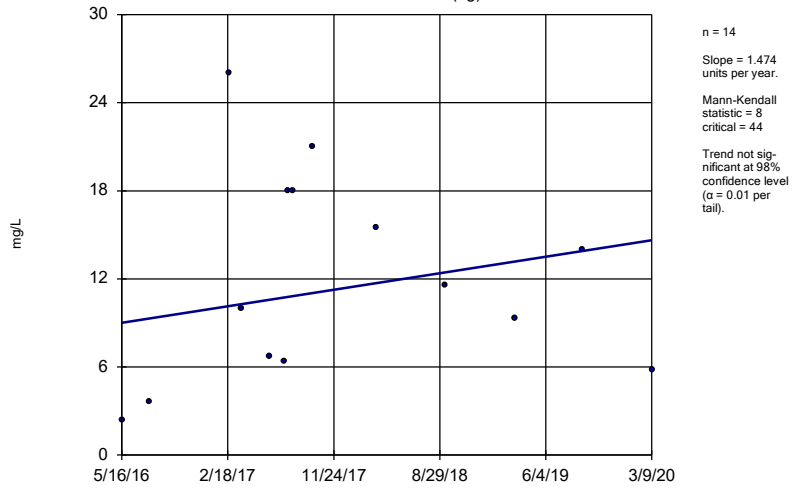
Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWC-49R



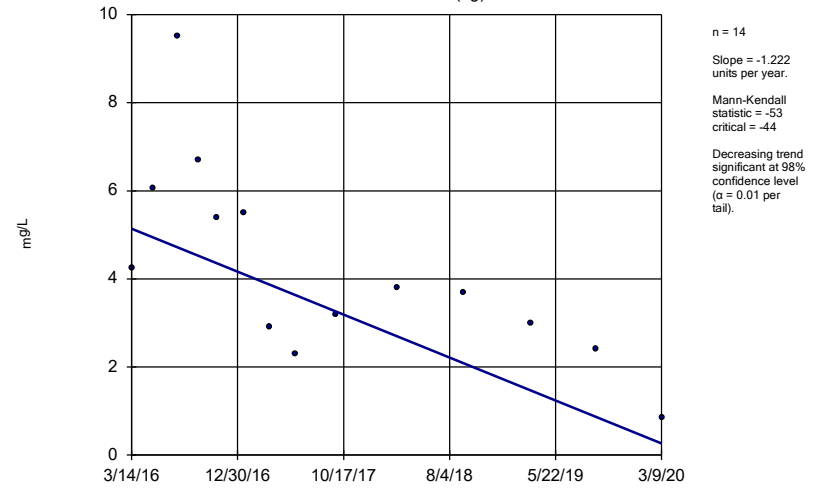
Constituent: pH Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWA-39RZ (bg)



Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

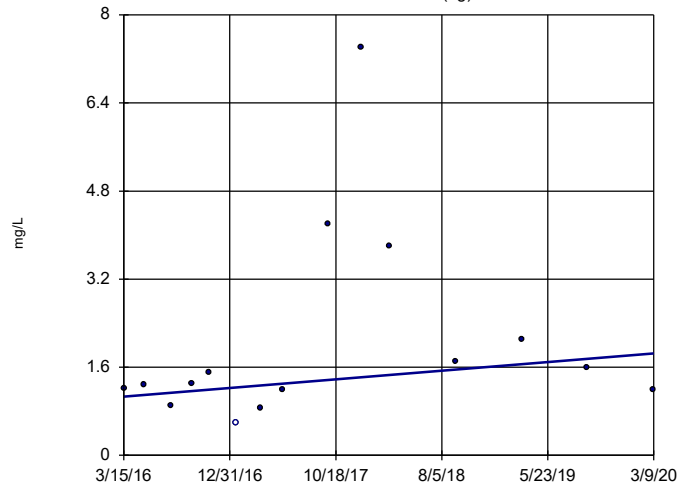
Sen's Slope Estimator GWA-39Z (bg)



Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-40 (bg)

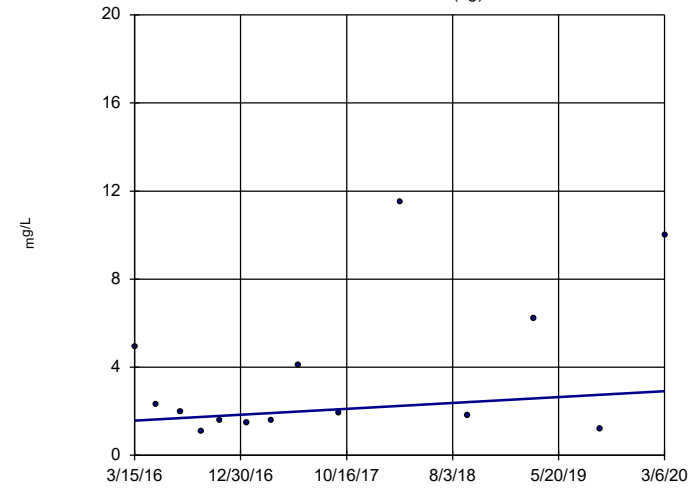


n = 15
 Slope = 0.1962
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 48
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)

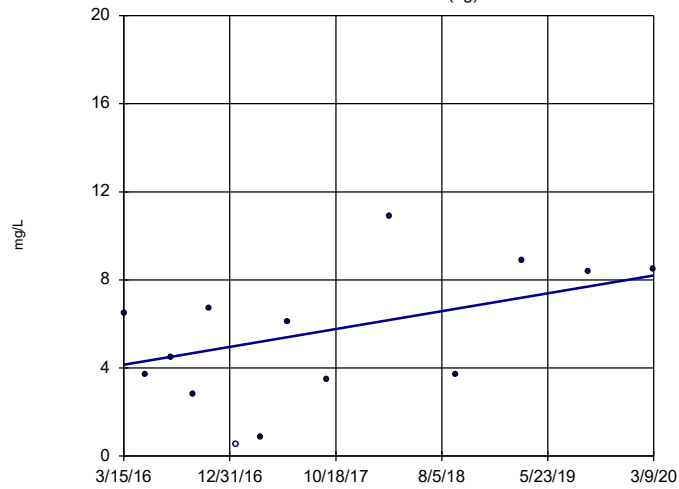


n = 14
 Slope = 0.3359
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

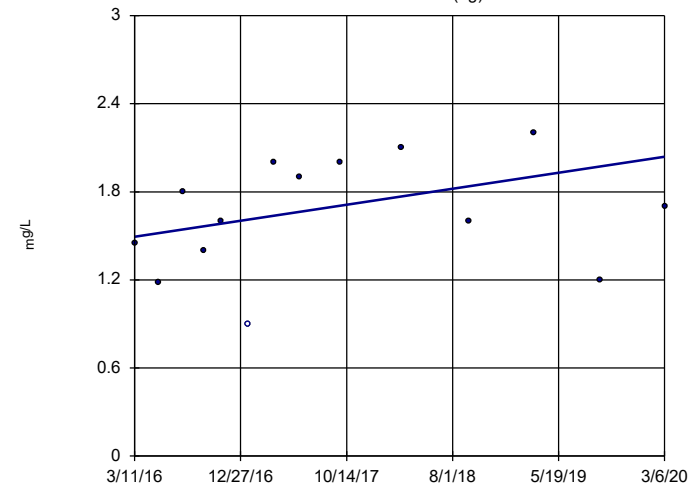


n = 14
 Slope = 1.016
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-42 (bg)

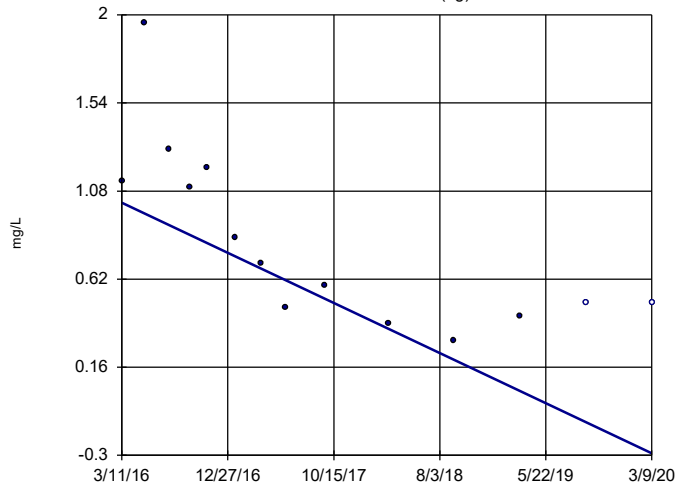


n = 14
 Slope = 0.1365
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

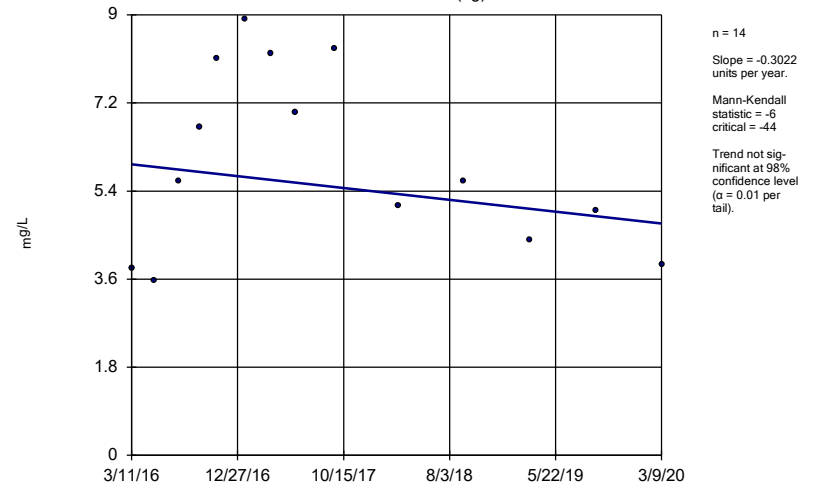
GWA-43 (bg)



Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

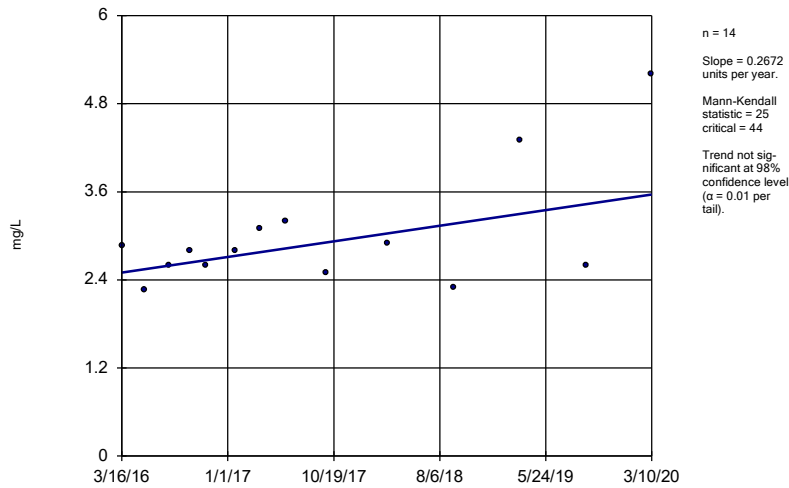
GWA-43R (bg)



Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

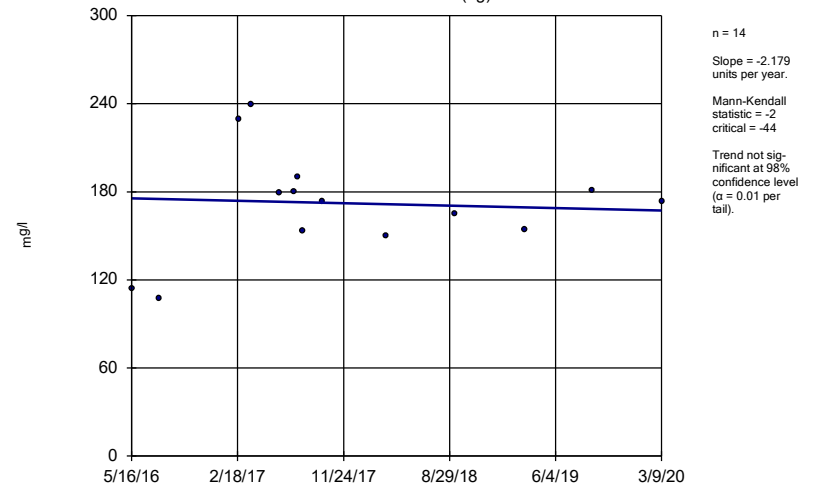
GWC-45R



Constituent: Sulfate Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

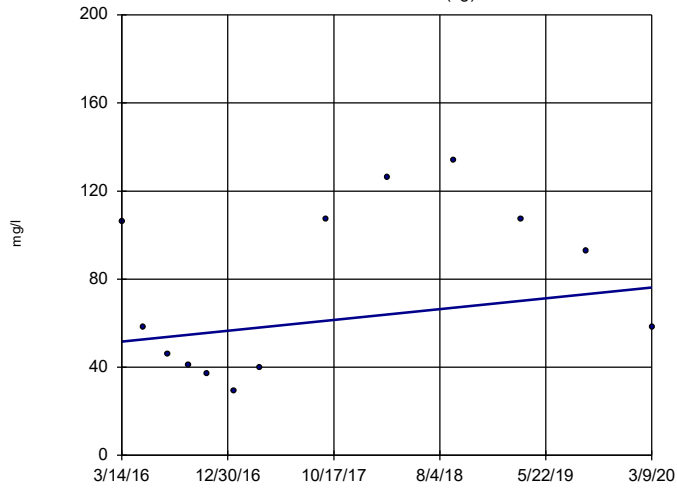
GWA-39RZ (bg)



Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39Z (bg)

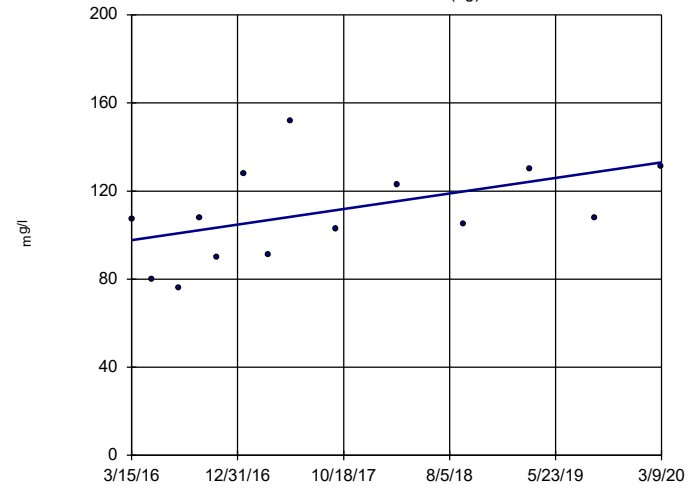


n = 13
 Slope = 6.184
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 39
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:33 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-40 (bg)

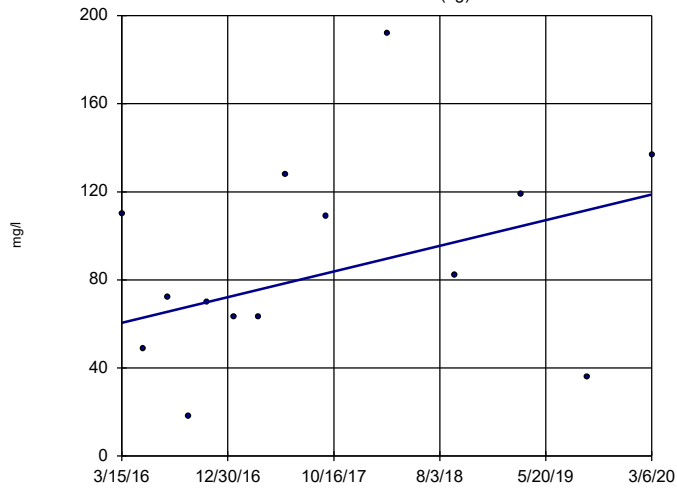


n = 14
 Slope = 8.873
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)

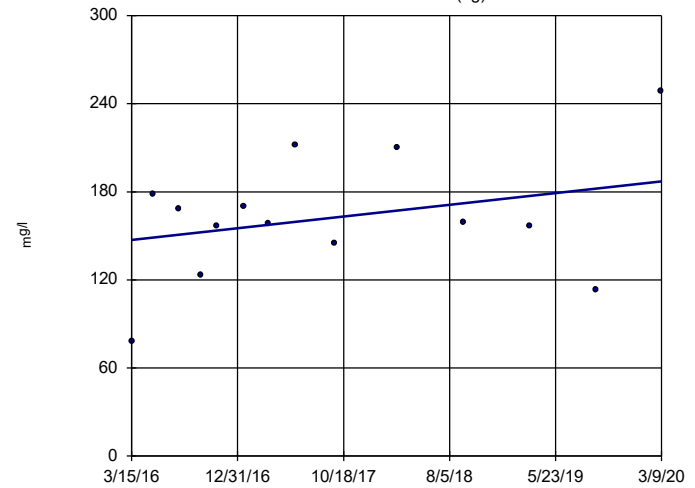


n = 14
 Slope = 14.67
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

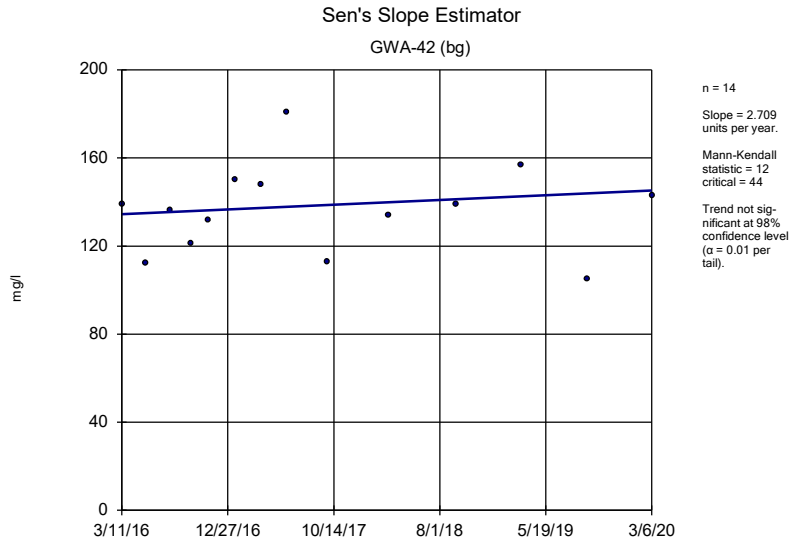
Sen's Slope Estimator

GWA-41R (bg)

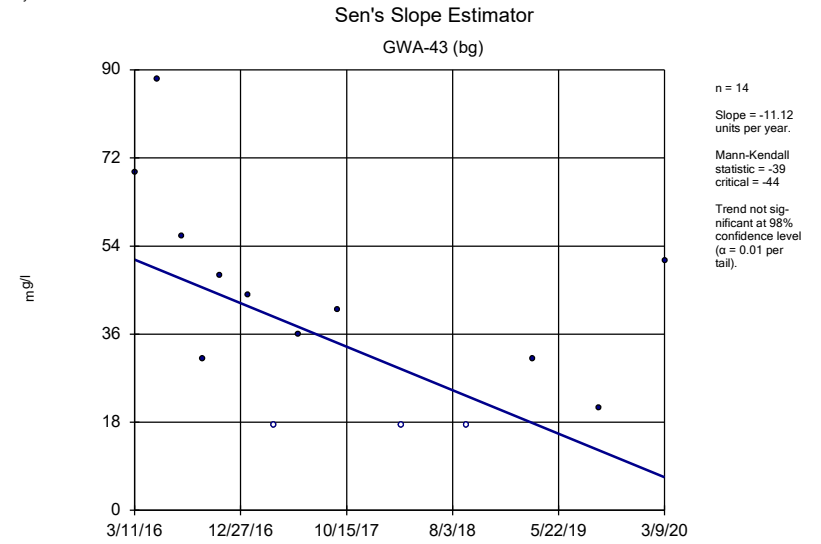


n = 14
 Slope = 10.03
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

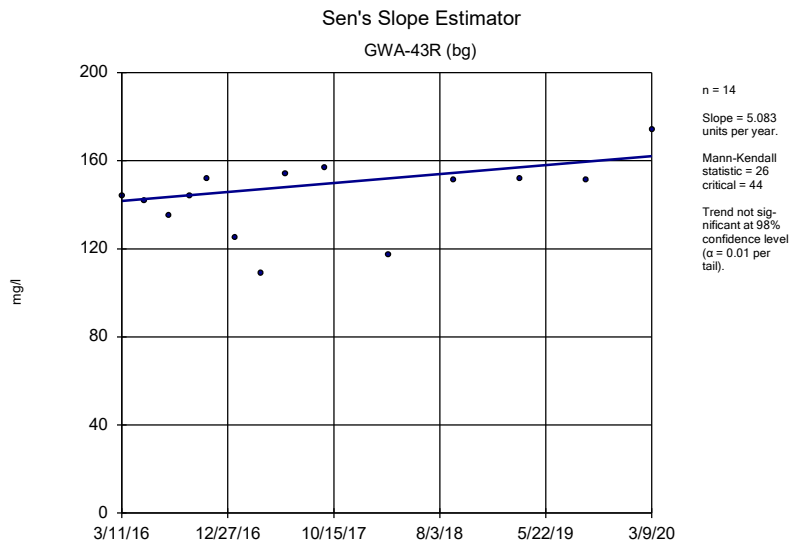
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



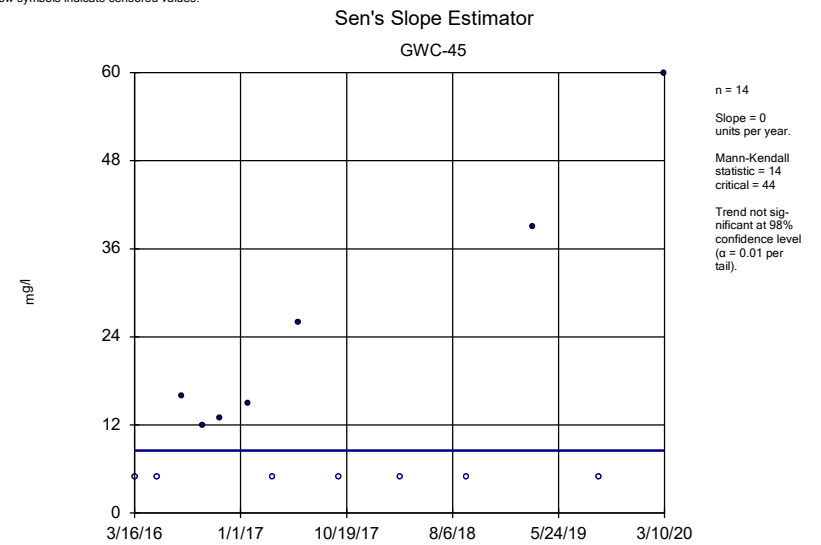
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



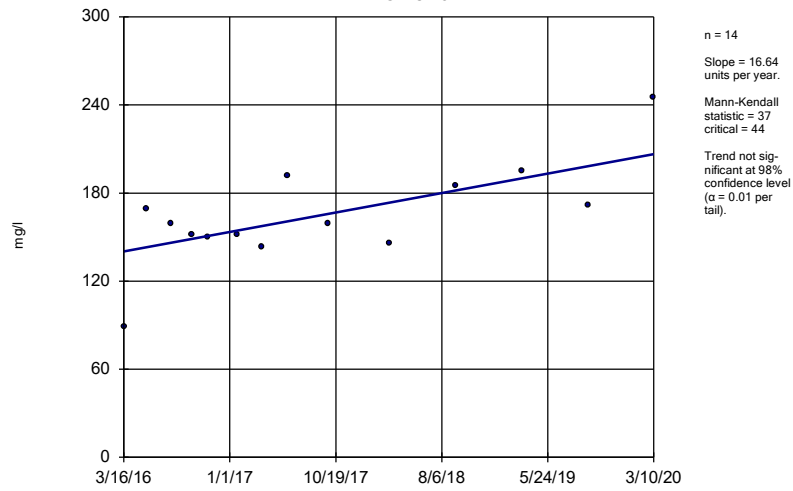
Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR



Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

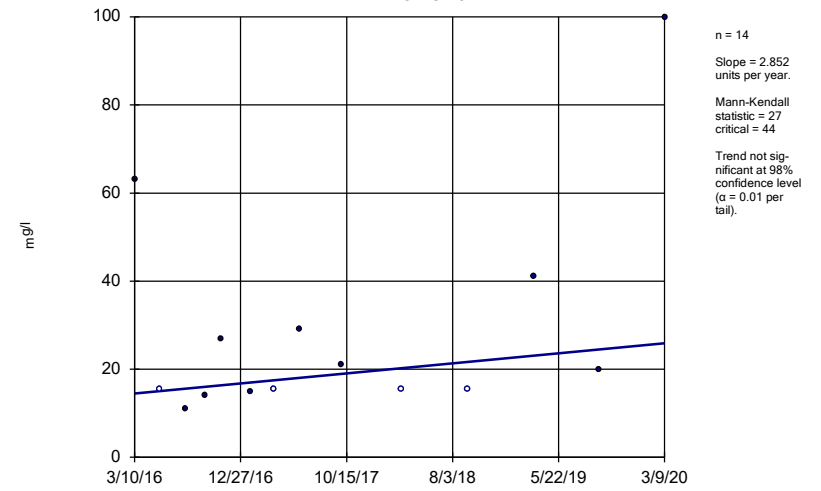
GWC-45R



Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWC-48



Constituent: Total Dissolved Solids Analysis Run 4/17/2020 10:34 AM View: Trend Tests - CCR
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

APPENDIX C
MEMORANDUM ON HYDROGEOLOGIC MONITORING
PROGRAM



Memo

To: Joju Abraham, P.G.
Southern Company Services, Inc.

From: Rhonda Quinn, P.G. Wood Environment & Infrastructure Solutions, Inc.

CC: Greg Wrenn, P.E. Wood Environment & Infrastructure Solutions, Inc.

Re: Solid Waste Disposal Facility Permit No. 008-018D (LI) - Hydrogeological Monitoring Program November 1, 2019 through May 1, 2020
8/28 /2020

Background

Wood Environment & Infrastructure Solutions, Inc. (Wood) was retained by Southern Company Services, Inc. (SCS), to assist with the hydrogeological (water level) monitoring program at Georgia Power Company's Plant Bowen (Site) monofill landfill cells 1 & 2, 3 & 4, 9 & 10. The work is being conducted to comply with Georgia Department of Natural Resources Environmental Protection Division (EPD) Solid Waste Permit No. 008-018D (LI) to assist with early detection of subsurface changes that might indicate land subsidence or sinkhole formation. Groundwater level fluctuations are monitored in accordance with Section 3.6.5 of the *Plant Bowen Proposed Coal Combustion By-Product Monofill Addendum I Site Acceptability Report – Hydrogeological Assessment and Demonstration of Engineering Measures* (SCS 2004).¹

The Site utilizes In-Situ[®] Instruments, Inc. Win-Situ[®] telemetry and reporting software and pressure transducers to collect and record groundwater elevations from monitoring wells located around the perimeter of the landfill cells. At Cells 1 & 2 of the solid waste landfill, transducers are deployed in six soil wells (GWA-1 (soil/rock), GWA-3, GWC-7Z, GWC-11, GWC-13, and GWC-15) and six rock wells (GWA-2R, GWC-6RZ, GWC-8RR, GWC-11R, GWC-13R, and GWC-15R). In 2015, the program was expanded to include Cells 3 & 4 where five soil wells (GWC-18, GWA-36, GWA-37, GWA-53, and GWA-55) and eight rock wells (GWC-16R, GWC-18R, GWC-21R, GWC-24R, GWC-25R, GWA-36R, GWA-53R, and GWA-55R) are equipped with transducers. In 2016, the program was expanded further to include Cells 9 & 10 where currently six soil wells (GWA-39Z, GWA-41, GWA-43, GWC-45, GWC-47, and GWC-49Z)

and six rock wells (GWA-39RZ, GWA-41R, GWA-43R, GWC-45R, GWC-47R, and GWC-49R) are equipped with transducers. Etowah River levels for the reporting period were obtained from a U.S. Geological Survey gauge (02394670) near Cartersville, Georgia. Rainfall data for this monitoring period was collected using on site rain gage at location GWA-37 monitoring station.

Water level data are electronically logged multiple times daily by each transducer. Most logged data are uploaded after each reading via satellite telemetry to a central In-Situ® database. Automated reports are accessible via the In-Situ® database website where the telemetry data are stored and compiled. Data from wells not connected to the site telemetry system are manually downloaded directly from the transducer because the transducers are set to log and store data internally multiple times throughout each day. Water level data are monitored for unusual groundwater level fluctuations.

Maintenance Observations

During the reporting period, the following well locations (GWC-7Z, GWC-11, GWC-11R, GWC-13, GWC-13R, GWC-16R, GWA-37, GWA-39Z, and GWA-39RZ) were visited on one or more occasions for maintenance, manual data downloads, battery change outs, transducer replacement, solar panel adjustment, or reconnection of modem or transducer cables. The data, during this reporting period, for these transducer locations are not continuous due to transducers being offline during repairs or no access to the Site during Covid 19 pandemic restrictions. During the past six-month period, a transducer at location GWC-11R was returned to In-Situ® for repair. Wood has continued to update the firmware to current versions at each location since November 2018 to improve communication.

Water Level Fluctuations

Continuous groundwater level data and river stage elevations were recorded between November 1, 2019 and May 1, 2020. Reporting period hydrographs for Cells 1 & 2, 3 & 4, and 9 & 10 are shown in Figures 1A through 3B.

Table 1 lists the groundwater sampling, water level gaging and transducer maintenance activities during the reporting period and are considered known disruptions. Figures 1A through 3B show the transducer water level data for the reporting period. Table 2 summarizes the data gaps or maintenance issues for the reporting period and recommendations for repairs and includes the most recent repairs completed up to May 1, 2020. Repairs consisted of resetting reference water elevation depth, resealing boxes, ant infestation control, and replacing power controller units and batteries. Over time the transducer elevation drifts, possibly attributed to the transducer being

periodically removed for sampling, gauging or maintenance activities. To remedy this, in periodic maintenance is needed to mark and mount the transducer cable to a fixed location such that the transducer is consistently returned to the same depth. When an adjustment is made, the reference depth to actual water elevation is re-set and the logging cycle re-started. The marking and securing of the transducers continued during this reporting period. Table 2 is a record of the maintenance completed during the reporting period.

The water levels in monitoring wells equipped with transducers exhibited similar overall trends during the reporting period. Groundwater elevations show an overall increasing trend during this six month period with two increasing trends of long-duration. One increasing trends (beginning in December 2019, another beginning end of February 2020) in the groundwater elevations which was in response to multiple rainfall events. These increases were then followed by a slow decreasing trend starting in March 2020, which mimic the Etowah River levels in response to rain events and wet conditions. Within Cells 9 & 10, monitoring wells GWA-41R and GWA-41 show the most noticeable reaction to rainfall and Etowah River hydrograph activity observed on ten rain events. Some of this hydrograph response may be attributable to the fluctuations in water levels in the nearby General Service Water Pond. Groundwater in both the overburden and bedrock aquifers responded to rainfall events; however, the time to peak groundwater elevations varied between wells. During this monitoring period, the potentiometric surface of the bedrock aquifer remained above the top of competent bedrock in the instrumented monitoring wells. This higher hydrostatic pressure of the bedrock aquifer limits removal of material from the overburden that could result in subsidence issues. The observed variations in groundwater elevations are attributed to rainfall variations, or due to sampling or maintenance activities at the monitoring points. A comparison of river stage and precipitation data with recorded groundwater elevations (Figures 1A through 3B) shows that both sets of data follow similar overall patterns.

Conclusions and Recommendations

Observed disruptions in the transducer water level were found to be directly attributed to drawdown during sampling events, water level gauging, maintenance of wells, transducers, or telemetry units, or significant rainfall events. The November 1, 2019 to May 1, 2020 hydrologic monitoring data did not show water level fluctuations attributed to subsurface changes that might be indicative of land subsidence or sinkhole formation. Based on data for the current reporting period (November 1, 2019 to May 1, 2020), Wood recommends the following actions:

- Periodically calibrate elevations to correct for transducer elevation drift.
- Perform the necessary maintenance or replacement of non-functioning transducer equipment in wells to restore function and continue with routine transducer/telemetry system maintenance to ensure that future data are consistent.
- Manually download data, monthly, when a telemetry unit is offline (i.e. not transmitting data to the remote database). This will ensure that data are being reviewed on a consistent and timely basis.
- Trim tree branches as necessary to allow more sunlight to reach the solar panels and charge batteries.
- Field check equipment to make certain insect infestation is not damaging equipment.

¹ SCS (Southern Company Services, Inc.), 2004. Plant Bowen Proposed Coal Combustion By-Product Monofill Addendum I Site Acceptability Report – Hydrogeological Assessment and Demonstration of Engineering Measures.

TABLES

Table 1
Known Sampling and Gauging Events Relative to Water Level Fluctuations
November 1, 2019 through May 1, 2020
Georgia Power - Plant Bowen
Wood Project No. 6122160287

Solid Waste Disposal Cells	Well ID	Date Well Gauged	Date Well Sampled	Sampling Comments	Most Recent Transducer Network Maintenance Per Well	Comments
1&2	GWA-1	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-2R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-3	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-6RZ	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-7Z	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Manuel Download of Data, Battery dead, replaced battery.
	GWC-8RR	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-11	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Manuel Download of Data; transducer out of well, reconnected transducer
				Groundwater CCR Event #14	1/28/2020	Manuel Download of Data; batteries and modem disconnected; replaced batteries and re-connected modem
	GWC-11R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Manuel Download of Data; transducer out of well, reconnected transducer
				Groundwater CCR Event #14	1/28/2020	Manuel Download of Data; batteries and modem disconnected; replaced batteries and re-connected modem
	GWC-13	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019, 1/28/2020	Manuel Download of Data; transducer cable corroded, transducer (SN 133482) and cable pulled and replaced with transducer (SN 407057); 1/28/2020 transducer replaced with transducer (SN 418317)
	GWC-13R	2/28/2020	no longer sampled		12/5/2019, 1/28/2020	Manuel Download of Data
	GWC-13RZ	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		GWC-13R is equipped with a transducer. GWC-13R is no longer sampled, but is measured for water levels. Nearby well GWC-13RZ is not equipped with a transducer, but gauging and sampling in this well influences adjacent well GWC-13R. GWC-13RZ was sampled on the dates shown.
	GWC-15 and GWC-15Z	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		GWC-15 is equipped with a transducer. GWC-15 is no longer sampled, but is measured for water levels. Nearby well GWC-15Z is not equipped with a transducer, but gauging and sampling in this well influences adjacent well GWC-15. GWC-15Z was sampled on the dates shown.
	GWC-15R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
3&4	GWC-16R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Transducer was thought to be out of water due to very consistent water levels. When checked was found to be in 10 feet of water and the water elevation was correct.
	GWC-18	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-18R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-21R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-24R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-25R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-36	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-36R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-37	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Cleaned out rain gage tipping buckets
	GWA-53	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-53R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-55	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
GWA-55R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14			
9 & 10	GWA-39RZ	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Manual download of data; replaced batteries, adjusted panel to get more sunlight
		2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	1/28/2020	Replaced batteries, tree canopy impacting amount of sunlight reaching panel
	GWA-39Z	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	12/5/2019	Manual download of data; replaced batteries, adjusted panel to get more sunlight
		2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14	1/28/2020	Replaced batteries, tree canopy impacting amount of sunlight reaching panel
	GWA-41	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-41R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-43	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWA-43R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-45	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-45R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-47	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-47R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
	GWC-49R	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14		
GWC-49Z	2/28/2020	3/2/2020 to 3/17/2020	Groundwater CCR Event #14			

Table 2
Maintenance Information and Recommendations
November 1, 2019 to May 1, 2020
Georgia Power - Plant Bowen
Project Number: 6122-16-0287

Cell	Monitoring Well	Date	Maintenance Information	Recommendations
Cells 1&2	GWA-1		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWA-2R		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWA-3		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-6RZ		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-7Z	12/5/2019	Batteries replaced	Field check next visit
Cells 1&2	GWC-7Z	5/11/2020	Not connecting to telemetry	Manual download of data needed. Field check needed.
Cells 1&2	GWC-8RR		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-11	12/5/2019, 1/28/2020	Not connecting to telemetry: reconnected transducer, replaced batteries and re-connected modem.	Field check next visit
Cells 1&2	GWC-11R	12/5/2019, 1/28/2020	Not connecting to telemetry: reconnected transducer, replaced batteries and re-connected modem	Field check next visit
Cells 1&2	GWC-13	12/5/2019, 1/28/2020	Not connecting to telemetry: replaced transducer	Field check next visit
Cells 1&2	GWC-13R	12/5/2019, 1/28/2020	Not connecting to telemetry.	Manual download of data needed. Field check needed.
Cells 1&2	GWC-15		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-15R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-16R		No functional issues during this reporting period, but water level fluctuations not evident in well - uncertain if due to hydrogeologic condition or equipment.	Manual download of data needed. Field check needed.
Cells 3&4	GWC-18		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-18R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-21R	3/31/2020	Not connecting to telemetry.	Manual download of data needed. Field check needed.
Cells 3&4	GWC-24R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-25R		No functional issues during this reporting period.	Clean solar panels periodically
Cells 3&4	GWA-36		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-36R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-37	12/5/2019, 1/28/2020	cleaned out tipping buckets for rain gage	Check periodically
Cells 3&4	GWA-53		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-53R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-55		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-55R		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-39RZ	12/5/2019	Replaced batteries, tree canopy impacting sunlight, adjusted panel to get more sunlight	Field check next visit and check periodically
Cells 9&10	GWA-39RZ	1/28/2020	Replaced batteries, tree canopy impacting sunlight, adjusted panel to get more sunlight	Field check next visit and check periodically
Cells 9&10	GWA-39Z	12/5/2019	Replaced batteries, tree canopy impacting sunlight, adjusted panel to get more sunlight	Field check next visit and check periodically
Cells 9&10	GWA-39Z	1/28/2020	Replaced batteries, tree canopy impacting sunlight, adjusted panel to get more sunlight	Field check next visit and check periodically
Cells 9&10	GWA-41		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-41R		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-42			Not needed in monitoring network.
Cells 9&10	GWA-43		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-43R		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-45		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-45R		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-47		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-47R		No functional issues during this reporting period.	No action needed.

Table 2
 Maintenance Information and Recommendations
 November 1, 2019 to May 1, 2020
 Georgia Power - Plant Bowen
 Project Number: 6122-16-0287

Cell	Monitoring Well	Date	Maintenance Information	Recommendations
Cells 9&10	GWC-49R	5/1/2020	Not connecting to telemetry	Manual download of data needed. Field check needed.
Cells 9&10	GWC-49Z	5/1/2020	Not connecting to telemetry	Manual download of data needed. Field check needed.
	River		Not updating on website since August 12, 2015. The status of this transducer is unknown.	Check with GPC/SCS on the status of this transducer. A USGS river gauge is currently being used as the source of the river water level.

Notes:
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FIGURES

Figure 1A - Cell 1&2 Transducer Level Monitoring

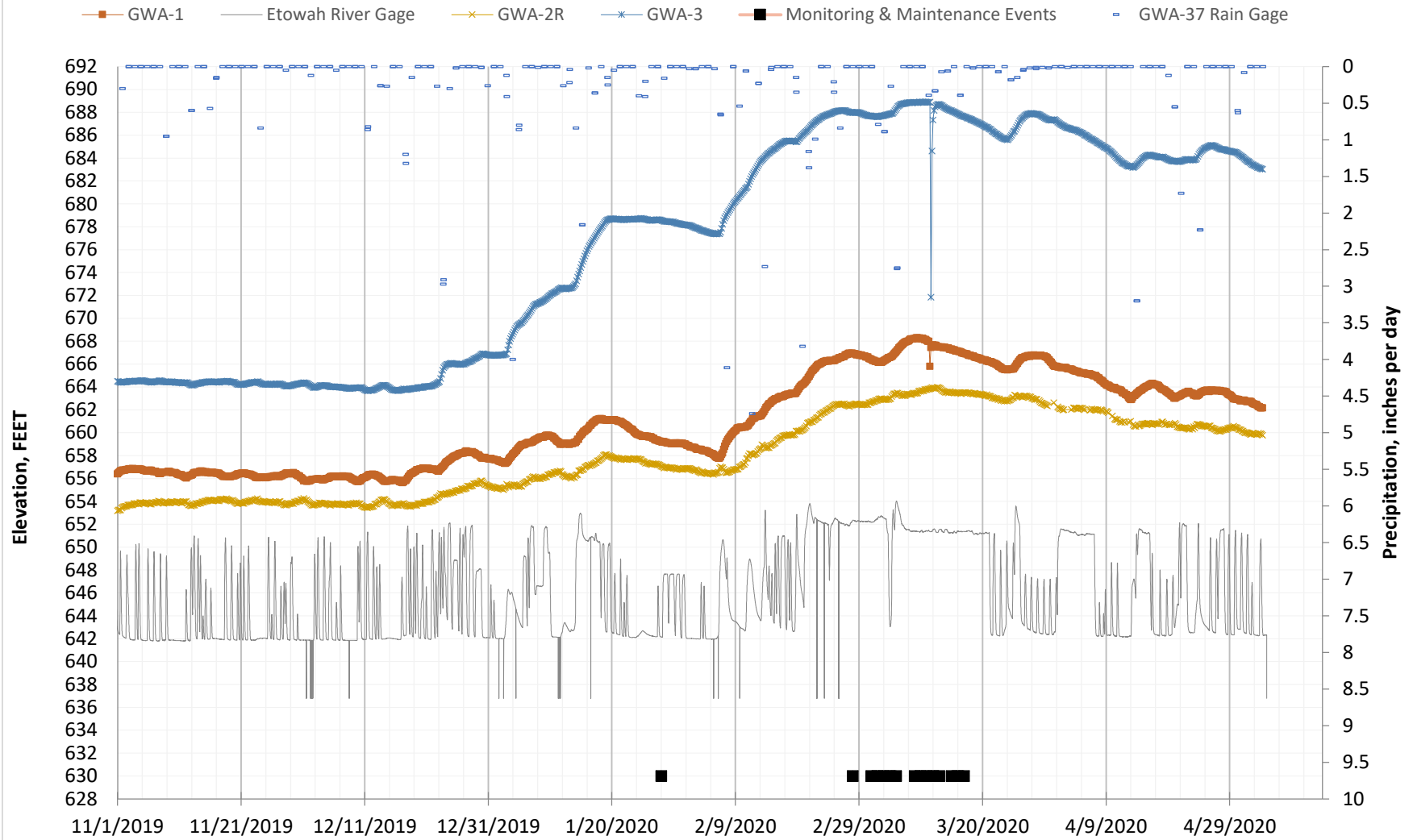


Figure 1B - Cell 1&2 Transducer Level Monitoring

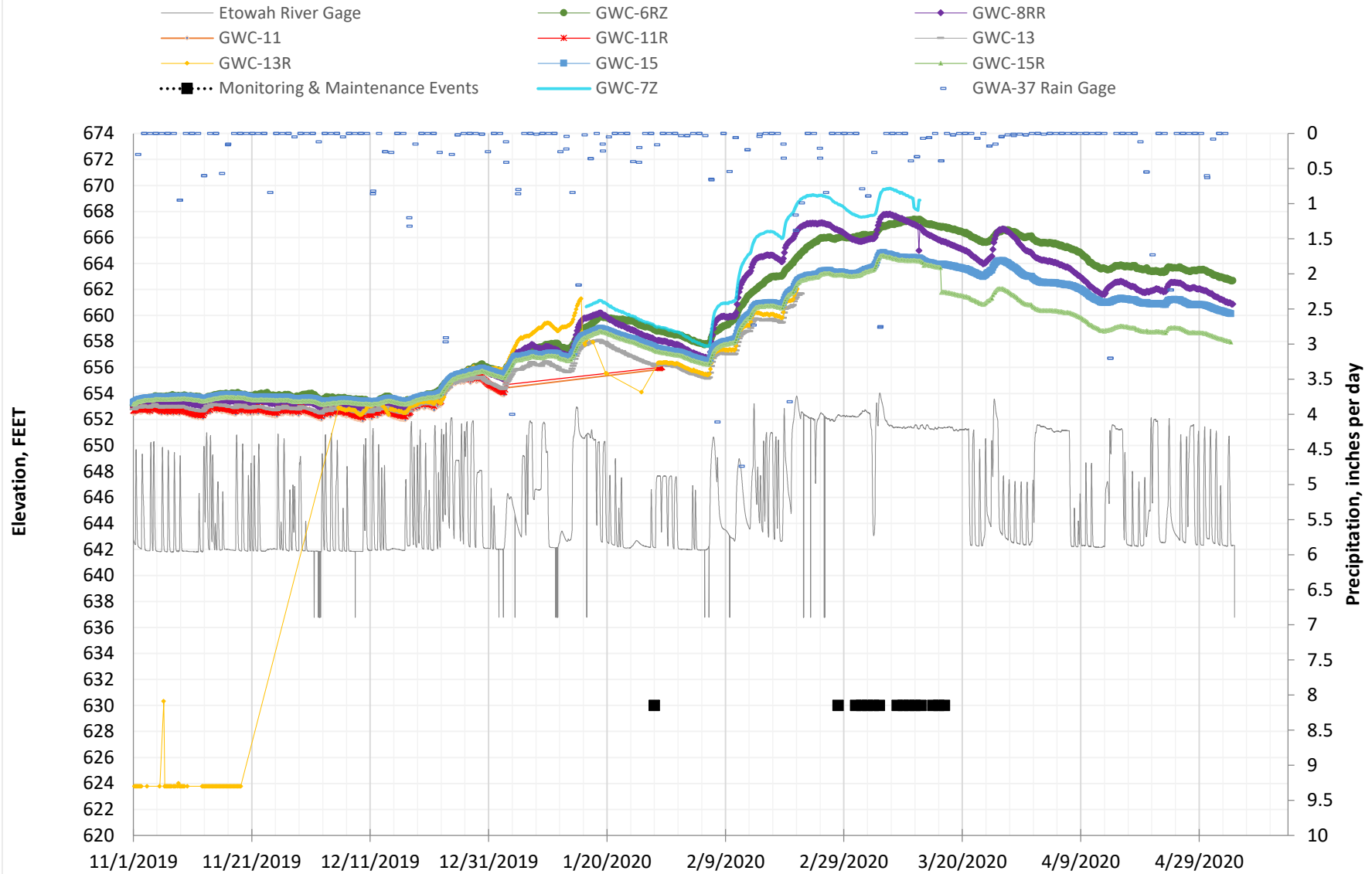


Figure 2A Cell 3 & 4 Transducer Level Monitoring

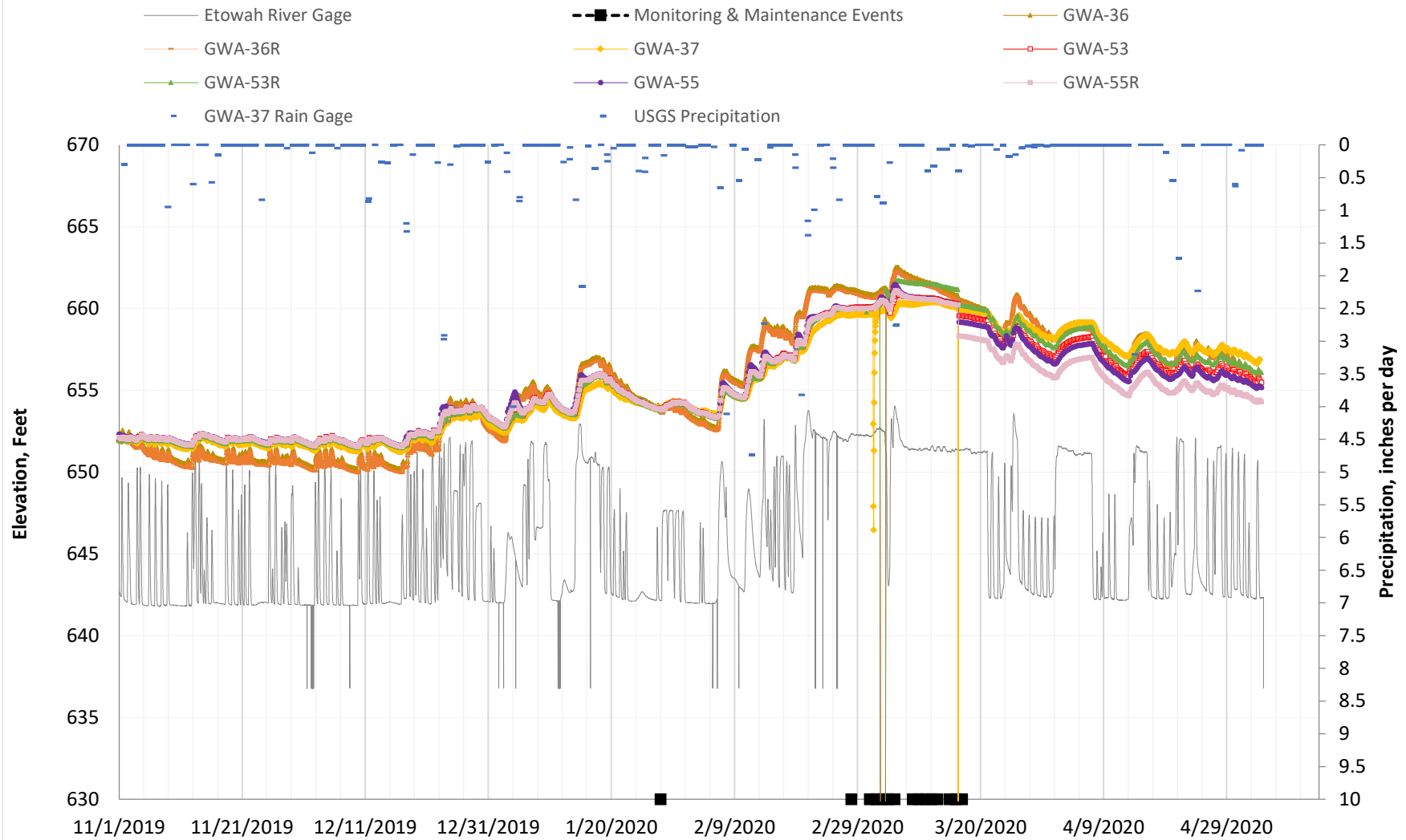


Figure 2B Cell 3 & 4 Transducer Level Monitoring

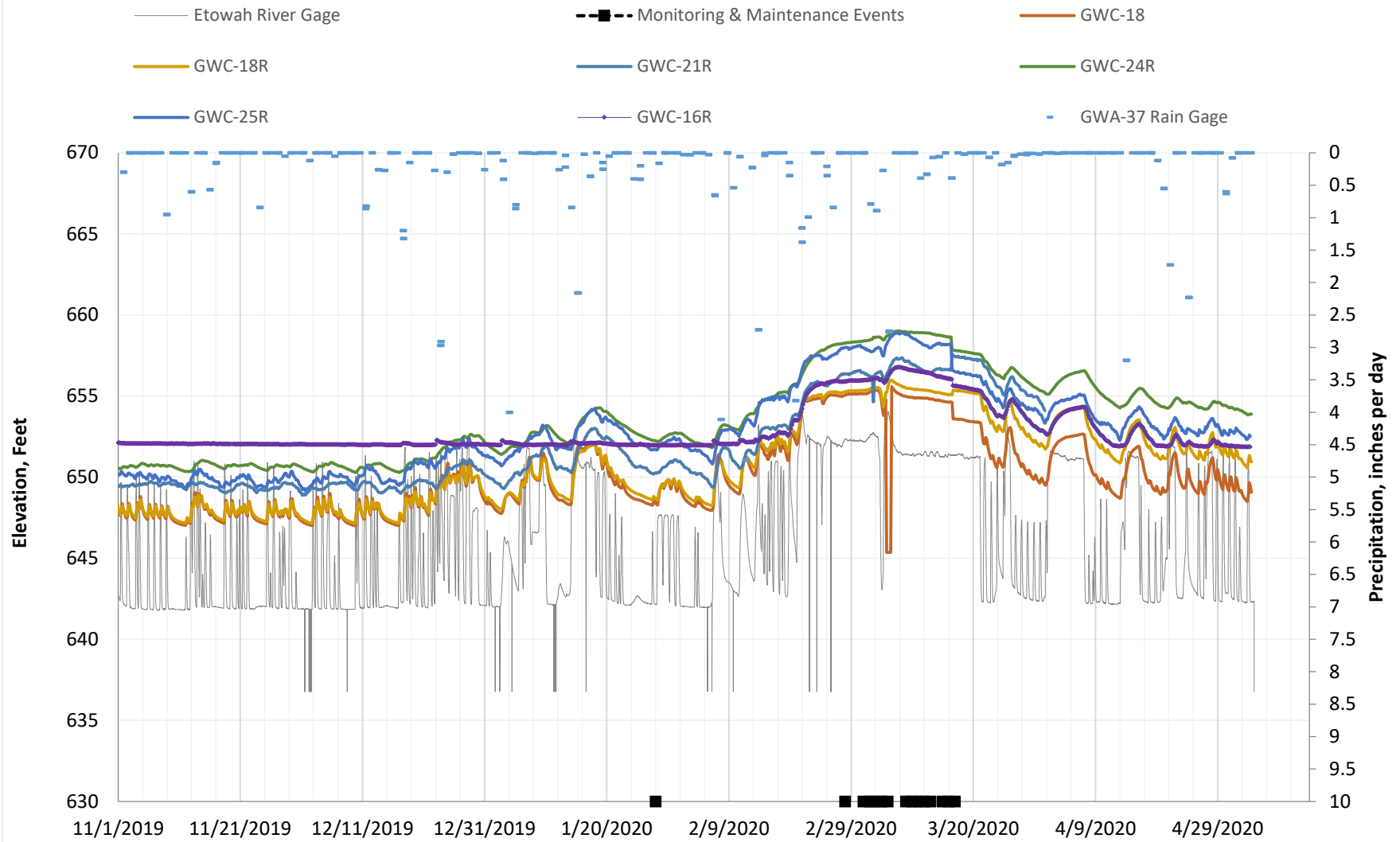


Figure 3A Cell 9 & 10 Transducer Level Monitoring

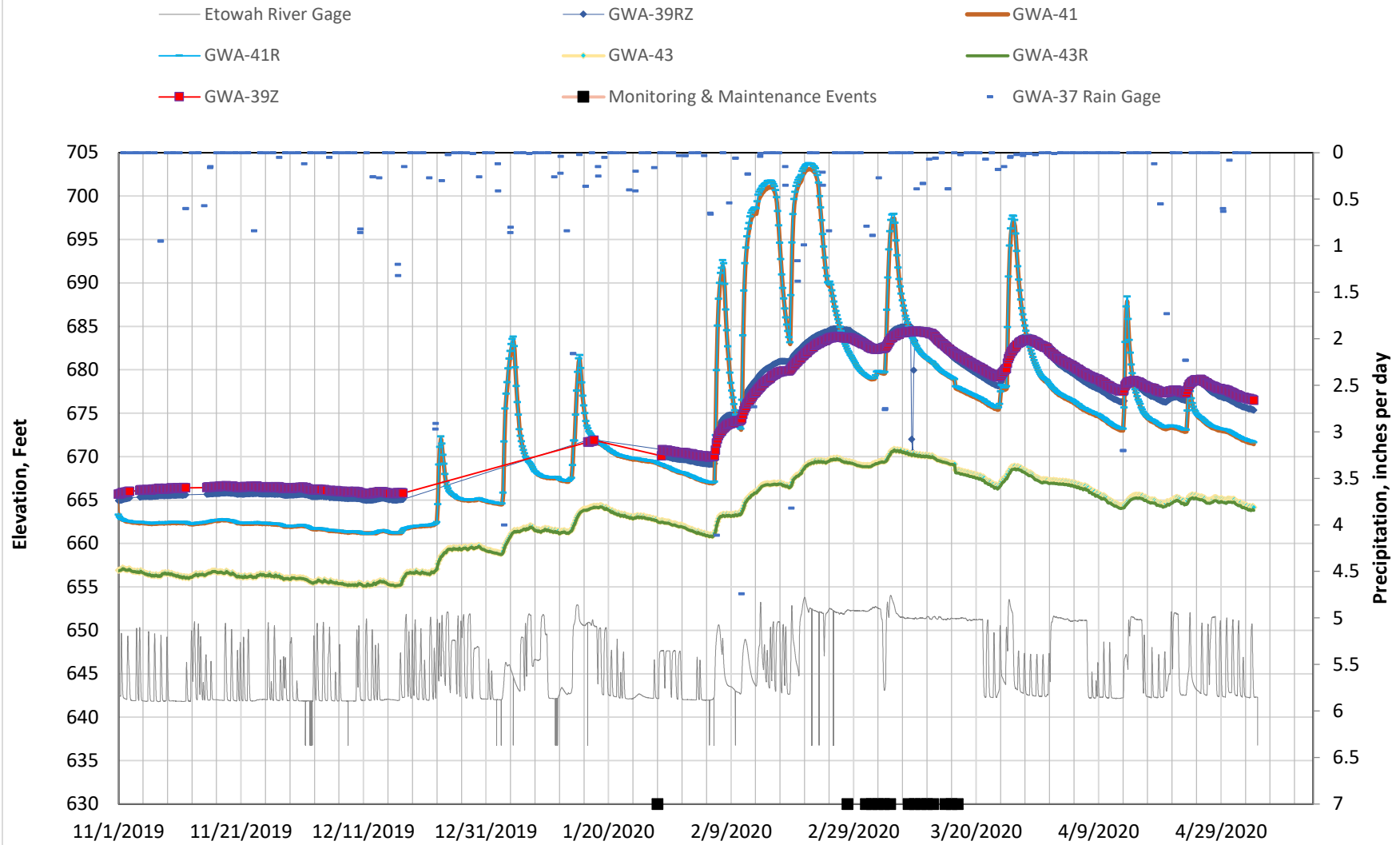
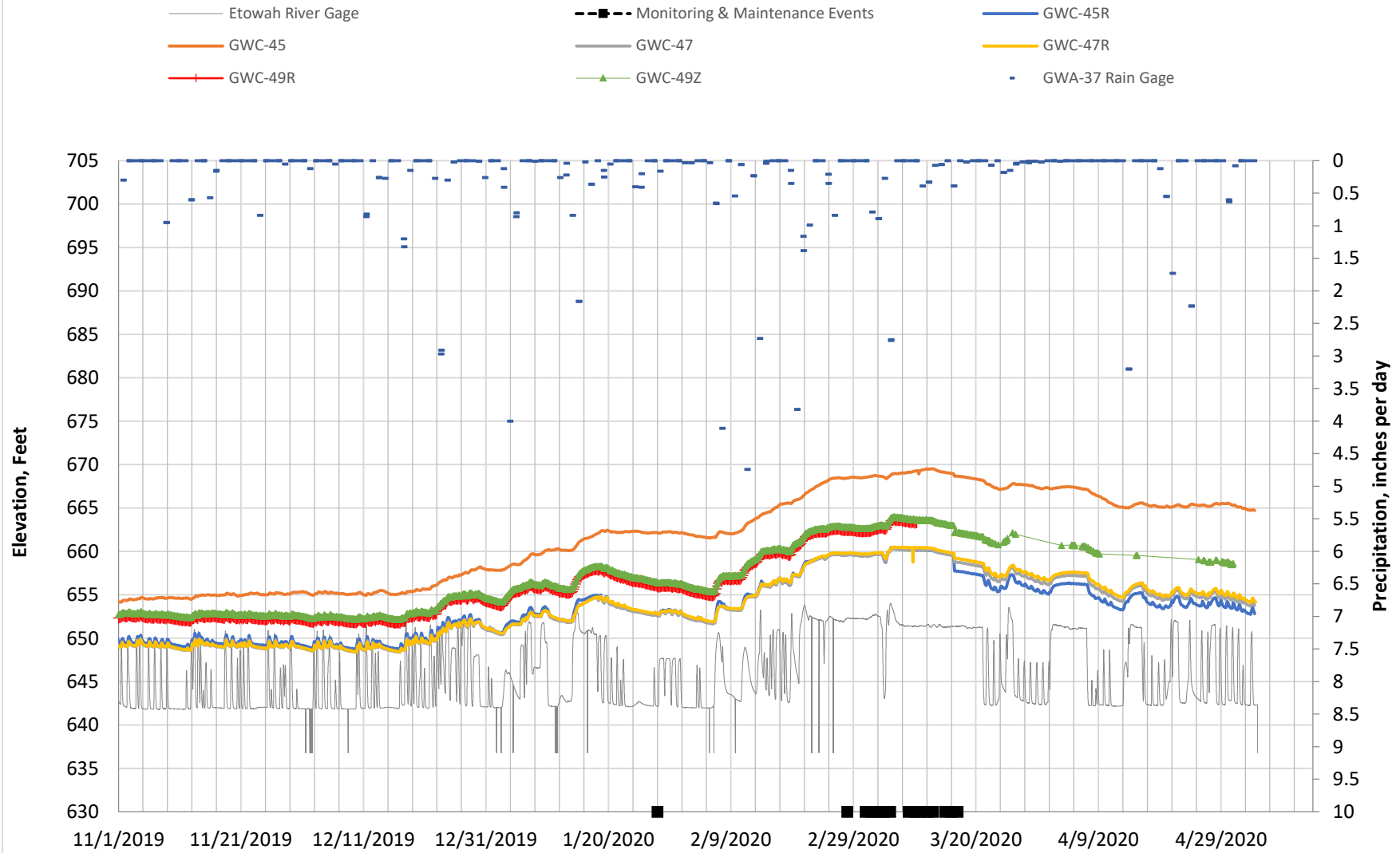


Figure 3B Cell 9 & 10 Transducer Level Monitoring



APPENDIX D
ALTERNATE SOURCE DEMONSTRATION
FOR MARCH 2020 SEMI-ANNUAL EVENT

Alternate Source Demonstration for March 2020 Semi-Annual Event

Plant Bowen

Landfill Cells 1 & 2, 3 & 4, and 9 & 10

Solid Waste Disposal Facility

Permit No. 008-018D (LI)

Prepared for:



Date: August 31, 2020

Prepared by: Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

Project No.: 6122-16-0287

CERTIFICATION STATEMENT

This *Alternate Source Demonstration for March 2020 Semi-Annual Event for Georgia Power Company - Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10* has been prepared in compliance with applicable Georgia Solid Waste Management Rule 391-3-4.14.23c by a qualified groundwater scientist or engineer with Wood Environment & Infrastructure Solutions, Inc. References to the appropriate Georgia Solid Waste Management 391-3-4 Rules are incorporated throughout this document.



Gregory J. Whren, P.E.
Registered Professional Engineer
Professional Engineer No. 025565



August 31, 2020

Date

PROFESSIONAL GROUND WATER SCIENTIST CERTIFICATION

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.



Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

August 31, 2020

Date



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1.0 INTRODUCTION

This Alternate Source Demonstration for March 2020 Semi-Annual Event (ASD) has been prepared in accordance with 391-3-4.14.23(c) of the Georgia Solid Waste Management Rules to support the position that statistically significant increases (SSIs) in constituent concentrations over background as presented in *the 2020 Semi-Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10, dated August 31, 2020 are a result of the natural variability in groundwater quality and not a release from the landfill cells. This ASD addresses those March 2020 SSIs in wells that have not previously been addressed in past ASDs (August 2017 and April 2018), although it should be noted that the SSIs addressed herein are for the same constituents as those covered in previous ASDs.

This document satisfies the requirements of 391-3-4.14.23(c) which allows an owner or operator to demonstrate that a source other than the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 has caused an SSI and that the apparent SSI was the result of an alternate source or resulted from errors in “sampling, analysis, statistical evaluation, or natural variation in groundwater quality”.

1.1 Background

The Georgia Power Company (GPC) Plant Bowen solid waste disposal facility (Site) is located in south Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome. The disposal facility is approximately 300 acres located on a previously undeveloped, contiguous portion of the plant property. The disposal facility (**Figure 1: Monitoring Well Network March 2020**) receives coal combustion by-products, coal ash and gypsum, from coal-burning and flue gas desulfurization processes at the Site.

The Plant Bowen solid waste disposal facility is operated in accordance with Georgia Environmental Protection Division (EPD) Solid Waste Permit No. 008-018D (LI). Groundwater monitoring is conducted as per the permit requirements specified in the Design and Operation (D&O) Plan. This includes semi-annual groundwater sampling and continuous groundwater level measurements at the Site. In addition, background sampling for the U.S. Environmental Protection Agency’s (USEPA) Coal Combustion Residuals (CCR) Rule was conducted from February 2016 through June 2017.

In March 2020, the first semi-annual groundwater monitoring event for 2020 was conducted in accordance with the D&O Plan. Antimony, barium, zinc, pH, calcium, chloride, sulfate, and total dissolved solids (TDS) were detected in some downgradient wells at concentrations outside of their statistical prediction limits. This report demonstrates that these SSIs do not indicate a release from the lined Landfill Cells 1 & 2, 3 & 4, and 9 & 10, but rather the SSIs reflect natural variation in groundwater quality.

2.0 SUMMARY OF STATISTICAL EXCEEDANCES

As presented in the *2020 Semi-Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10* (August 2020), there were two metals and five CCR Appendix III parameters, as listed below, exhibiting SSIs outside their statistical prediction limits. The 2020 semi-annual report lists other SSIs that are not listed below because those SSIs have been addressed in the August 2017 Alternate Source Demonstration (antimony and nickel for wells GWC-16R and GWC-21R) and April 2018 Alternate Source Demonstration (barium, zinc, pH, calcium, chloride, sulfate, and TDS for various wells). These SSIs listed below have not been addressed in a past ASD.

Constituent	Wells with Constituent Concentrations Above Statistical Prediction Limits Not Previously Addressed in an ASD
Barium	GWC-49R
Zinc	GWC-47R
pH	GWC-9, GWC-49R
Calcium	GWC-5, GWC-6, GWC-45R
Chloride	GWC-10R, GWC-14Z, GWC-45R
Sulfate	GWC-14Z, GWC-21R, GWC-45R
Total Dissolved Solids	GWC-45, GWC-45R, GWC-48

Additional details regarding these statistical exceedances are summarized on **Table 1: Summary of March 2020 Statistical Exceedances Not Previously Addressed in an ASD**. The exceedances shown in **Table 1** were not re-sampled because these exceedances were for the same constituents (barium, zinc, calcium, chloride, pH, sulfate, and TDS) that have been addressed in previous ASDs.

3.0 ALTERNATE SOURCE DEMONSTRATION

Georgia Solid Waste Management Rule 391-3-4.14.23(c) allows the owner to demonstrate that a source other than the Landfill Cells 1 & 2, 3 & 4, and 9 & 10 caused the SSI or that the apparent statistical exceedance resulted from error in sampling, analysis, statistical evaluation, or from natural variation in groundwater quality. Pursuant to 391-3-4.14.23(c), the following is provided as a demonstration that the listed SSIs are due to natural variation in groundwater chemistry and not a release from the Landfill Cells 1 & 2, 3 & 4, and 9 & 10.

3.1 General Evaluation of the Statistical Exceedances

Barium and zinc exceeded their statistical prediction limits in one well each. Five of the seven Appendix III parameters (calcium, chloride, pH, sulfate, and TDS) were sporadically detected in a few wells at concentrations above their statistical prediction limits. Boron and fluoride concentrations did not exceed statistical prediction limits. **Tables 2, 3, and 4: Evaluation of Statistical Exceedances for Landfill Cells 1 & 2, 3 & 4, and 9 & 10 – March 2020** show which wells and parameters exhibit a statistical exceedance on a grid format. The purpose of the tables is to present a comprehensive snapshot of the downgradient data for each subject landfill cell. The table for each landfill cell shows a red square where there is a statistical exceedance; and as indicated on **Tables 2, 3, and 4** the red squares are scattered across each of the landfill cells. The tables highlight the following line of information that demonstrates that the SSIs are the result of natural variability in groundwater quality and not a release from the Landfill Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10.

Landfill Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10 were constructed with liner systems to prevent waste materials from leaching into underlying groundwater, in accordance with Solid Waste Permit No. 008-018D (LI). Cells 3 & 4 have a leachate collection system in addition to the liner system. If a release were present, the data would be expected to exhibit multiple exceedances for multiple wells within each landfill cell. Only GWC-45R showed exceedances of more than two Appendix III parameters. Review of the SSIs presented on the tables does not show a grouping of exceedances, as would be expected from a release, they show a scattered distribution. Additionally, those downgradient wells that show statistical exceedances of calcium, chloride, sulfate, and TDS do not have statistical exceedances of metals or the CCR indicator parameter, boron.

In March 2018, as part of the 2018 first semi-annual sampling event, additional parameters, namely, magnesium, sodium, potassium, and alkalinity were analyzed from the landfill cells upgradient wells and from the downgradient wells with statistical exceedances. The geochemical data was used to evaluate if the upgradient (background) and downgradient groundwater had consistent chemical characteristics and if the upgradient wells were geochemically representative of downgradient wells. The data is summarized on **Table 5: Summary of Geochemical Data** and highlights the following.

- The table is color-coded to show the similarities and differences between the geochemical concentrations and wells. The concentrations are ranked from highest to lowest along a column for a single parameter. Higher concentrations are indicated by a darker color while lower concentrations are indicated by lighter color with shadings to indicate the next highest or next lowest concentration.
- The majority of wells indicate a calcium-bicarbonate type groundwater across the three landfill cells; a few wells show sodium-bicarbonate or magnesium-bicarbonate type water; two wells show calcium-sulfate type groundwater and one well exhibits sodium-chloride type groundwater.
- There are differences in groundwater composition between upgradient and downgradient groundwater, particularly at Cells 3 & 4 and Cells 9 & 10, due to variable lithology and groundwater flow. The current statistical methods do not take these geochemical differences into account and may not explain the natural variability for applicable parameters. As additional data are collected semi-annually, the statistical approach currently used may periodically be re-evaluated and adjusted, as necessary.

3.2 Barium at Well GWC-49R

The SSI of barium at GWC-49R is likely the result of natural variation in groundwater quality and not the result of a release from the Landfill Cells 9 & 10. The following information supports this position.

Similar Barium Trend in Upgradient Wells

- GWC-49R barium concentration (0.026 mg/L) is within the range of barium concentrations in overburden and bedrock wells GWC-45/GWC-45R (0.0055 to 0.11 mg/L) detected prior to waste placement in Cells 9 & 10 in November 2015, as shown in **Table 6: Comparisons of Barium, Zinc, and pH**.
- The barium concentration in well GWC-49R is within the range of upgradient well concentrations in March 2020 and historical concentrations in sitewide upgradient wells (**Table 6**). The data is graphically shown in **Figure 2A Barium in Well GWC-49R Compared with Upgradient Wells**.
- Upgradient wells GWA-40 and GWA-41 showed an increase in barium concentrations from September 2019 to March 2020 similar to the increase in well GWC-49R causing an intrawell exceedance and indicated on **Figure 2A**.

Absence of Other Metals in Well GWC-49R Having A Similar Trend as Barium

- The target metals (per Site D&O Plan) in well GWC-49R occur in low concentrations with only barium showing consistently detectable concentrations, but at levels significantly below the Maximum Contaminant Level (MCL) of 2 mg/L. Well GWC-49R has been

analyzed 14 times for barium and 14 times for antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, and thallium. Of these metals, only barium had positive detections above the laboratory reporting limit (RL). Other metals were below the RL or present in low concentrations. Only two other metals (antimony and chromium) had more than two detections out of the 14 analyses and are graphed on **Figure 2B: Detected Metal Trends in Well GWC-49R**. A groundwater impact from material placed in Landfill Cells 9 & 10 would show similar detection patterns of other metals. A comparison of the patterns of concentration trends of the detected antimony and chromium with barium in well GWC-49R do not show a correlation between barium and the two detected metals, and there are no increasing trends for antimony and chromium. Statistical analysis of the GWC-49R barium concentrations indicates the trend is not significant.

Barium Is Present in Naturally Occurring Minerals Beneath the Site

- Barium occurs naturally in minerals beneath the Site. Barium occurs naturally in the local geologic formations. The Cartersville mining district in Bartow County contains residual deposits of arsenic-bearing minerals, barite, manganese, and iron oxide minerals along with metal sulfides (Kesler, 1950). Arsenic, barium, copper, lead, nickel, and zinc are found in varying amounts throughout the residual clays of the region due to the weathering of sulfides (Kesler, 1950). The overlying residual clays of the regional carbonate rocks contain deposits of coarsely crystalline barite (Kesler, 1950). Limestones and dolomites can have barium concentrations of 50 to 200 parts per million (Kabata-Pendias, 2001), which could result in naturally occurring concentrations in groundwater at levels similar to those observed at the Site.

3.3 Zinc at Well GWC-47R

The SSI of zinc in well GWC-47R in Landfill Cells 9 & 10 is likely the result of natural variation in groundwater quality and not the result of a release from the Landfill Cells 9 & 10. The following information supports this position.

Similar Zinc Trend in Upgradient Wells

- Zinc concentrations in bedrock well GWC-47R are similar to zinc concentrations before placement of waste in Landfill Cells 9 & 10. The initial waste placement began in November 2015 for Landfill Cells 9 & 10. Current zinc concentration (0.032 mg/L) in well GWC-47R is within the range of zinc concentrations (0.0027 to 0.051 mg/L) detected in bedrock well GWC-45R prior to waste placement, as shown in **Table 6**.
- Zinc concentrations in well GWC-47R are within the range of background concentrations at other landfill cells and are similar to zinc in other Landfill Cells 9 & 10 wells.
- Zinc concentrations in well GWC-47R are comparable to zinc levels in the upgradient wells at other landfill cells onsite, as shown in **Table 6**.

Absence of Other Metals in Well GWC-47R Having A Similar Trend as Zinc

- The target metals (per Site D&O Plan) in well GWC-47R occur in low concentrations. Well GWC-47R has been analyzed 13 times for zinc and 14 times for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, and thallium. Copper, nickel, silver, and vanadium have been analyzed 13 times. Metals (antimony, arsenic, barium, chromium, and thallium) which had more than seven detections out of the 13 to 14 analyses were compared against the zinc concentrations and are graphed on **Figure 3: Zinc in Well GWC-47R Compared to Other Metals**. A groundwater impact from the material placed in Cells 9 & 10 would show similar detection patterns of other metals along with the zinc and increasing concentration trends. A comparison of the patterns of concentration trends of the detected antimony, arsenic, barium, chromium, and thallium with zinc in well GWC-47R do not show a correlation between zinc and the other detected metals, and there are no increasing trends for the other metals. Statistical analysis of the GWC-47R zinc concentrations indicates the trend is not significant.

Zinc Is Present in Naturally Occurring Minerals Beneath the Site

- Similar to barium, zinc is found in varying amounts throughout the residual clays from weathering of sulfides in the Cartersville mining district (Kesler, 1950). Zinc chiefly occurs as a sulfide mineral. Limestones and dolomites can have zinc concentrations of 10 to 25 parts per million (Kabata-Pendias, 2001), which could result in naturally occurring concentrations in groundwater at levels similar to those observed at the Site.

3.4 pH at Wells GWC-9 and GWC-49R

The statistical exceedances of pH values in wells GWC-9 and GWC-49R are likely the result of natural variation in groundwater quality and not the result of a release from Landfill Cells 1 & 2 or 9 & 10. The following information supporting this conclusion include.

Similar pH Trend in Upgradient Wells

- The wells with pH statistical excursions are within the range of pH values (4.3 to 10.6 standard units (su)) for sitewide wells during the 14 monitoring events and are similar to pH ranges prior to waste placement in the landfill cells (**Table 6**). The wide pH range is expected in the region characterized by carbonate bedrock and overburden material containing residual clays from weathering of sulfides.
- The pH value for GWC-9 (4.8 su) is just below the lower end of the Landfill Cells 1 & 2 pH prediction limits (5.1 to 7.7 su) and is within the range of 4.3 to 10.6 su noted for sitewide downgradient wells. **Figure 4: Trends in pH for Well GWC-9 and Adjacent Downgradient Wells** shows well GWC-9 pH trend differs from the trends in adjacent downgradient wells GWC-8Z, GWC-8RR, GWC-10, GWC-10R, GWC-11, and GWC-11R. Well GWC-9 pH values are lower, and the trend fluctuates more than the adjacent wells indicating natural variation in groundwater pH due to variable recharge events.

- **Figure 5: Trends in pH for Well GWC-49R and Adjacent Wells** shows well GWC-49R pH trend differs from the trends in adjacent downgradient wells and the trend fluctuates more than the adjacent wells indicating natural variation in groundwater pH.

3.5 Calcium at Wells GWC-5, GWC-6, and GWC-45R

The statistical exceedances of calcium concentrations in wells GWC-5, GWC-6, and GWC-45R are likely the result of natural variation in groundwater quality and not the result of a release from Landfill Cells 1 & 2 and 9 & 10. The following information supporting this conclusion includes:

Similar Calcium Trend in Regional Wells

- Calcium concentrations in wells GWC-5 (12.1 mg/L), GWC-6 (16.2 mg/L), and GWC-45R (43.5 mg/L) exceeded their respective intrawell prediction limits as shown on **Table 1**. However, these concentrations are comparable to regional concentrations of calcium in wells within the Knox Dolomite and Newala Limestone. These concentrations are within the reported concentrations (24 mg/L up to 58 mg/L) in regional bedrock wells (**Appendix A: USGS Regional Data**). The statistical exceedances noted in these wells are due to differences in aquifer lithologies affecting the groundwater chemistry as shown by site-specific data (silty clay and sand with dolomite fragments in wells GWC-5 and GWC-6 to dolostone in well GWC-45R).

Geochemical Difference Between Upgradient and Downgradient Wells

- Site-specific major ion data collected in March 2018 indicate that aquifer lithologies affect the groundwater geochemistry. The March 2018 geochemical data on **Table 5** shows the upgradient overburden wells in Landfill Cells 1 & 2 have a sodium bicarbonate geochemical profile that differs from calcium bicarbonate geochemical profile in downgradient overburden wells. As shown on **Figure 6: Calcium Trends in Wells GWC-5 and GWC-6 Compared to Upgradient Wells**, upgradient wells GWA-2, GWA-2R and GWA-4RZ showed an increase in calcium concentrations from September 2019 to March 2020 similar to the increase in wells GWC-5 and GWC-6 causing an intrawell exceedance. Similar comparison is noted with upgradient wells at Landfill Cells 9 & 10 and well GWC-45R as indicated on (**Figure 7: Calcium Trends in Well GWC-45R Compared to Upgradient Wells**).

3.6 Chloride at Wells GWC-10R, GWC-14Z, and GWC-45R

Reported chloride concentrations in wells GWC-10R, GWC-14Z, and GWC-45R were 3.0 mg/L, 4.2 mg/L, and 4.4 mg/L, respectively. These concentrations slightly exceeded their prediction limits as shown in **Table 1**. The statistical exceedances of chloride at wells GWC-10R, GWC-14Z, and GWC-45R are likely the result of natural variation in groundwater quality and not the result of a release from the Landfill Cells 1 & 2 and 9 & 10. The following information supporting this conclusion include.

Similar Chloride Trend in Regional Wells

- Landfill Cells 1 & 2, 3 & 4, and 9 & 10 were constructed with liner systems to prevent waste materials from leaching into underlying groundwater. in accordance with Solid Waste Permit No. 008-018D (LI). The chloride concentrations in these wells are relatively low, and comparable to regional concentrations (1 to 16 mg/L) in wells screened in Knox Dolomite and Newala Limestone (Croft, 1963).

Similar Chloride Trend in Upgradient Wells

- As shown on **Figure 8: Chloride Trends in Wells GWC-10R and GWC-14Z Compared to Upgradient Wells**, upgradient wells GWA-2 and GWA-4RZ showed an increase in chloride concentrations from September 2019 to March 2020 similar to the increase in wells GWC-10R and GWC-14R causing an interwell exceedance. As shown on **Figure 9: Chloride Trends in Well GWC-45R Compared to Upgradient Wells**, upgradient wells, GWA-40, GWA-41, and GWA-42 showed an increase in chloride concentrations from September 2019 to March 2020 similar to the increase in well GWC-45R causing an intrawell exceedance.
- Chloride exceedances in GWC-45R appear to be affected by recharge effects due to rainfall and groundwater recharge as indicated on **Figure 10: Wells GWC-10R, GWC-14Z, and GWC-45R Chloride and Groundwater Elevations** that show the GWC-45R chloride concentration trend is very similar to the groundwater elevation trend. Higher chloride concentrations have been documented in groundwater during wetter soil moisture conditions than during drier conditions (Peters and Ratcliffe, 1998). Above average rainfall amounts were recorded in early 2020 and during the March 2020 sampling event at the Site which would contribute to these chloride concentrations. The similarity of increases in concentrations in upgradient wells concurrent with increases in downgradient wells and increasing concentrations in response to rising groundwater elevations indicates the chloride in wells GWC-10R, GWC-14Z and GWC-45R are attributed to natural variations in groundwater quality.

3.7 Sulfate at Wells GWC-14Z, GWC-21, and GWC-45R

The statistical exceedances of sulfate at wells GWC-14Z, GWC-21R, and GWC-45R are likely the result of natural variation in groundwater quality and not the result of a release from Landfill Cells 1 & 2, 3 & 4, and 9 & 10. The following information supporting this conclusion include.

Similar Sulfate Trend in Regional Wells

- The sulfate statistical exceedances were reported in downgradient wells GWC-14Z (Cells 1 & 2), GWC-21R (Cells 3 & 4) and GWC-45R (Cells 9 & 10) at 11.1 mg/L, 11.3 mg/L and 5.2 mg/L, respectively. The sulfate concentrations in these wells are relatively low and are comparable to concentrations (ranging from 2 to 14 mg/L) in regional wells screened in Knox Dolomite and Newala Limestone (Croft, 1963).

Similar Sulfate Trend in Upgradient Wells

- The sulfate concentrations in the upgradient wells of Landfill Cells 1 & 2 from February 2016 to March 2020 ranged from 0.36 to 147 mg/L. Well GWC-14Z sulfate concentration of 11.1 mg/L is within this range. **Figure 11: Sulfate Trends in Well GWC-14Z Compared to Upgradient Wells**, showed upgradient wells GWA-2, GWA-2R, and GWA-4RZ had an increases in sulfate concentrations from September 2019 to March 2020 similar to the increase in well GWC-14Z causing an intrawell exceedance.
- The sulfate concentrations in the upgradient wells of Landfill Cells 3 & 4 from February 2016 to March 2020 ranged from 0.31 to 132.46 mg/L. Well GWC-21R sulfate concentration of 11.3 mg/L is within this range (**Figure 12: Sulfate Trends in Well GWC-21R Compared to Upgradient Wells**). Some Cells 3 & 4 upgradient wells also exhibited increases in sulfate concentrations from September 2019 to March 2020 similar to well GWC-21R (**Figure 12**).
- The sulfate concentrations in the upgradient wells of Landfill Cells 9 & 10 from February 2016 to March 2020 ranged from 0.3 to 26 mg/L. Well GWC-45R sulfate concentration of 5.2 mg/L is within this range. (**Figure 13: Sulfate Trends in Well GWC-45R Compared to Upgradient Wells**)
- Sulfate concentrations in wells GWC-14Z, GWC-21R, and GWC-45R are affected by recharge effects due to rainfall and groundwater recharge as indicated on **Figure 14: Sulfate and Groundwater Elevations** that show GWC-14Z and GWC-45R sulfate concentration trend is very similar to the groundwater elevation trend. The similarity of increases in concentrations in upgradient wells concurrent with increases in downgradient wells and increasing concentrations in response to rising groundwater elevations indicates the sulfate in wells GWC-14R, GWC-21R, and GWC-45R are attributed to natural variations in groundwater quality.

3.8 Total Dissolved Solids at Wells GWC-45, GWC-45R, and GWC-48

Total Dissolved Solids (TDS) concentrations of 60.0 mg/L, 245 mg/L and 100 mg/L, respectively, in wells GWC-45, GWC-45R, and GWC-48 exceed their respective intrawell prediction limits as shown on **Table 1**. Variations in TDS concentrations reflect natural variations in groundwater quality at the Site and are not the result of a release from Landfill Cells 9 & 10. The following information supporting this conclusion include.

Similar TDS Trend in Regional Wells

- The TDS statistical exceedances reported in Landfill Cells 9 & 10 downgradient wells GWC-45, GWC-45R, and GWC-48 are relatively low, and are comparable to concentrations (ranging from 112 to 337 mg/L) in regional wells screened in Knox Dolomite and Newala Limestone (Croft, 1963).

Similar TDS Trend in Upgradient Wells

- The TDS concentrations in the upgradient wells of Landfill Cells 9 & 10 from February 2016 to March 2020 ranged from 18.0 to 249 mg/L. TDS concentration of GWC-45, GWC-45R, and GWC-48 are within this range. (**Figure 15: TDS in Wells GWC-45, GWC-45R, and GWC-48 Compared to Upgradient Wells**). Landfill Cells 9 & 10 upgradient wells also exhibited increases in TDS concentrations from September 2019 to March 2020 similar to wells GWC-45, GWC-45R, and GWC-48 (**Figure 15**).
- TDS concentrations in wells GWC-45, GWC-45R, and GWC-48 are affected by recharge as indicated on **Figure 16: TDS and Groundwater Elevations** that show GWC-45, GWC-45R, and GWC-48 TDS concentration trend is very similar to the groundwater elevation trend. The similarity of increases in concentrations in upgradient wells concurrent with increases in downgradient wells and increasing concentrations in response to rising groundwater elevations indicates the TDS in wells GWC-45, GWC-45R, and GWC-48 are attributed to natural variations in groundwater quality.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This ASD has been prepared in response to apparent SSIs presented in the *2020 Semi-Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Company Plant Bowen Cells 1 & 2, 3 & 4, and 9 & 10, dated August 31, 2020, for specific wells that had not previously been addressed in past ASDs, although the constituents themselves have been addressed in past ASDs. Based on the information presented herein, which is similar to the rationale presented for these constituents in previous ASDs, alternate sources were identified for the statistical exceedances for each of the following wells and constituents.

Constituent	Wells with Constituent Concentrations Above Statistical Prediction Limits
Barium	GWC-49R
Zinc	GWC-47R
pH	GWC-9, GWC-49R
Calcium	GWC-5, GWC-6, GWC-45R
Chloride	GWC-10R, GWC-14Z, GWC-45R
Sulfate	GWC-14Z, GWC-21R, GWC-45R
Total Dissolved Solids	GWC-45, GWC-45R, GWC-48

As outlined in Section 3, the statistical exceedances are due to variability in the groundwater quality and are not an indication of a release from the lined Landfill Cells 1 & 2, 3 & 4, and 9 & 10. The locations have met the requirements for a demonstration listed in 391-3-4.14.23(c). Therefore, the locations should remain in CCR detection monitoring at this time. Detection monitoring results and D&O Plan target metals results should continue to be presented in the subsequent semi-annual groundwater monitoring reports.

5.0 REFERENCES

- Amec Foster Wheeler Environment & Infrastructure, Inc., 2017. Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 Alternate Source Demonstration Cells 3 & 4 (Antimony in wells GWC-16R and GWC-21R, and Nickel in wells GWC-16R), August 30, 2017.
- Croft, M.G., 1963. Geology and ground-water resources of Bartow County, Georgia. U.S. Geological Survey Water-Supply Paper 1619-FF, 37 p.
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- Wood Environment & Infrastructure Solutions, Inc., 2018. Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 Alternate Source Demonstration Cells 1 & 2, 3 & 4, and 9 & 10 (Barium, Zinc, pH, Calcium, Chloride, Sulfate, and TDS various wells), April 19, 2018.

TABLES

**TABLE 1
SUMMARY OF MARCH 2020 STATISTICAL EXCEEDANCES NOT PREVIOUSLY ADDRESSED IN AN ASD**

Cell	Well	Parameter	SSI During Previous Monitoring Event (September 2019)	Initial Exceedance Concentration (March 2020)	Prediction Limit	Initial Exceedance Verified?
			Yes/No	mg/L	mg/L	(Verified/Not Verified)
Cell 1 & 2	GWC-5	Calcium	No	12.1	8.151	Verified
Cell 1 & 2	GWC-6	Calcium	No	16.2	16.11	Verified
Cell 1 & 2	GWC-10R	Chloride	No	3.0	2.988	Verified
Cell 1 & 2	GWC-14Z	Chloride	Yes	4.2	2.988	Verified
Cell 1 & 2	GWC-14Z	Sulfate	No	11.1	8.012	Verified
Cell 1 & 2	GWC-9	pH	No	4.8	5.1-7.7	Verified
Cell 3 & 4	GWC-21R	Sulfate	No	11.3	7.908	Verified
Cell 9 & 10	GWC-49R	Barium	Yes	0.026	0.01169	Verified
Cell 9 & 10	GWC-47R	Zinc	Yes	0.032	0.01788	Verified
Cell 9 & 10	GWC-45R	Calcium	No	43.5	41.57	Verified
Cell 9 & 10	GWC-45R	Chloride	No	4.4	4.3	Verified
Cell 9 & 10	GWC-45R	Sulfate	No	5.2	4.171	Verified
Cell 9 & 10	GWC-45	TDS	No	60.0	39.0	Verified
Cell 9 & 10	GWC-45R	TDS	No	245	226.6	Verified
Cell 9 & 10	GWC-48	TDS	No	100	62.49	Verified
Cell 9 & 10	GWC-49R	pH	Yes	8.2	5.5-7.9	Verified

Note:

The exceedances are listed as verified because the wells were not resampled and the exceedances were for the same constituents (barium, zinc, calcium, chloride, pH, sulfate, and TDS) that have been addressed in previous ASDs.

**TABLE 2
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 1 & 2 - MARCH 2020**

Parameters		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Statistical Method		Interwell	Intrawell	Interwell	Interwell	Interwell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell
Wells	Hydrogeologic Location	Appendix III								Georgia Solid Waste Permit Metals														
GWC-10	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-10R	Downgradient	0	0	1***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-11	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-11R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-12	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-13	Downgradient	0	0	1^	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-13RZ	Downgradient	0	0	1^	0	0	0	0	0	0	1^	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-14Z	Downgradient	0	0	1***	0	0	1***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-15R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-15Z	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-5	Downgradient	0	1***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-6	Downgradient	0	1***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-6RZ	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-7Z	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-8RR	Downgradient	0	0	0	0	1^	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-8Z	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-9	Downgradient	0	0	0	0	1***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

0 Indicates the parameter concentration did not exceed a statistical prediction limit

1 Indicates the parameter concentration was above the statistical prediction limit

^ Exceedance addressed in April 2018 ASD

*** Exceedance not addressed in previous ASD

**TABLE 3
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 3 & 4 - MARCH 2020**

Parameters		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Statistical Method		Interwell	Intrawell	Intrawell	Interwell	Interwell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	
Wells	Hydrogeologic Location	Appendix III								Georgia Solid Waste Permit Metals															
GWC-16R	Downgradient	0	1 [^]	0	0	0	0	0	1 [^]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-17R	Downgradient	0	1 [^]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-18	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-18R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-19R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-20R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-21R	Downgradient	0	1 [^]	0	0	0	1 ^{***}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-22R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-23R	Downgradient	0	1 [^]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-24R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-25R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
0 Indicates the parameter concentration did not exceed a statistical prediction limit
1 Indicates the parameter concentration was above the statistical prediction limit
[^] Exceedance addressed in August 2017 ASD and/or April 2018 ASD
^{***} Exceedance not addressed in previous ASD

**TABLE 4
EVALUATION OF STATISTICAL EXCEEDANCES FOR LANDFILL CELLS 9 & 10 - MARCH 2020**

Parameters		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Statistical Method		Interwell	Intrawell	Intrawell	Interwell	Interwell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell	Intrawell
Wells	Hydrogeologic Location	Appendix III							Georgia Solid Waste Permit Metals															
GWC-44	Downgradient	0	0	0	0	1 ^ ^	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-45	Downgradient	0	0	0	0	1 ^ ^	0	1 ***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-45R	Downgradient	0	1 ***	1 ***	0	0	1 ***	1 ***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-46R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-47	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 ^ ^
GWC-47R	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 ***
GWC-48	Downgradient	0	0	0	0	1 ^ ^	0	1 ***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-49R	Downgradient	0	0	0	0	1 ***	0	0	0	0	1 ***	0	0	0	0	0	0	0	0	0	0	0	0	0
GWC-49Z	Downgradient	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
 0 Indicates the parameter concentration did not exceed a statistical prediction limit
 1 Indicates the parameter concentration was above the statistical prediction limit
 ^ Exceedance addressed in April 2019 ASD
 *** Exceedance not addressed in previous ASD

**TABLE 5
SUMMARY OF GEOCHEMICAL DATA**

Landfill Cell	Type	Water Unit	Well	Alkalinity Carbonate as CaCO3	Calcium	Chloride	Magnesium	pH	Potassium	Sodium	Sulfate	Total Dissolved Solids	Major Cation	Major Anion	Major Charge Balance Percent
Cells 1&2	UP	OB	GWA-3	1	1.2	1.5	0.35	5.4	0.26	1.7	1	25	Sodium	Bicarbonate	4.8
Cells 1&2	UP	OB	GWA-50	1	1.8	1.4	0.33	5.64	0.34	2.5	1	25	Sodium	Bicarbonate	-3.1
Cells 1&2	DOWN	OB	GWC-13	1	40.9	4.6	11.7	7.33	2.4	2.3	59.1	211	Calcium	Bicarbonate	1.9
Cells 1&2	DOWN	OB	GWC-15Z	1	25	0.8	14.4	7.89	0.97	2	1.6	119	Calcium	Bicarbonate	8.7
Cells 1&2	UP	ROCK	GWA-1	1	28.5	1.7	16.6	7.58	1.3	6.1	1.5	140	Calcium	Bicarbonate	5.7
Cells 1&2	UP	ROCK	GWA-2	1	63	1.9	17.8	6.55	1	2	147	295	Calcium	Sulfate	7.4
Cells 1&2	UP	ROCK	GWA-2R	1	33	1.6	12	7.31	0.37	2.2	14.8	130	Calcium	Bicarbonate	13.4
Cells 1&2	UP	ROCK	GWA-4RZ	1	47.5	2.9	22.4	7.3	0.73	5.4	25.4	237	Calcium	Bicarbonate	6.5
Cells 1&2	UP	ROCK	GWA-50R	1	2.6	1.1	1.1	5.46	0.26	1.1	1	25	Calcium	Bicarbonate	10.1
Cells 1&2	DOWN	ROCK	GWC-11R	1	27.5	2	15.2	7.72	1.2	0.91	2.2	139	Calcium	Bicarbonate	7.2
Cells 1&2	DOWN	ROCK	GWC-13RZ	1	41.4	8.3	19.4	7.58	1.2	29.1	75.8	281	Calcium	Bicarbonate	2.7
Cells 1&2	DOWN	ROCK	GWC-8RR	1	25	1.3	10.8	7.9	1.2	1.1	1.2	117	Calcium	Bicarbonate	10.3
Cells 3&4	UP	OB	GWA-36	1	25	2.2	7.3	6.6	0.49	3.5	1	81	Calcium	Bicarbonate	28.0
Cells 3&4	UP	OB	GWA-37	1	0.81	1.1	0.33	5.72	0.84	3.2	1	25	Sodium	Bicarbonate	0.8
Cells 3&4	UP	OB	GWA-38	1	1.4	2.4	0.4	5.57	0.41	4.7	1.5	33	Sodium	Bicarbonate	7.8
Cells 3&4	UP	OB	GWA-52	1	26.2	3	15	7.34	0.96	3.7	8.5	150	Calcium	Bicarbonate	6.5
Cells 3&4	UP	OB	GWA-53	1	28.6	2.7	17.1	7.74	0.68	1.5	1.9	138	Calcium	Bicarbonate	10.2
Cells 3&4	UP	OB	GWA-54	1	25	0.93	14.3	7.39	0.9	3.3	4.9	133	Calcium	Bicarbonate	15.4
Cells 3&4	UP	OB	GWA-55	1	39.6	3.6	23.2	7	1.2	0.85	28.7	212	Calcium	Bicarbonate	7.5
Cells 3&4	UP	OB	GWA-56	1	26	6.9	21.1	8.03	2.2	72.8	94.8	349	Sodium	Bicarbonate	5.6
Cells 3&4	UP	ROCK	GWA-36R	1	30.6	3.2	17.8	7.26	1.2	1.7	8.2	169	Calcium	Bicarbonate	7.7
Cells 3&4	UP	ROCK	GWA-51RZ	1	46.1	3.3	22.5	7.62	1.1	3.5	27.3	233	Calcium	Bicarbonate	5.2
Cells 3&4	UP	ROCK	GWA-53R	1	29.3	2.6	16.9	7.8	0.7	1.5	1.9	132	Calcium	Bicarbonate	11.2
Cells 3&4	UP	ROCK	GWA-55R	1	38.2	3.2	23	7.11	0.97	1.2	22	207	Calcium	Bicarbonate	8.5
Cells 3&4	DOWN	ROCK	GWC-16R	1	60.6	2.1	35.8	7.11	1.1	8.2	8.8	312	Calcium	Bicarbonate	7.9
Cells 3&4	DOWN	ROCK	GWC-17R	1	65.6	6.1	38.9	7.16	0.73	2.5	7	323	Calcium	Bicarbonate	10.9
Cells 3&4	DOWN	ROCK	GWC-21R	1	65.6	4.4	40.4	6.99	1.1	1.5	1	306	Magnesium	Bicarbonate	10.8
Cells 3&4	DOWN	ROCK	GWC-22R	1	32.1	2.8	18.7	7.49	0.88	1.7	2.4	159	Calcium	Bicarbonate	7.8
Cells 3&4	DOWN	ROCK	GWC-23R	1	59.9	2.2	39.1	7.4	0.7	7.5	14	290	Magnesium	Bicarbonate	9.0
Cells 9&10	UP	OB	GWA-39Z	1	26.4	1.4	15.5	7.42	1.2	1.2	3.8	126	Calcium	Bicarbonate	8.6
Cells 9&10	UP	OB	GWA-40	1	25.7	2.4	14.8	7.56	0.73	1.1	3.8	123	Calcium	Bicarbonate	7.4
Cells 9&10	UP	OB	GWA-41	1	39.6	3	23.2	7.08	1.8	0.97	11.5	192	Calcium	Bicarbonate	10.1
Cells 9&10	UP	OB	GWA-42	1	32.6	3.2	15.6	7.6	0.34	2.3	2.1	134	Calcium	Bicarbonate	8.9
Cells 9&10	UP	OB	GWA-43	1	3.6	1.3	0.46	5.85	0.51	1.3	1	25	Calcium	Bicarbonate	2.9
Cells 9&10	DOWN	OB	GWC-44	1	9	6.5	2.1	4.34	1.7	2.2	32.4	41	Calcium	Sulfate	-8.8
Cells 9&10	DOWN	OB	GWC-45	1	0.77	1.2	0.48	4.6	0.23	1.9	1	25	Sodium	Chloride	22.9
Cells 9&10	DOWN	OB	GWC-47	1	25	2.7	12.6	7.42	0.69	3	3.7	102	Calcium	Bicarbonate	9.6
Cells 9&10	DOWN	OB	GWC-48	1	3.5	2.6	0.35	5.14	0.27	2.3	1	25	Calcium	Bicarbonate	-2.2
Cells 9&10	DOWN	OB	GWC-49Z	1	0.81	1.4	0.24	5.12	0.55	3.5	2.4	25	Sodium	Bicarbonate	9.2
Cells 9&10	UP	ROCK	GWA-39RZ	1	32.6	2.6	17.6	7.49	1.1	5.8	15.5	150	Calcium	Bicarbonate	6.6
Cells 9&10	UP	ROCK	GWA-41R	1	41.4	4	23.8	7.04	2.4	0.74	10.9	210	Calcium	Bicarbonate	8.1
Cells 9&10	UP	ROCK	GWA-43R	1	28	2.8	16	7.66	0.55	1.4	5.1	117	Calcium	Bicarbonate	7.9
Cells 9&10	DOWN	ROCK	GWC-49R	1	25	1.6	14	7.51	0.75	1.9	3.1	88	Calcium	Bicarbonate	6.6

Notes:

UP = Upgradient well (background well)

DOWN = Downgradient well

OB = overburden water unit

ROCK = bedrock water unit

Data shown is from the March 2018 sampling event

The table is color-coded to show similarities and differences. The colors depict a ranking of the concentrations from highest to lowest along a column for a single parameter.

The highest concentrations are shown in dark red and the lowest concentration are shown in dark green with the concentrations between the highest and lowest shown in yellow.

Lighter shadings of red, green, and yellow indicate the next highest or next lowest concentration.

**TABLE 6
COMPARISONS OF BARIUM, ZINC, AND pH**

Barium Concentrations in Well GWC-49R	Barium Concentrations Prior to Waste Placement in Cells 9 & 10 in November 2015	Barium Concentrations in Cell 9 & 10 Upgradient Wells	Barium Concentrations in Sitewide Upgradient Wells
GWC-49R March 2020: 0.026 mg/L	August 2007 to October 2015 in Bedrock Well GWC-45R: 0.013 to 0.025 mg/L	March 2016 to March 2020 Bedrock Wells: 0.0069 to 0.0462 mg/L	March 2016 to March 2020 Bedrock Wells: 0.0048 to 0.053 mg/L
GWC-49R: March 2016 to March 2020: 0.0093 to 0.026 mg/L	August 2007 to October 2015 in Overburden Well GWC-45: 0.0055 to 0.11 mg/L	March 2016 to March 2020 Overburden Wells: 0.0043 to 0.037 mg/L	March 2016 to March 2020 Overburden Wells: 0.0041 to 0.042 mg/L
		March 2020 Bedrock Wells: 0.0069 to 0.031 mg/L	March 2020 Bedrock Wells: 0.0069 to 0.053 mg/L
		March 2020 Overburden Wells: 0.0066 to 0.022 mg/L	March 2020 Overburden Wells: 0.0041 to 0.039 mg/L
Zinc Concentrations in Well GWC-47R	Zinc Concentrations Prior to Waste Placement in Cells 9 & 10 in November 2015	Zinc Concentrations in Cell 9 & 10 Upgradient Wells	Zinc Concentrations in Sitewide Upgradient Wells
GWC-47R March 2020: 0.032 mg/L	August 2007 to October 2015 in Bedrock Well GWC-45R: 0.0027 to 0.051 mg/L	March 2016 to March 2020 Bedrock Wells: 0.0012 to 0.009 mg/L	March 2016 to March 2020 Bedrock Wells: 0.0012 to 0.0627 mg/L
GWC-47R: March 2016 to March 2020: 0.0111 to 0.032 mg/L	August 2007 to October 2015 in Overburden Well GWC-45: 0.003 to 0.31 mg/L	March 2016 to March 2020 Overburden Wells: 0.0013 to 0.0162 mg/L	March 2016 to March 2020 Overburden Wells: 0.0013 to 0.56 mg/L
		March 2020 Bedrock Wells: 0.0022 to 0.009 mg/L	March 2020 Bedrock Wells: 0.0022 to 0.056 mg/L
		March 2020 Overburden Wells: 0.002 to 0.012 mg/L	March 2020 Overburden Wells: 0.002 to 0.54 mg/L

**TABLE 6
COMPARISONS OF BARIUM, ZINC, AND pH**

pH Values in Wells GWC-9 and GWC-49R	Prediction Limits	pH Range Prior to Waste Placement	pH Range February 2016 to March 2020 (Sitewide Wells)
<p>Cells 1 & 2 GWC-9 March 2020: 4.8 su</p> <p>GWC-9 March 2016 to March 2020: 4.8 to 6.9 su</p>	7.7 to 5.1 su	<p>Cells 1 & 2 >8.5 to 4.6 su (August 2007 to December 2008)</p>	<p>10.6 to 4.3 su</p> <p>Sitewide Upgradient Wells February 2016 to March 2020 8.3 to 4.9 su</p> <p>Sitewide Downgradient Wells February 2016 to March 2020 10.6 to 4.3 su</p>
<p>Cells 9 & 10 GWC-49R March 2020: 8.2 su</p> <p>GWC-49R March 2016 to March 2020: 7.5 to 8.2</p>	7.9 to 5.5 su	<p>Cells 9 & 10 >8.5 to 4.5 su (Aug 2011)</p>	<p>10.6 to 4.3 su</p> <p>Sitewide Upgradient Wells February 2016 to March 2020 8.3 to 4.9 su</p> <p>Sitewide Downgradient Wells February 2016 to March 2020 10.6 to 4.3 su</p>

Notes:

mg/L – milligrams per liter

su – standard units

FIGURES

Legend

● Spring Sampling Location

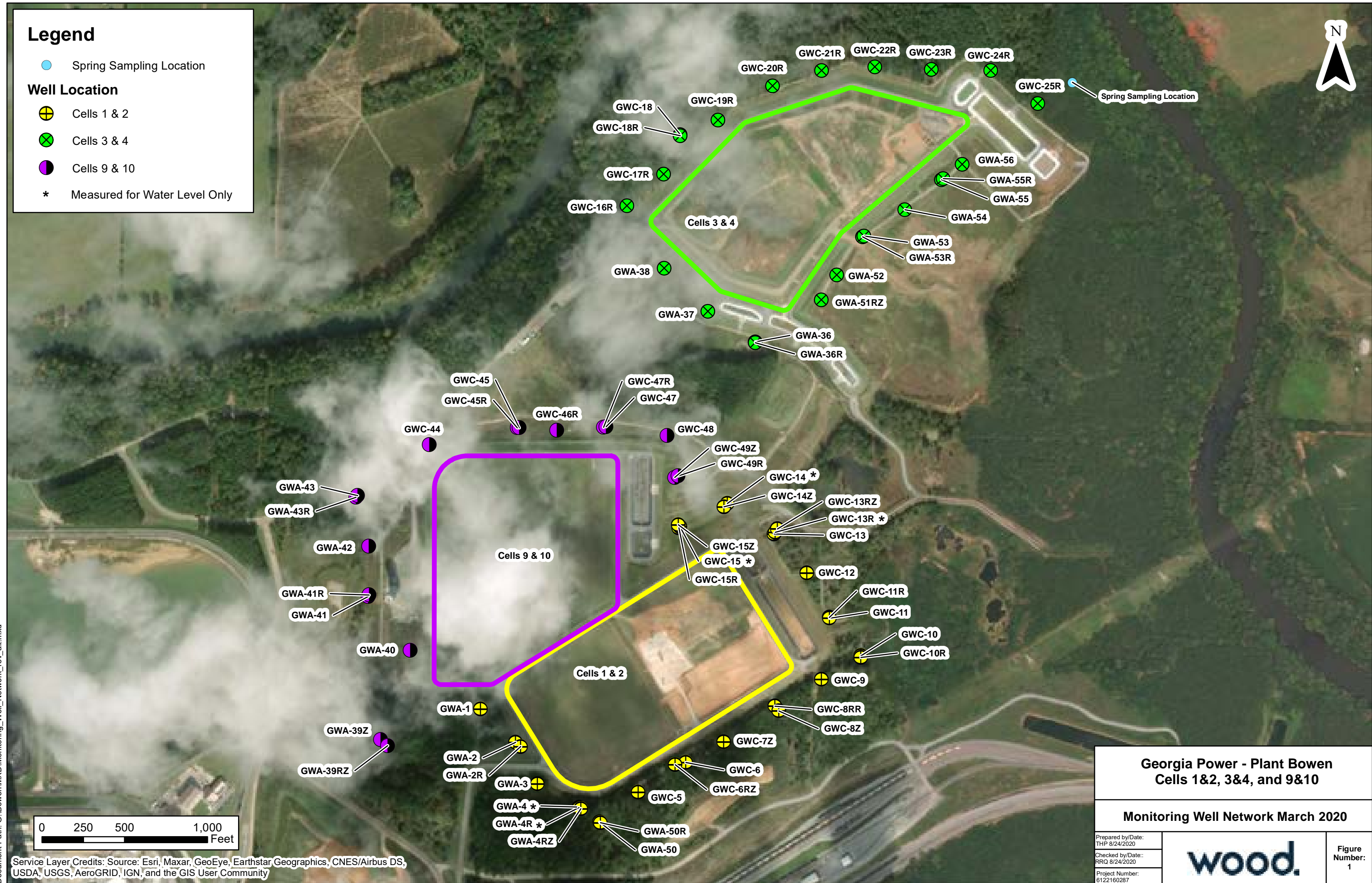
Well Location

⊕ Cells 1 & 2

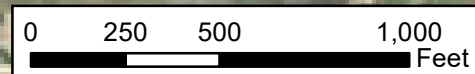
⊗ Cells 3 & 4

● Cells 9 & 10

* Measured for Water Level Only



Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10		
Monitoring Well Network March 2020		
Prepared by/Date: THP 8/24/2020		Figure Number: 1
Checked by/Date: RRQ 8/24/2020		
Project Number: 6122160287		



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

Document Path: G:\Bowen\MXD\Monitoring_Well_Network_rev_atl.mxd

Figure 2A: Barium in Well GWC-49R Compared with Upgradient Wells

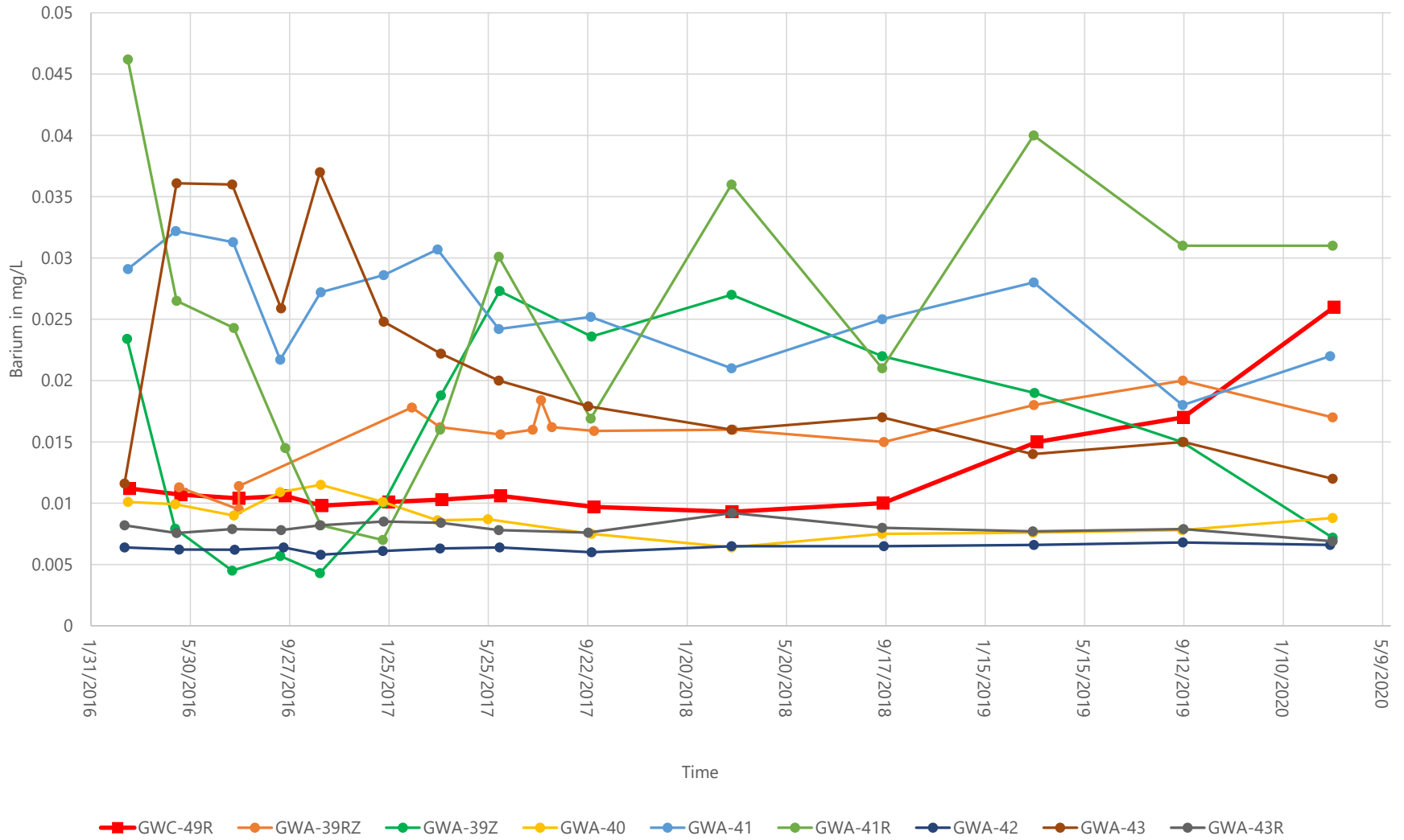


Figure 2B: Detected Metal Trends in Well GWC-49R

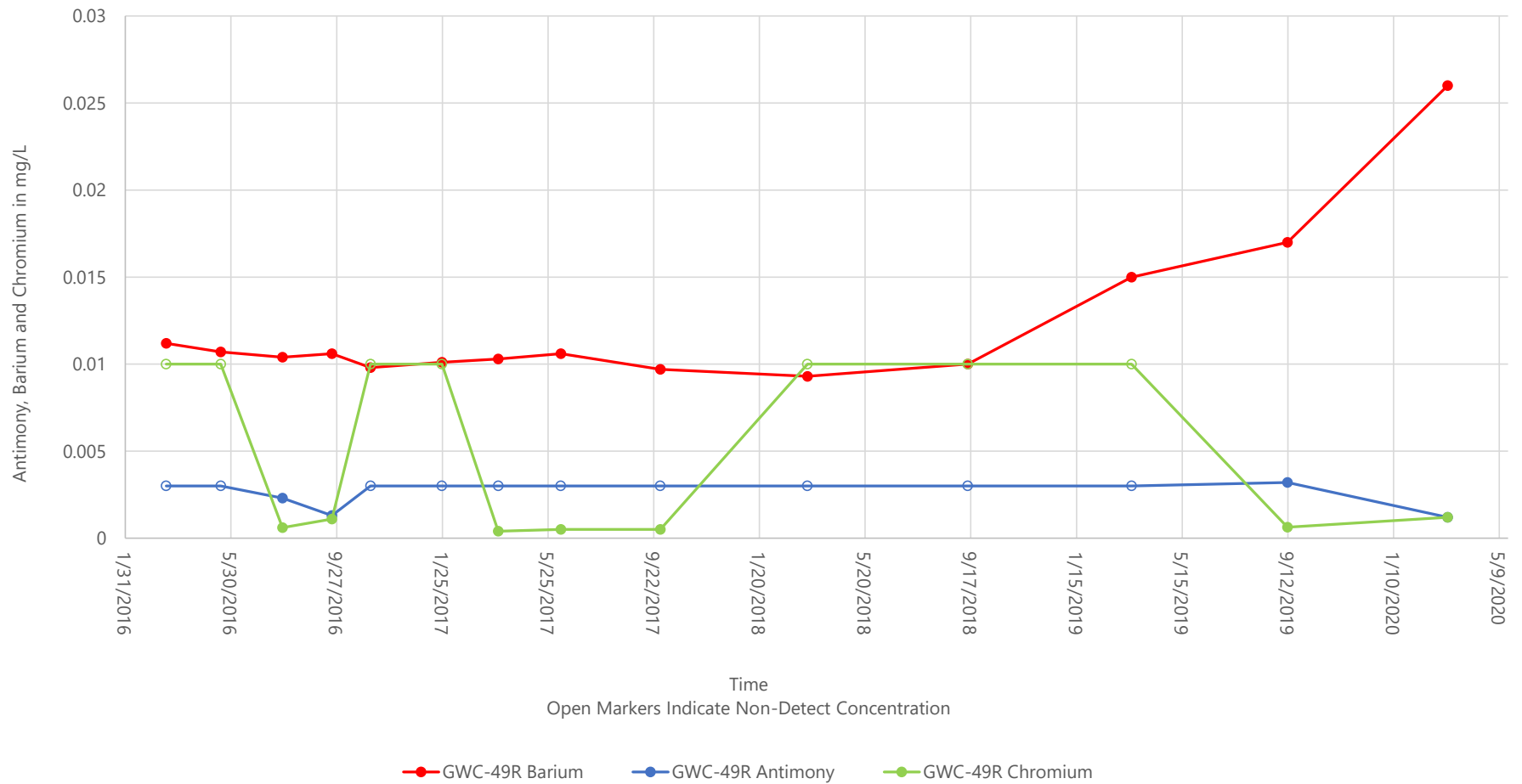


Figure 3: Zinc in Well GWC-47R Compared to Other Metals

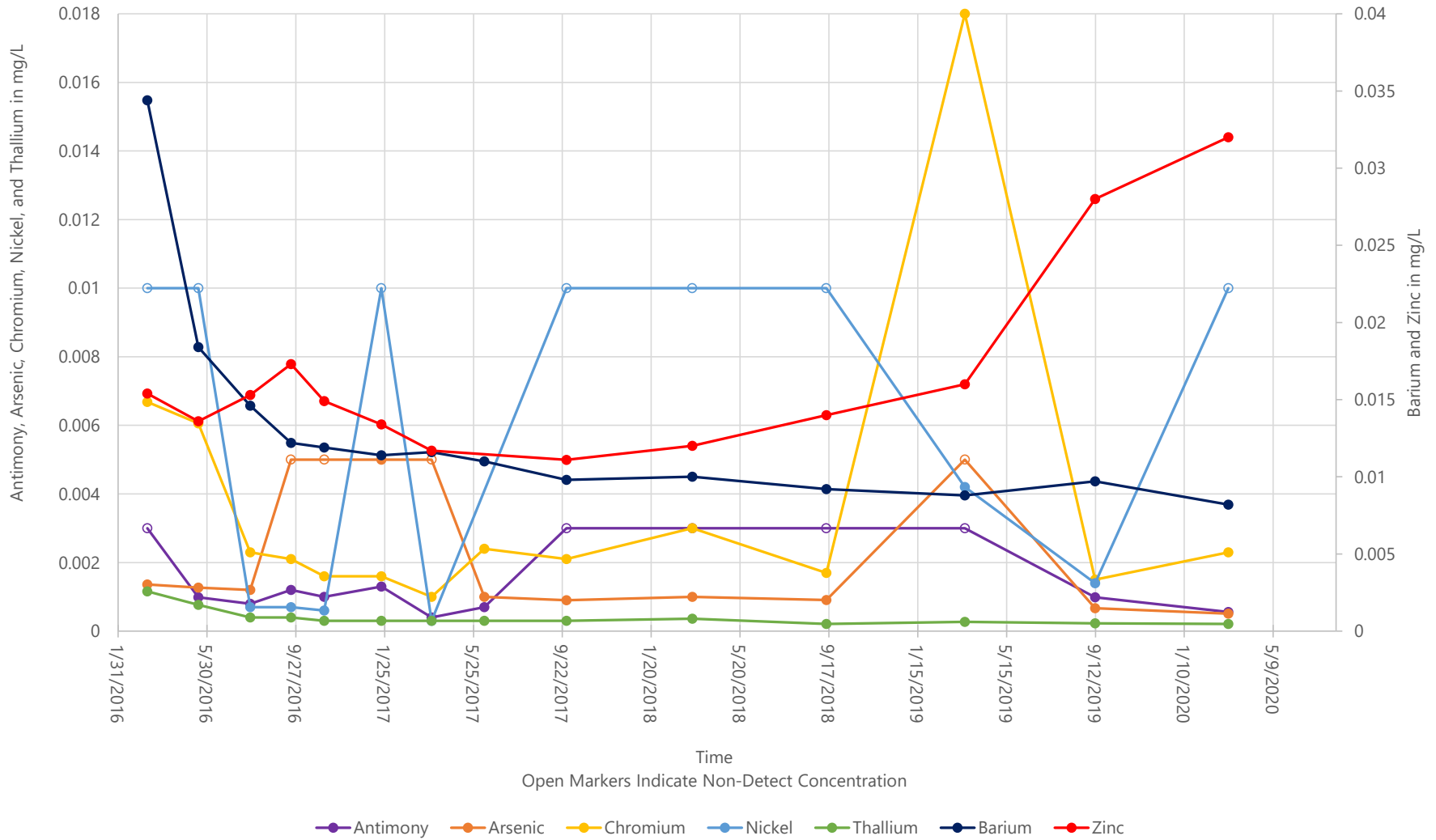


Figure 4: Trends in pH for Well GWC-9 and Adjacent Downgradient Wells

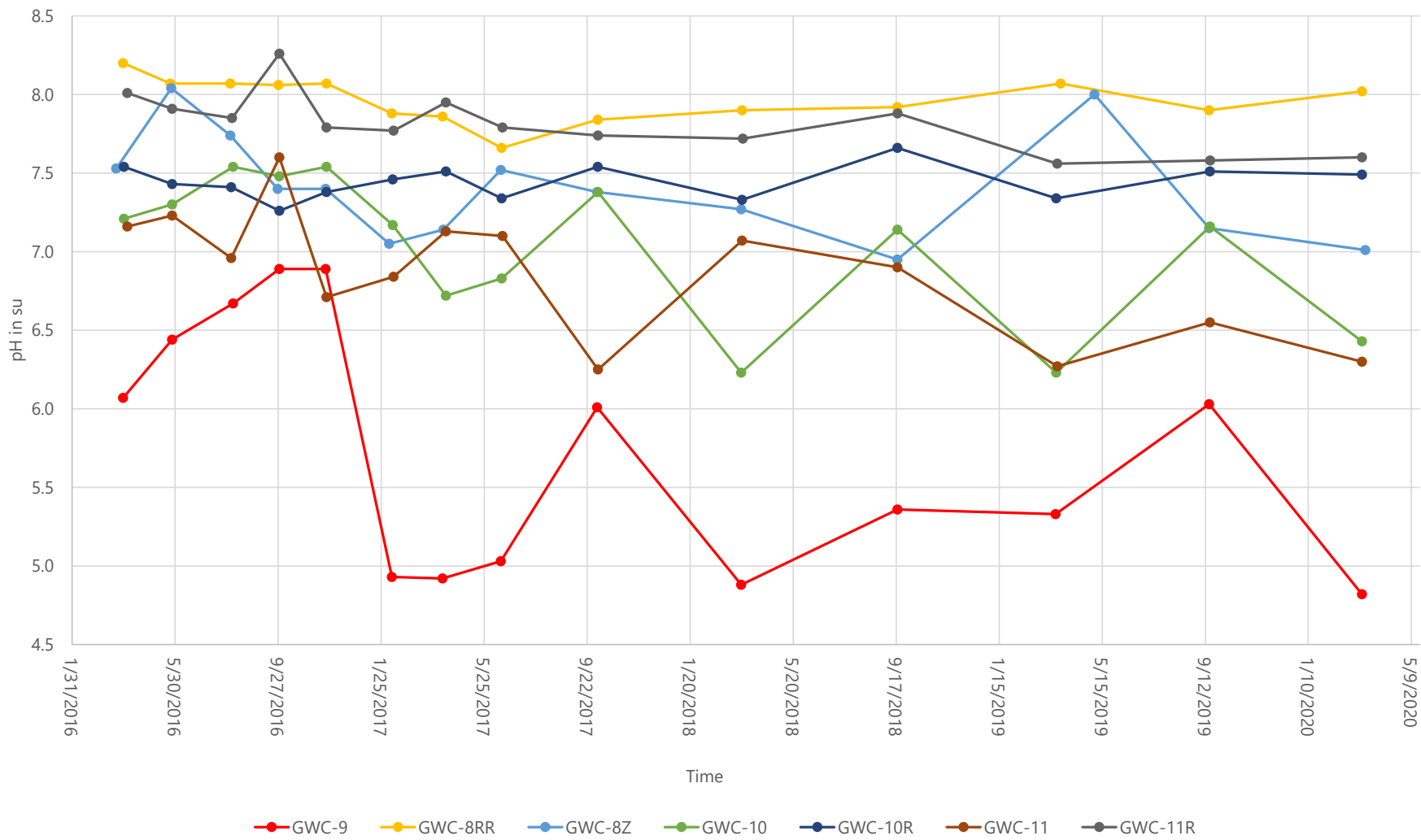


Figure 5: Trends in pH for Well GWC-49R and Adjacent Wells

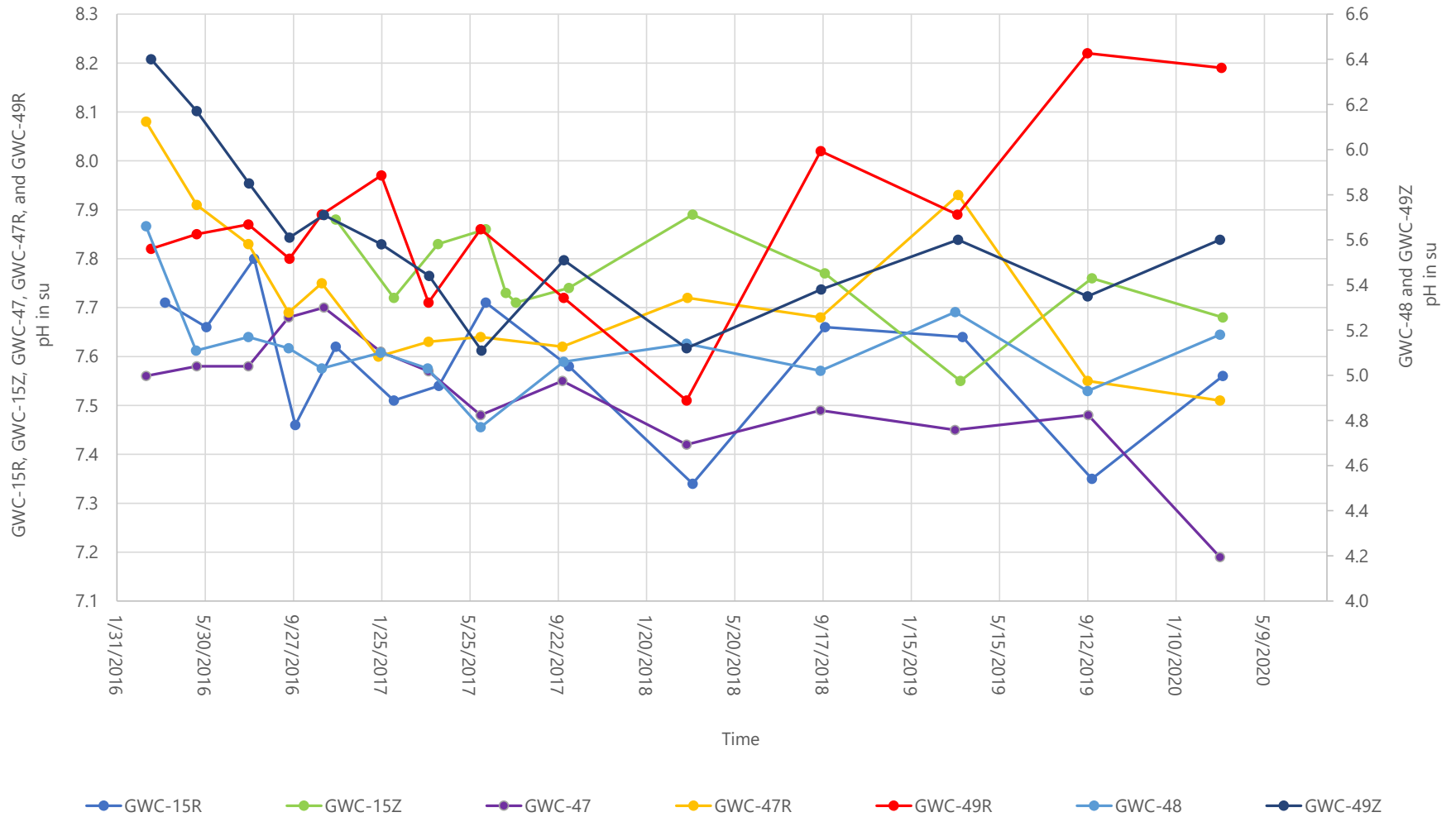


Figure 6: Calcium Trends in Wells GWC-5 and GWC-6 Compared to Upgradient Wells

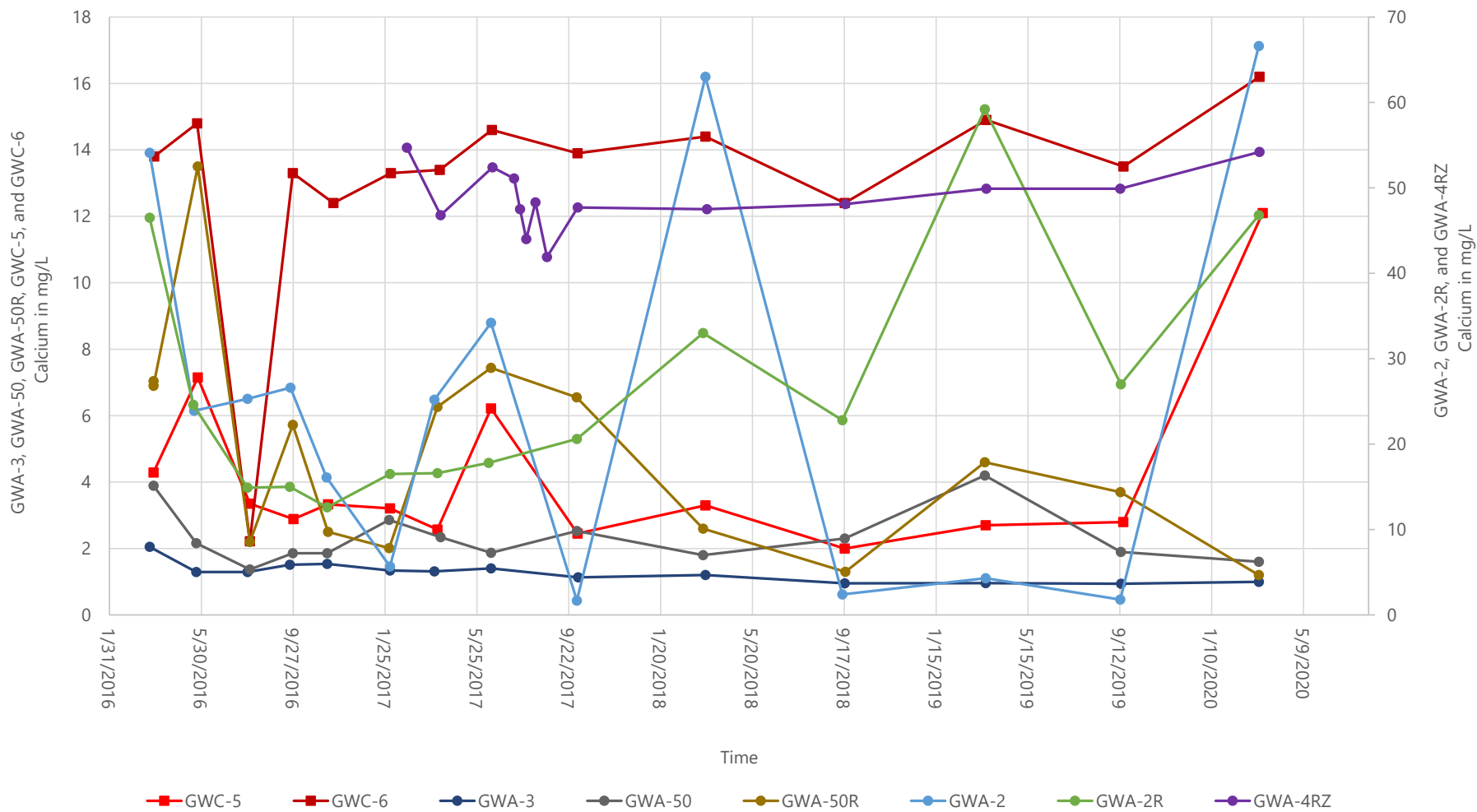


Figure 7: Calcium Trends in Well GWC-45R Compared to Upgradient Wells

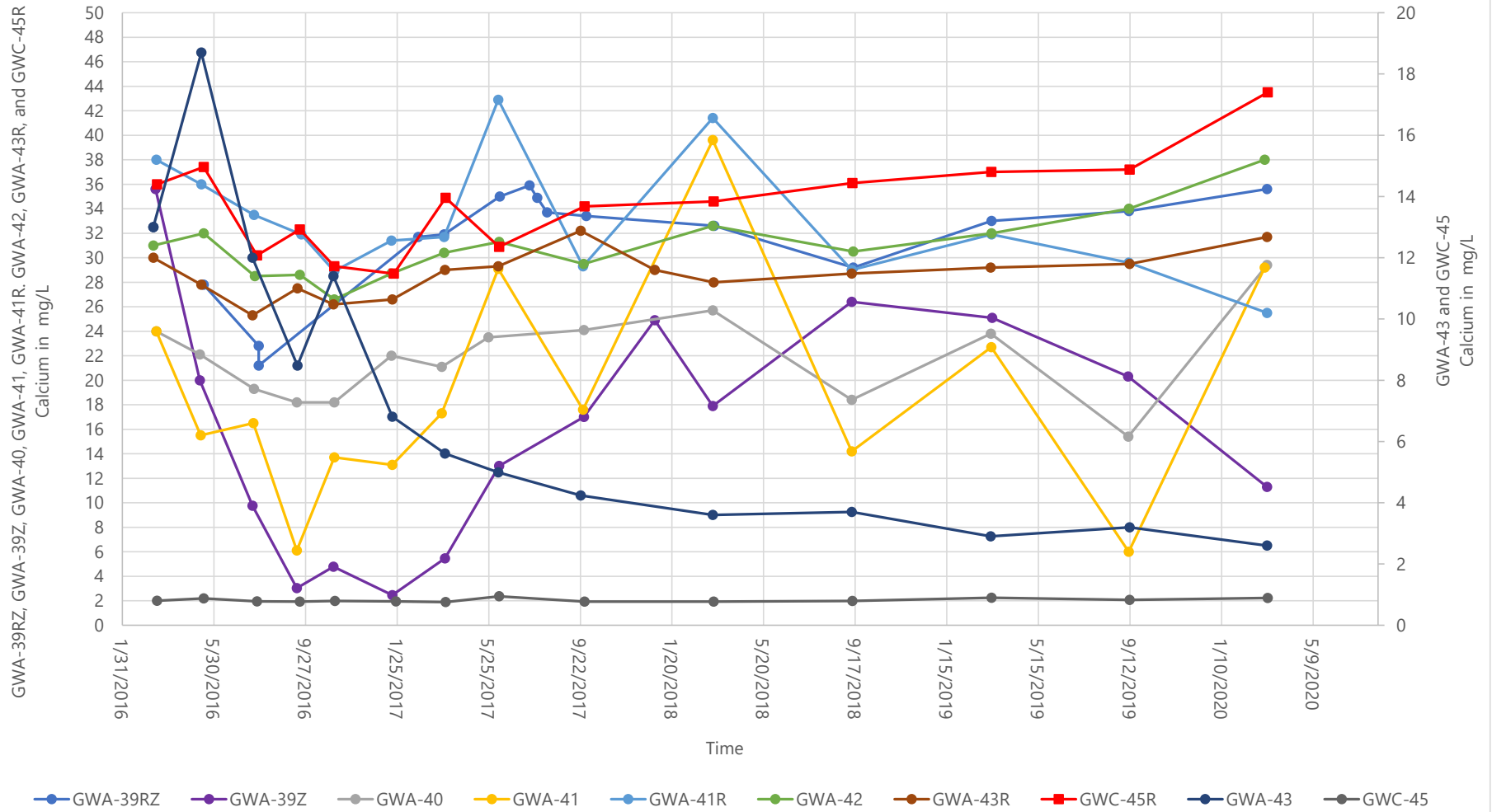


Figure 8: Chloride Trends in Wells GWC-10R and GWC-14Z Compared to Upgradient Wells

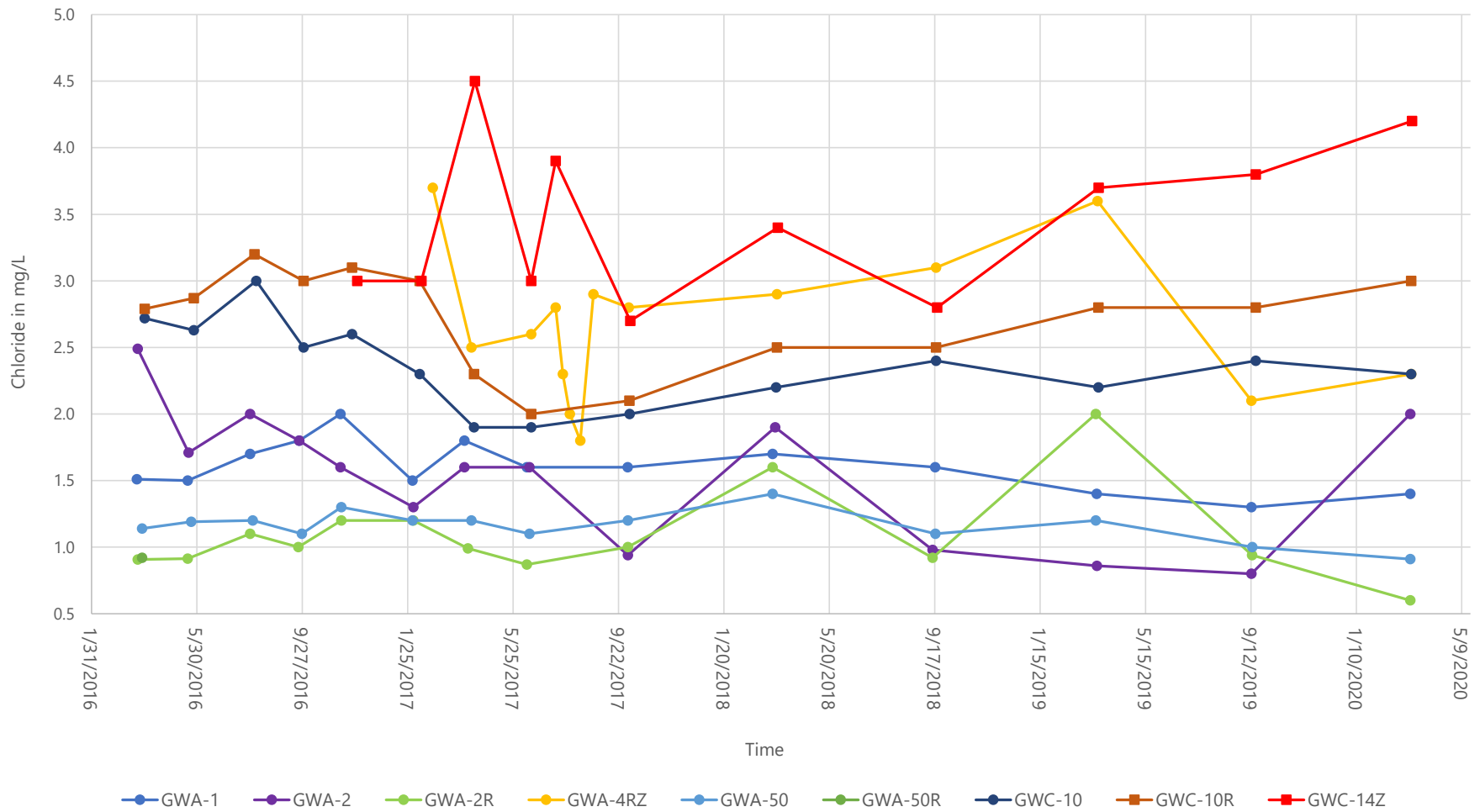


Figure 9: Chloride Trends in Well GWC-45R Compared to Upgradient Wells

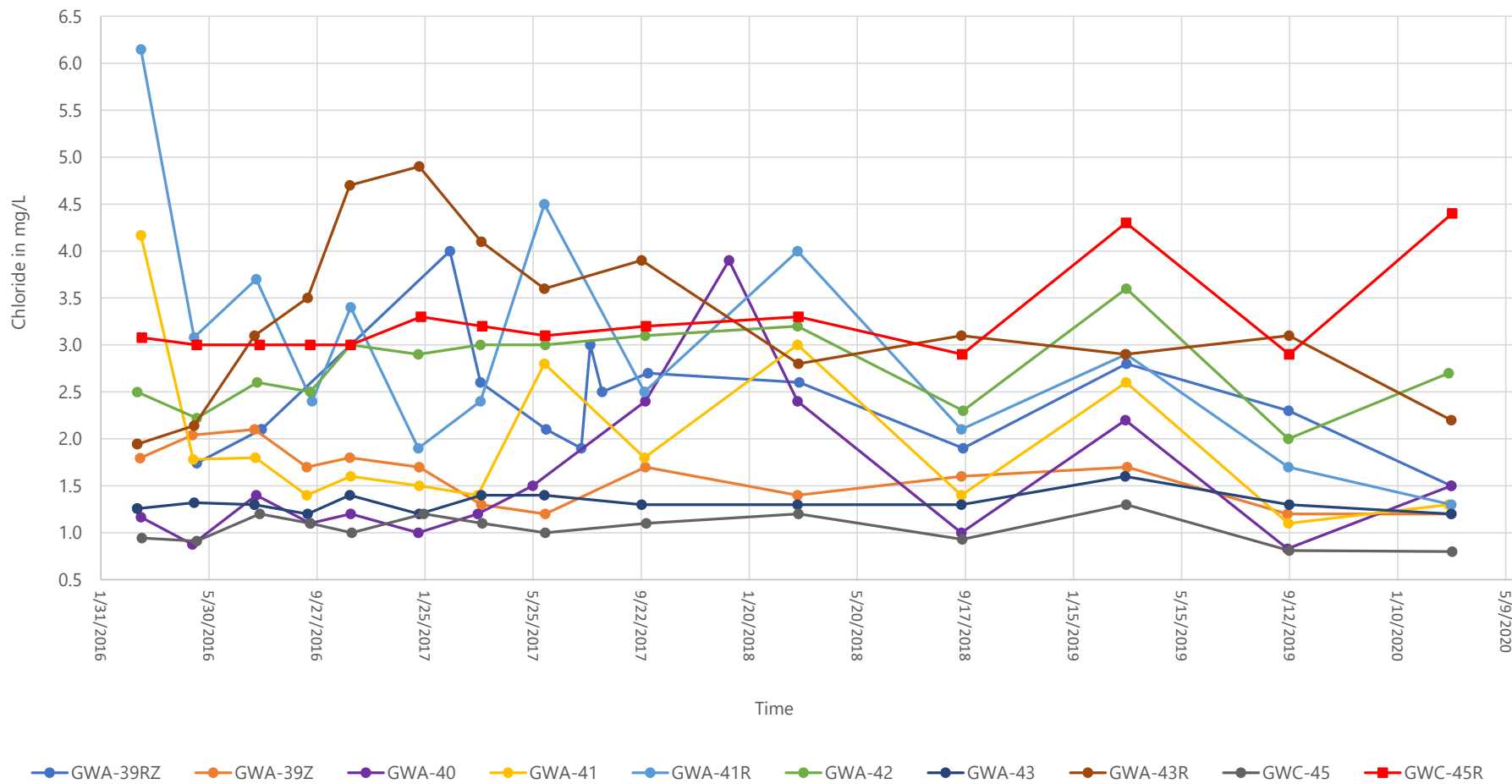


Figure 10: Wells GWC-10R, GWC-14Z and GWC-45R Chloride and Groundwater Elevations

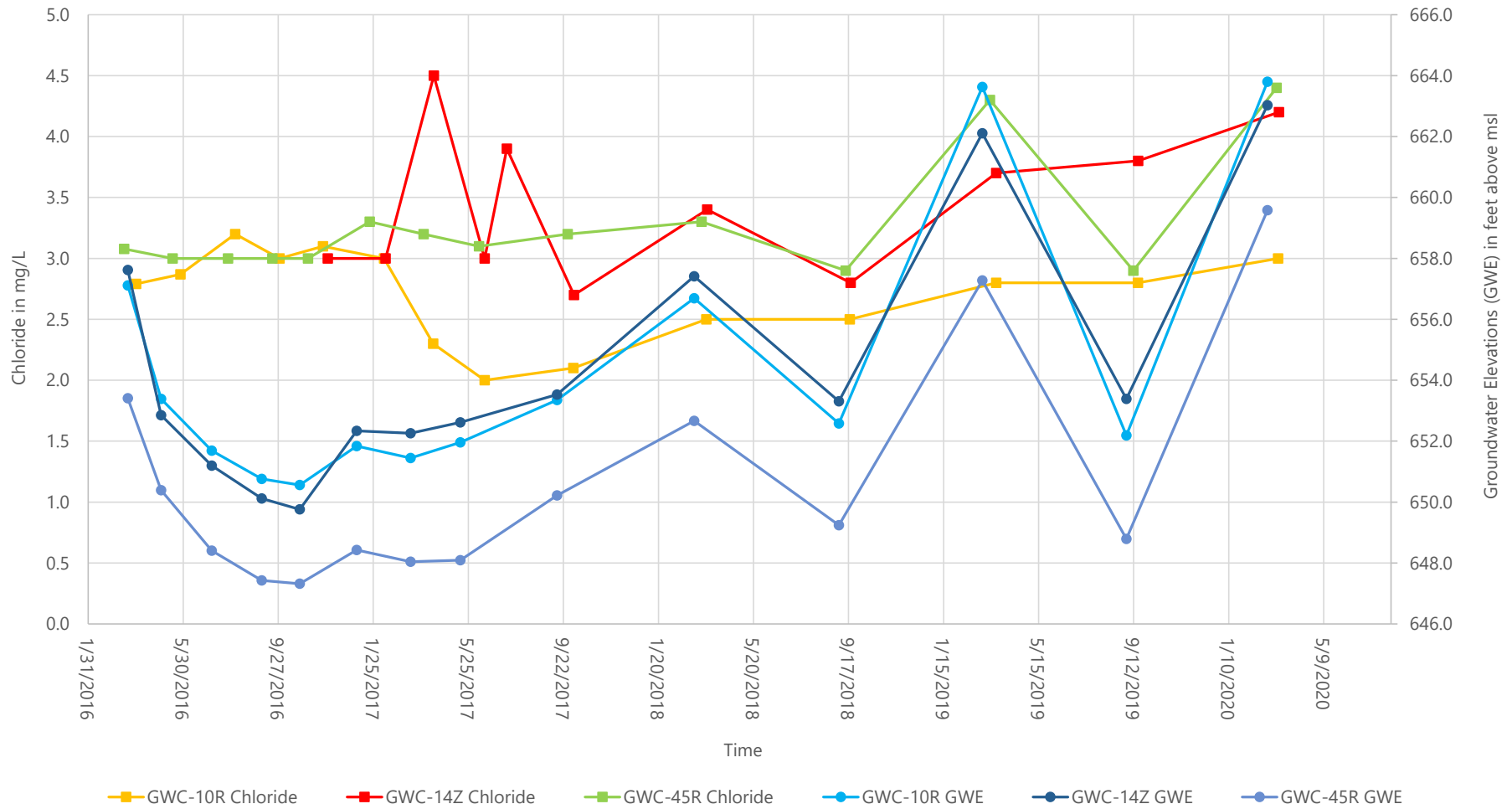


Figure 11: Sulfate Trends in Well GWC-14Z Compared to Upgradient Wells

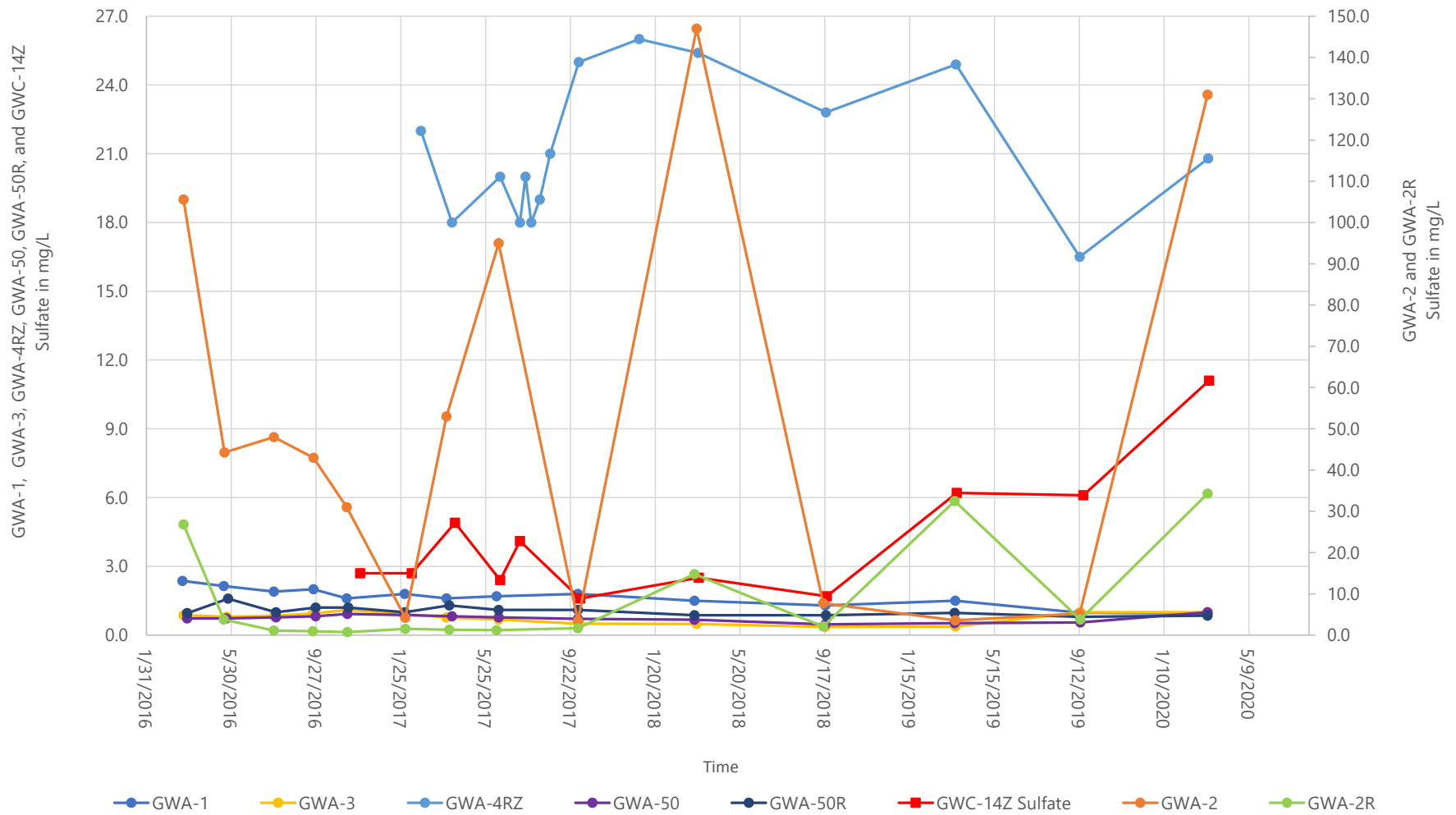


Figure 12: Sulfate Trends in Well GWC-21R Compared to Upgradient Wells

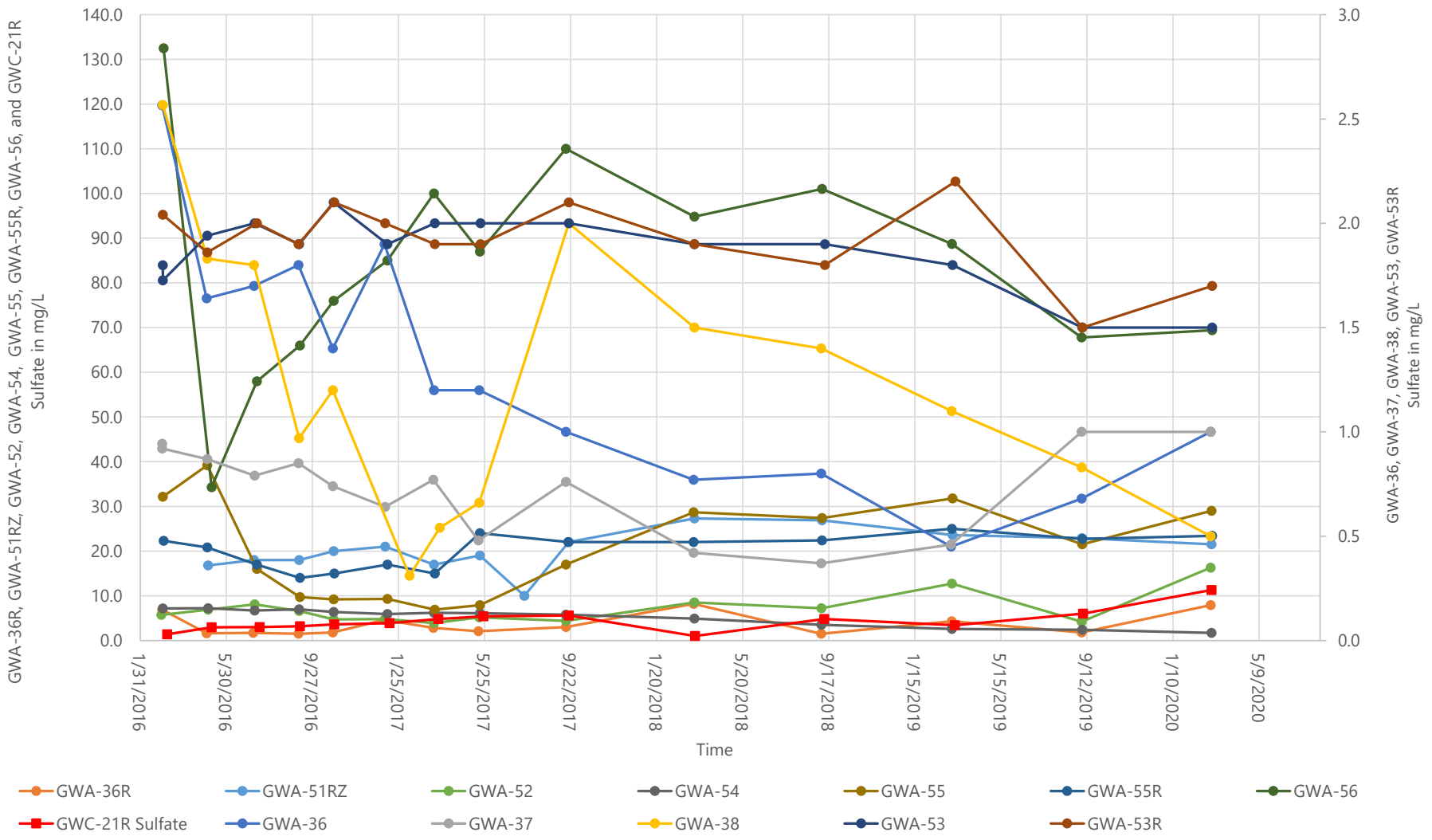


Figure 13: Sulfate Trends in Well GWC-45R Compared to Upgradient Wells

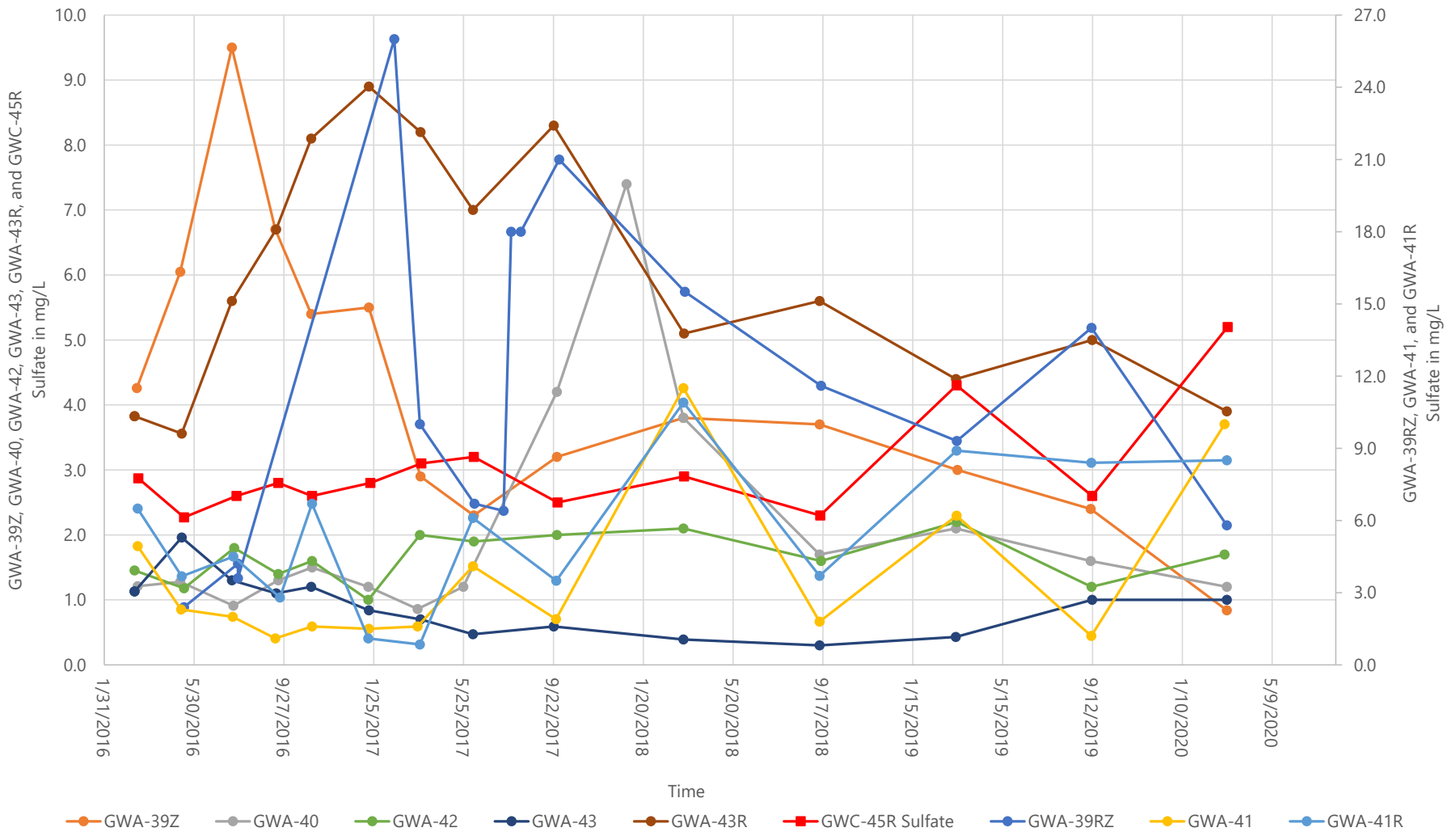


Figure 14: Sulfate and Groundwater Elevations

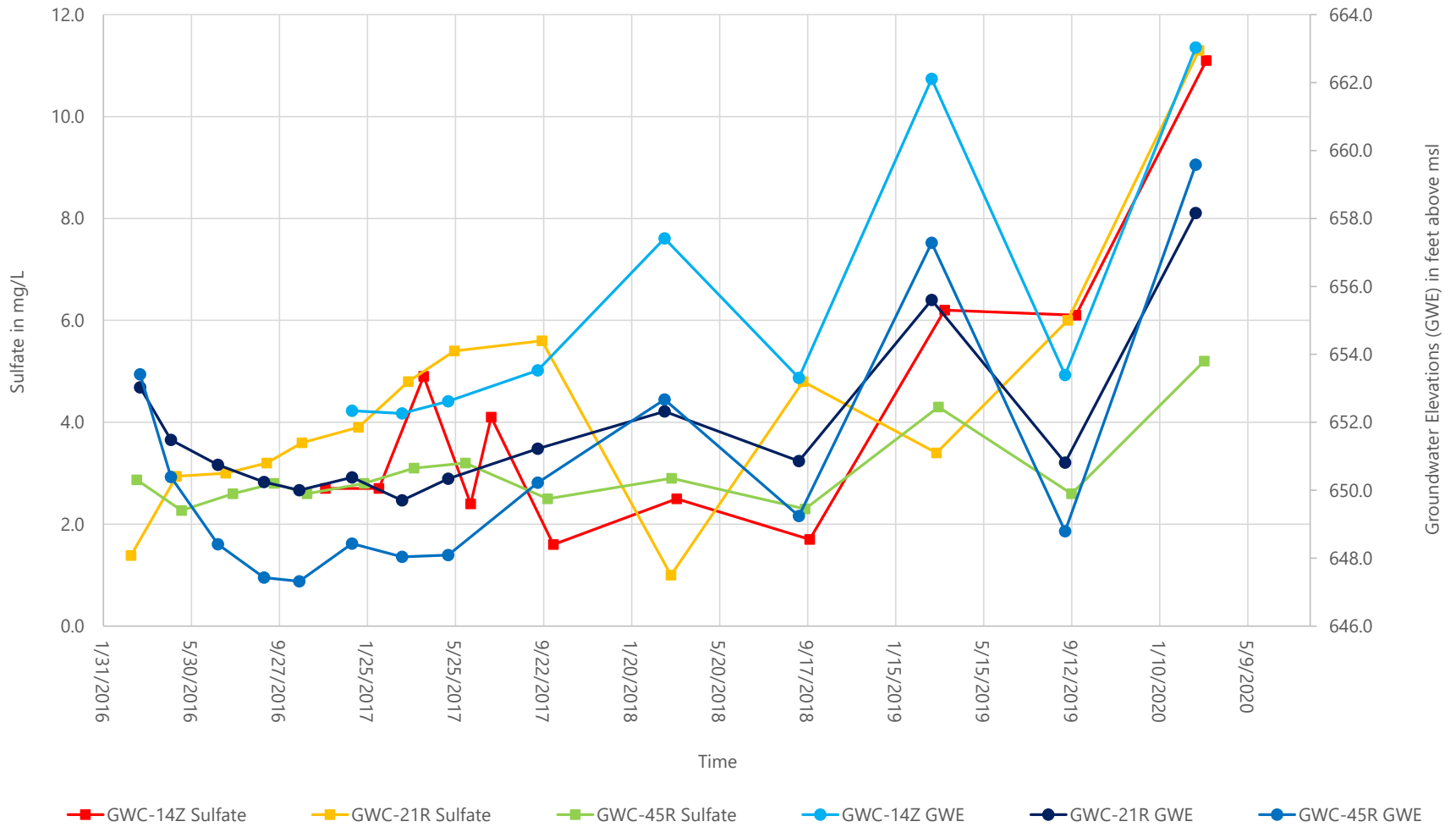


Figure 15: TDS in Wells GWC-45, GWC-45R, and GWC-48 Compared to Upgradient Wells

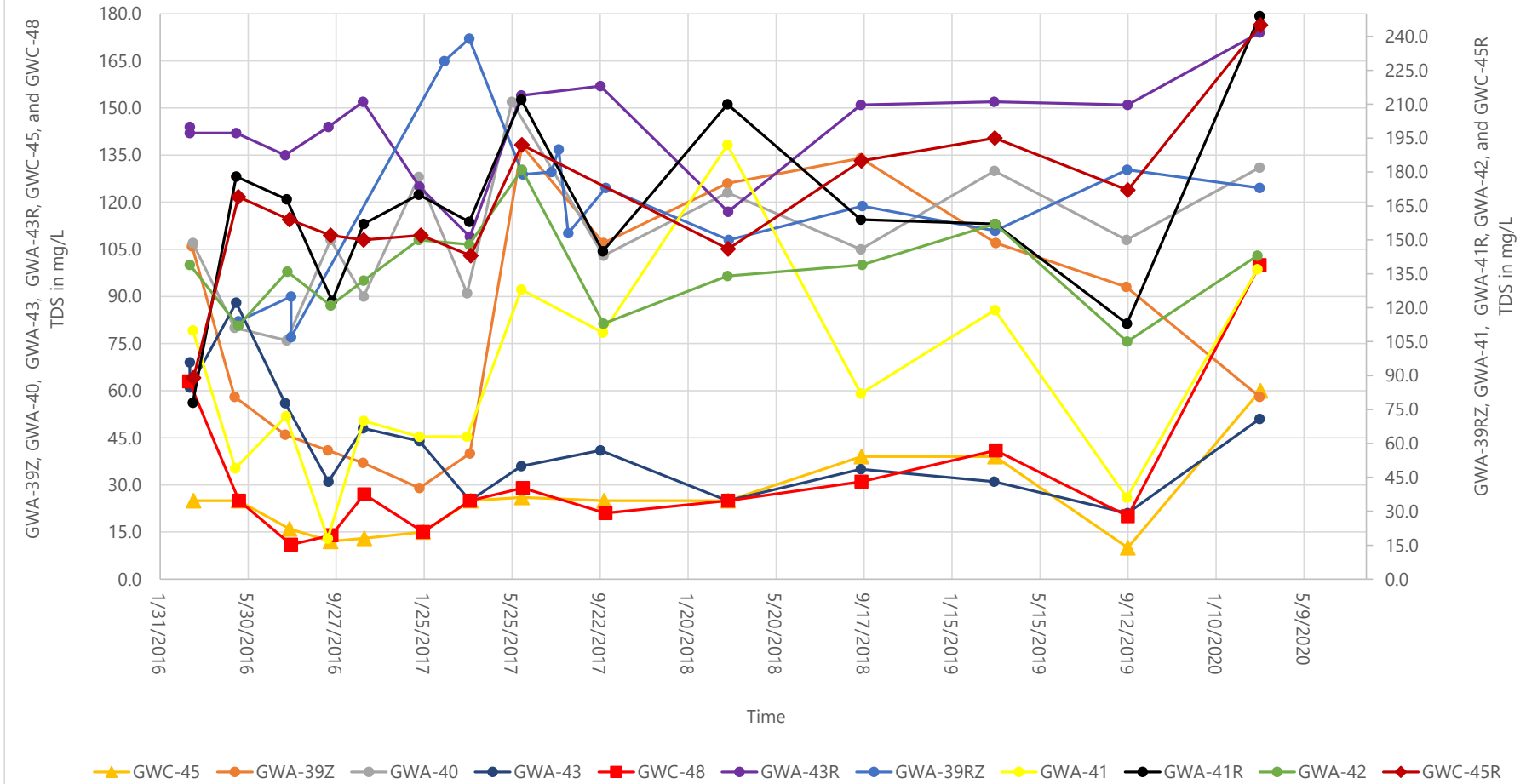
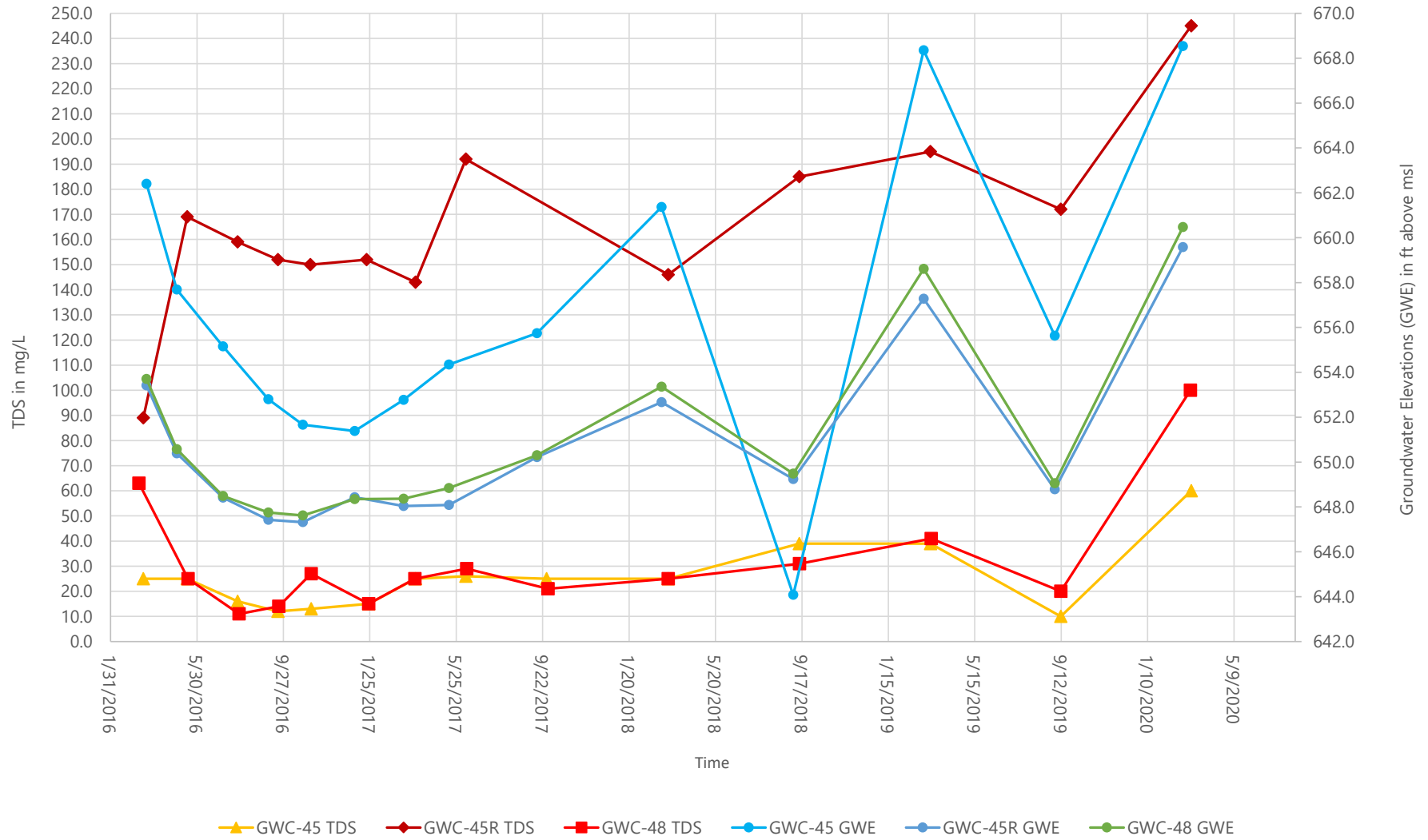


Figure 16: TDS and Groundwater Elevations



APPENDIX A

USGS REGIONAL DATA

Organization Identifier	Organization Formal Name	Monitoring Location Identifier	Monitoring Location Name	Monitoring Location Type Name	Monitoring Location Description Text	HUC Eight Digit Code	Drainage Area Measure/ Measure Value
USGS-GA	USGS Georgia Water Science Center	USGS-340842084470701	07HH04	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-340903084470801	07HH01	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-340903084471101	07HH06	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-340935084461201	07HH02	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-340946084424701	08HH01	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-341045084490301	07HH03	Well		3150104	
USGS-GA	USGS Georgia Water Science Center	USGS-341407084562501	06HH01	Well		3150104	

Drainage Area Measure/Measure Unit Code	Contributing Drainage Area Measure/Measure	Contributing Drainage Area Measure/Measure	Latitude Measure	Longitude Measure	Source Map Scale Numeric	Horizontal Accuracy Measure/Measure	Horizontal Accuracy Measure/Measure
			34.1450977	-84.7857712	24000		5 seconds
			34.1495421	-84.7854934	24000		5 seconds
			34.1525975	-84.7896602	24000		5 seconds
			34.1598197	-84.7699373	24000		5 seconds
			34.1628752	-84.7129911	24000		1 minutes
			34.1792634	-84.8174388	24000		5 seconds
			34.2353725	-84.9402207	24000		1 minutes

Horizontal Collection Method Name	Horizontal Coordinate Reference System	Vertical Measure/Measure Value	Vertical Measure/Measure Unit Code	Vertical Accuracy Measure/Measure Value	Vertical Accuracy Measure/Measure Unit Code	Vertical Collection Method Name	Vertical Coordinate Reference System
Interpolated from MAP.	NAD83	688	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	715	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	711	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	730	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	873	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	715	feet	10	feet	Interpolated from topographic map.	NGVD29
Interpolated from MAP.	NAD83	708	feet	10	feet	Interpolated from topographic map.	NGVD29

Country Code	StateCode	County Code	Aquifer Name	Formation Type Text	Aquifer Type Name	ConstructionDate Text	Well Depth Measure/Measure Value
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19580101	115
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19400101	300
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19591028	110
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19440101	140
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19580501	338
US	13	15	Piedmont and Blue Ridge crystalline-rock aquifers	Crystalline Rocks	Confined single aquifer	19030101	510
US	13	15	Valley and Ridge aquifers	Paleozoic Erathem	Confined single aquifer	19400101	350

Well Depth Measure/Measure Unit Code	Well Hole Depth Measure/Measure Value	Well Hole Depth Measure/Measure Unit Code	Provide rName
ft			NWIS
ft	300	ft	NWIS
ft	110	ft	NWIS
ft	140	ft	NWIS
ft			NWIS
ft	510	ft	NWIS
ft			NWIS

CharacteristicName	Result Sample Fraction Text	Result MeasureValue	ResultMeasureUnitCode	MeasureQualifierCode	ResultStat usIdentifier	Statistical BaseCode	ResultValue	ResultWeightBasisText	ResultTemperatureBasisText	ResultPart icleSizeBasisText	PrecisionValue	DataQuality/BiasValue	ConfidenceIntervalValue	UpperConfidenceLimitValue	LowerConfidenceLimitValue	ResultCommentText
True color	Dissolved	5	PCU		Accepted		Actual									
pH	Total	7.4	std units		Accepted		Actual									
Specific conductance	Total	237	uS/cm @25C		Accepted		Actual		25 deg C							
Temperature, water		16	deg C		Accepted		Actual									
Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual									
Hardness, non-carbonate	Total	8	mg/l CaCO3		Accepted		Actual									
Calcium	Dissolved	27	mg/l		Accepted		Actual									
Magnesium	Dissolved	15	mg/l		Accepted		Actual									
Potassium	Dissolved	1.1	mg/l		Accepted		Actual									
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual									
Sodium, percent total cations		6	%		Accepted		Actual									
Sodium	Dissolved	3.5	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	141	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	0.2	tons/ac ft		Accepted		Actual									
Total dissolved solids	Dissolved	147	mg/l		Accepted		Actual		180 deg C							
True color	Dissolved	1	PCU		Accepted		Actual									
pH	Total	7.4	std units		Accepted		Actual									
Specific conductance	Total	301	uS/cm @25C		Accepted		Actual		25 deg C							
Temperature, water		18	deg C		Accepted		Actual									
Hardness, Ca, Mg		180	mg/l CaCO3		Accepted		Actual									
Hardness, non-carbonate	Total	22	mg/l CaCO3		Accepted		Actual									
Calcium	Dissolved	39	mg/l		Accepted		Actual									
Magnesium	Dissolved	20	mg/l		Accepted		Actual									
Potassium	Dissolved	0.7	mg/l		Accepted		Actual									
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual									
Sodium, percent total cations		4	%		Accepted		Actual									
Sodium	Dissolved	3.8	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	189	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	0.25	tons/ac ft		Accepted		Actual									
Total dissolved solids	Dissolved	182	mg/l		Accepted		Actual		180 deg C							
True color	Dissolved	3	PCU		Accepted		Actual									
pH	Total	8	std units		Accepted		Actual									
Specific conductance	Total	244	uS/cm @25C		Accepted		Actual		25 deg C							
Hardness, Ca, Mg		110	mg/l CaCO3		Accepted		Actual									
Hardness, non-carbonate	Total	10	mg/l CaCO3		Accepted		Actual									
Calcium	Dissolved	26	mg/l		Accepted		Actual									
Magnesium	Dissolved	12	mg/l		Accepted		Actual									
Potassium	Dissolved	0.7	mg/l		Accepted		Actual									
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.3	None		Accepted		Actual									
Sodium, percent total cations		11	%		Accepted		Actual									
Sodium	Dissolved	6.6	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	140	mg/l		Accepted		Actual									
Total dissolved solids	Dissolved	0.2	tons/ac ft		Accepted		Actual									
Total dissolved solids	Dissolved	146	mg/l		Accepted		Actual		180 deg C							
True color	Dissolved	0	PCU		Accepted		Actual									
pH	Total	8.2	std units		Accepted		Actual									
Specific conductance	Total	370	uS/cm @25C		Accepted		Actual		25 deg C							
Hardness, Ca, Mg		170	mg/l CaCO3		Accepted		Actual									
Hardness, non-carbonate	Total	24	mg/l CaCO3		Accepted		Actual									
Calcium	Dissolved	58	mg/l		Accepted		Actual									
Magnesium	Dissolved	5.6	mg/l		Accepted		Actual									

USGSPCode	ResultDepthHeightMeasure/MeasureValue	ResultDepthHeightMeasure/MeasureUnitCode	ResultDepthAltitudeReferencePointText	ResultSamplingPointName	BiologicalIntentName	BiologicalIndividualIdentifier	SubjectTaxonomicName	UnidentifiedSpeciesIdentifier	SampleTissueAnatomyName	GroupSummaryCount/MeasureValue	GroupSummaryCount/MeasureUnitCode	CellFormName	CellShapeName	HabitName	VoltismName	TaxonomicPollutionTolerance	TaxonomicPollutionScaleText	TrophicLevelName	FunctionalFeedingGroupName	TaxonomicDetailsCitation/ResourceTitleName	TaxonomicDetailsCitation/ResourceCreatorName	TaxonomicDetailsCitation/ResourceSubjectText	
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CharacteristicName	Result Sample Fraction Text	Result MeasureValue	ResultMeasureUnitCode	MeasureQualifierCode	ResultStat usIdentifie r	Statistical BaseCode	ResultValu eTypeNa me	ResultWei ghtBasisT ext	ResultTim eBasisText	ResultTem peratureB asisText	ResultPart icleSizeBa sisText	PrecisionV alue	DataQuali ty/BiasVal ue	Confidenc eIntervalV alue	UpperCon fidenceLi mitValue	LowerCon fidenceLi mitValue	ResultCo mmentTe xt
Potassium	Dissolved	0.7	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.4	None		Accepted		Actual										
Sodium, percent total cations		12	%		Accepted		Actual										
Sodium	Dissolved	11	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	230	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.33	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	240	mg/l		Accepted		Actual		180 deg C								
True color	Dissolved	0	PCU		Accepted		Actual										
pH	Total	6.5	std units		Accepted		Actual										
Specific conductance	Total	244	uS/cm @25C		Accepted		Actual		25 deg C								
Temperature, water		17	deg C		Accepted		Actual										
Hardness, Ca, Mg		140	mg/l CaCO3		Accepted		Actual										
Hardness, non-carbonate	Total	13	mg/l CaCO3		Accepted		Actual										
Calcium	Dissolved	29	mg/l		Accepted		Actual										
Magnesium	Dissolved	16	mg/l		Accepted		Actual										
Potassium	Dissolved	1	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.2	None		Accepted		Actual										
Sodium, percent total cations		6	%		Accepted		Actual										
Sodium	Dissolved	4.2	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	152	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.19	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	136	mg/l		Accepted		Actual		180 deg C								
Temperature, water		20.5	deg C		Accepted		Actual										
Total dissolved solids	Dissolved	0.16	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	116	mg/l		Accepted		Actual		180 deg C								
pH	Total	6.4	std units		Accepted		Actual										
Specific conductance	Total	211	uS/cm @25C		Accepted		Actual		25 deg C								
Temperature, water		16.5	deg C		Accepted		Actual										
Total dissolved solids	Dissolved	0.17	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	126	mg/l		Accepted		Actual		180 deg C								
True color	Dissolved	3	PCU		Accepted		Actual										
pH	Total	6.4	std units		Accepted		Actual										
Specific conductance	Total	66	uS/cm @25C		Accepted		Actual		25 deg C								
Hardness, Ca, Mg		22	mg/l CaCO3		Accepted		Actual										
Hardness, non-carbonate	Total	0	mg/l CaCO3		Accepted		Actual										
Calcium	Dissolved	6.8	mg/l		Accepted		Actual										
Magnesium	Dissolved	1.2	mg/l		Accepted		Actual										
Potassium	Dissolved	2.4	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.3	None		Accepted		Actual										
Sodium, percent total cations		22	%		Accepted		Actual										
Sodium	Dissolved	3.3	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	60	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.09	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	65	mg/l		Accepted		Actual		180 deg C								
True color	Dissolved	5	PCU		Accepted		Actual										
pH	Total	7.7	std units		Accepted		Actual										
Specific conductance	Total	254	uS/cm @25C		Accepted		Actual		25 deg C								
Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual										
Hardness, non-carbonate	Total	12	mg/l CaCO3		Accepted		Actual										
Calcium	Dissolved	27	mg/l		Accepted		Actual										
Magnesium	Dissolved	16	mg/l		Accepted		Actual										

USGSPCode	ResultDepthHeightMeasure/MeasureValue	ResultDepthHeightMeasure/MeasureUnitCode	ResultDepthAltitudeReferencePointText	ResultSamplingPointName	BiologicalIntentName	BiologicalIndividualIdentifier	SubjectTaxonomicName	UnidentifiedSpeciesIdentifier	SampleTissueAnatomyName	GroupSummaryCountWeight/MeasureValue	GroupSummaryCountWeight/MeasureUnitCode	CellFormName	CellShapeName	HabitName	VoltismName	TaxonomicPollutionTolerance	TaxonomicPollutionToleranceScaleText	TrophicLevelName	FunctionalFeedingGroupName	TaxonomicDetailsCitation/ResourceTitleName	TaxonomicDetailsCitation/ResourceCreatorName	TaxonomicDetailsCitation/ResourceSubjectText		
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CharacteristicName	Result Sample Fraction Text	Result MeasureValue	ResultMeasure/MeasureUnitCode	MeasureQualifierCode	ResultStat usIdentifie r	Statistical BaseCode	ResultValu eTypeNa me	ResultWei ghtBasisT ext	ResultTim eBasisText	ResultTem peratureB asisText	ResultPart icleSizeBa sisText	PrecisionV alue	DataQuali ty/BiasVal ue	Confidenc eIntervalV alue	UpperCon fidenceLi mitValue	LowerCon fidenceLi mitValue	ResultCo mmentTe xt
Potassium	Dissolved	0.7	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual										
Sodium, percent total cations		4	%		Accepted		Actual										
Sodium	Dissolved	2.9	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	143	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.21	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	153	mg/l		Accepted		Actual			180 deg C							
Specific conductance	Total	222	uS/cm @25C		Accepted		Actual			25 deg C							
True color	Dissolved	3	PCU		Accepted		Actual										
pH	Total	7.4	std units		Accepted		Actual										
Specific conductance	Total	255	uS/cm @25C		Accepted		Actual			25 deg C							
Temperature, water		17.5	deg C		Accepted		Actual										
Hardness, Ca, Mg		140	mg/l CaCO3		Accepted		Actual										
Hardness, non-carbonate	Total	17	mg/l CaCO3		Accepted		Actual										
Calcium	Dissolved	30	mg/l		Accepted		Actual										
Magnesium	Dissolved	16	mg/l		Accepted		Actual										
Potassium	Dissolved	1	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0.1	None		Accepted		Actual										
Sodium, percent total cations		5	%		Accepted		Actual										
Sodium	Dissolved	3.5	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	150	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.22	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	162	mg/l		Accepted		Actual			180 deg C							
Specific conductance	Total	70	uS/cm @25C		Accepted		Actual			25 deg C							
Temperature, water		20.5	deg C		Accepted		Actual										
Total dissolved solids	Dissolved	0.17	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	128	mg/l		Accepted		Actual			180 deg C							
True color	Dissolved	1	PCU		Accepted		Actual										
pH	Total	7.3	std units		Accepted		Actual										
Specific conductance	Total	224	uS/cm @25C		Accepted		Actual			25 deg C							
Temperature, water		16.5	deg C		Accepted		Actual										
Hardness, Ca, Mg		130	mg/l CaCO3		Accepted		Actual										
Hardness, non-carbonate	Total	2	mg/l CaCO3		Accepted		Actual										
Calcium	Dissolved	27	mg/l		Accepted		Actual										
Magnesium	Dissolved	15	mg/l		Accepted		Actual										
Potassium	Dissolved	1.3	mg/l		Accepted		Actual										
Sodium adsorption ratio [(Na)/(sq root of 1/2 Ca + Mg)]		0	None		Accepted		Actual										
Sodium, percent total cations		1	%		Accepted		Actual										
Sodium	Dissolved	0.8	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	137	mg/l		Accepted		Actual										
Total dissolved solids	Dissolved	0.18	tons/ac ft		Accepted		Actual										
Total dissolved solids	Dissolved	129	mg/l		Accepted		Actual			180 deg C							

USGSPCode	ResultDepthHeightMeasure/MeasureValue	ResultDepthHeightMeasure/MeasureUnitCode	ResultDepthAltitudeReferencePointText	ResultSamplingPointName	BiologicalIntentName	BiologicalIndividualIdentifier	SubjectTaxonomicName	UnidentifiedSpeciesIdentifier	SampleTissueAnatomyName	GroupSummaryCountWeight/MeasureValue	GroupSummaryCountWeight/MeasureUnitCode	CellFormName	CellShapeName	HabitName	VoltismName	TaxonomicPollutionTolerance	TaxonomicPollutionToleranceScaleText	TrophicLevelName	FunctionalFeedingGroupName	TaxonomicDetailsCitation/ResourceTitleName	TaxonomicDetailsCitation/ResourceCreatorName	TaxonomicDetailsCitation/ResourceSubjectText		
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Organization Identifier	Organization Formal Name	Activity Identifier	Activity Start Date	Activity Start Time/Time Zone Code	Activity Start Time/Time Zone Code	Monitoring Location Identifier	Result Identifier	Data Logger Line	Result Detection Condition Text	Method Specification Name	Characteristic Name
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420937				True color
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420939				pH
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420940				Specific conductance
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420941				Hardness, Ca, Mg
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420942				Hardness, non-carbonate
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420943				Calcium
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420944				Magnesium
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420945				Potassium
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420946				Sodium adsorption ratio $[(Na)/(sq\ root\ of\ 1/2\ Ca + Mg)]$
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420947				Sodium, percent total cations
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420948				Sodium
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420956				Total dissolved solids
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420957				Total dissolved solids
USGS-GA	USGS Georgia Water Science Center	nwisga.01.97101426	4/27/1971	11:10:00	EST	USGS-341407084562501	NWIS-85420958				Total dissolved solids

ResultSampleFractionText	ResultMeasureValue	ResultMeasure/MeasureUnitCode	MeasureQualifierCode	ResultStatusIdentifier	StatisticalBaseCode	ResultValueTypeName	ResultWeightBasisText	ResultTimeBasisText	ResultTemperatureBasisText	ResultParticleSizeBasisText	PrecisionValue	DataQuality/BiasValue	ConfidenceIntervalValue	UpperConfidenceLimitValue	LowerConfidenceLimitValue	ResultCommentText	USGSPCode	ResultDepthHeightMeasureValue
Dissolved	0	PCU		Accepted		Actual											80	
Total	8.2	std units		Accepted		Actual											400	
Total	370	uS/cm @25C		Accepted		Actual			25 deg C								95	
	170	mg/l CaCO3		Accepted		Actual											900	
Total	24	mg/l CaCO3		Accepted		Actual											902	
Dissolved	58	mg/l		Accepted		Actual											915	
Dissolved	5.6	mg/l		Accepted		Actual											925	
Dissolved	0.7	mg/l		Accepted		Actual											935	
	0.4	None		Accepted		Actual											931	
	12	%		Accepted		Actual											932	
Dissolved	11	mg/l		Accepted		Actual											930	
Dissolved	230	mg/l		Accepted		Actual											70301	
Dissolved	0.33	tons/ac ft		Accepted		Actual											70303	
Dissolved	240	mg/l		Accepted		Actual			180 deg C								70300	