

2021 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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Prepared by: Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

Project No.: 6122-16-0287

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

**2021 SEMI-ANNUAL
GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT**

CERTIFICATION STATEMENT

This 2021 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.



Rhonda N. Quinn, P.G.
Senior Geologist
Georgia Registered Professional
Geologist No. 1031



Gregory J. Wrenn, P.E.
Associate Engineer
Georgia Registered
Professional Engineer No.
025565



SUMMARY

This summary of the 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program through June 2021 at Georgia Power Company's (Georgia Power's) Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 (the Site). This summary was prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).



Plant Bowen Landfill Cells

Plant Bowen solid waste disposal (landfill cells) facility is located in Bartow County off State Highway 113, approximately 7 miles west-southwest of Cartersville and 20 miles southeast of Rome. The disposal facility receives coal combustion by-products, coal ash and gypsum, from coal power generating processes at the plant. The landfill cells are lined in accordance with Solid Waste Permit No. 008-018D (LI). 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 and are only used to store non-marketable gypsum. The Site is located on the northeastern portion of the Plant Bowen property.

The groundwater monitoring program for the landfill is managed in accordance with the landfill's Solid Waste Permit No. 008-018D (LI), as issued by the Georgia Environmental Protection Division (GA EPD), and in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4.14. The landfill is also subject to the USEPA CCR rule and the GA EPD Rules for Solid Waste Management 391-3-4-10. A well network around each of the active disposal cells monitors the groundwater conditions at the Site.

The current monitoring well network at Cells 1 & 2 consists of 29 wells (9 upgradient and 20 downgradient wells). The current monitoring well network at Cells 3 & 4 consists of 23 monitoring wells (12 upgradient wells and 11 downgradient wells). The current monitoring network at Cells 9 & 10 consists of 17 monitoring wells (8 upgradient wells and 9 downgradient wells). The wells meet federal and state monitoring requirements.

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

Groundwater monitoring, in accordance with the permit-issued Design and Operations (D&O) Plan, began in 2007, prior to disposal activities, and continues to date. Routine sampling and reporting for CCR Appendix III parameters began after the background groundwater conditions were established between February 2016 and August 2017.

During the 2021 semi-annual reporting period, the semi-annual groundwater monitoring event was conducted in February and March 2021. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis of Appendix III parameters² and 16 Solid Waste Permit metals³ required by the Georgia Solid Waste Permit (No. 008-018D (LI)). Per the CCR rule, groundwater results for February-March 2021 data were evaluated in accordance with the certified statistical methods. Monitoring wells GWC-11R, GWC-46R, and GWC-48 were resampled in May 2021 to verify the initial results. The May 2021 resampling results verified the initial February-March 2021 statistically significant increases (SSIs) in wells GWC-46R (chromium) and GWC-48 (barium and sulfate) and did not verify the initial SSI in GWC-11R (antimony). Verified Appendix III² SSIs are provided in the table below.

Appendix III Parameter	February-March 2021
Calcium	GWC-16R, GWC-17R, GWC-21R, GWC-23R, GWC-45R
Chloride	GWC-13RZ, GWC-14Z
pH	GWC-8RR, GWC-9, GWC-44, GWC-45, GWC-48, GWC-49R, GWC-49Z
Sulfate	GWC-48

Two Alternate Source Demonstrations (ASDs) address the exceedances previously identified.

- April 19, 2018
 Calcium: GWC-16R, GWC-17R, GWC-21R, and GWC-23R
 Chloride: GWC-13RZ
 pH: GWC-8RR, GWC-44, GWC-45, GWC-48, and GWC-49Z
- August 31, 2020
 Calcium: GWC-45R
 Chloride: GWC-14Z
 pH: GWC-9 and GWC-49R

Georgia Power will prepare an ASD for SSI (Sulfate in GWC-48) identified in the February-March 2021 semi-annual sampling event and verified in May 2021. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GA EPD semi-annually.

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

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LIST OF ACROYMNS

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
cm/ft	centimeters per feet
D&O	Design and Operations
ft	feet
ft bgs	feet below ground surface
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
GWPS	Groundwater Protection Standards
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
O&M	Operations and Maintenance
PE	Professional Engineer
PG	Professional Geologist
PL	Prediction Limit
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
su	standard unit (unit for pH values)
US EPA	United States Environmental Protection Agency

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 (GA EPD) Rules of Solid Waste Management 391-3-4-.10, this *2021 Semi-Annual Groundwater Monitoring & Corrective Action Report* has been prepared to document groundwater monitoring activities conducted from January through June 2021 at Georgia Power Company's (Georgia Power'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, dated November 20, 2018, was submitted for the facility to replace the Solid Waste Permit. The application is being revised and will be submitted to GA EPD.

This report provides the results from the semi-annual sampling event conducted in February-March 2021 and the resampling event in May 2021 at Cells 1 & 2, Cells 3 & 4, and Cells 9 & 10. This sampling event included the scheduled semi-annual sampling for GA EPD's Solid Waste Permit constituents and the USEPA's CCR Appendix III constituents. The May 2021 resampling event included the sampling of GWC-11R for antimony, GWC-46R for chromium, and GWC-48 for barium and sulfate to verify the initial statistically significant increases (SSIs) identified in the February-March 2021 semi-annual event. This report satisfies the reporting requirements of applicable GA 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

Georgia Power'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**. 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 February-March 2021 and a verification resampling event conducted in May 2021. The Site 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.

As described in the Hydrogeologic Report and Groundwater Monitoring Plan (SCS 2006), 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 top of the karst features is usually identified as having a thin zone of weathered carbonate bedrock.

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. **Table 1: Summary of Monitoring Well Construction** provides 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 16 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 seven wells in the upper bedrock. This well network currently consists of 8 upgradient wells and 9 downgradient wells.

Groundwater samples from monitoring wells in the detection monitoring system are collected from each monitoring well and analyzed for:

- Appendix III constituents according to § 257.94(a); and
- A state-modified Appendix I list of detection parameters according to GA EPD Rules for Solid Waste Management 391-3-4-.14 and the approved D&O plan. The state-modified analyte list includes antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury nickel, selenium, silver, thallium, vanadium, and zinc.
- Field parameters that are to be recorded during sampling include: pH, temperature, turbidity, dissolved oxygen, specific conductance, and oxidation-reduction potential.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed during the February-March 2021 semi-annual event and discusses the status of the monitoring program. In February-March 2021, samples were collected from each well in the certified monitoring system shown on **Figure 2**. Monitoring wells GWC-11R, GWC-46R, and GWC-48 were resampled on May 26, 2021 for select constituents to verify SSIs. **Table 2: Groundwater Sampling Event Summary**, presents a summary of the two 2021 groundwater sampling events completed at Plant Bowen’s Landfill Cells 1 & 2, 3 & 4, and 9 & 10.

2.1 Monitoring Well Installation and Maintenance

The following modifications were made to the groundwater monitoring system from January to June 2021 included:

- Georgia Power installed an upgradient overburden monitoring well, GWA-3A, on February 17-18, 2021 to replace well GWA-3 at Landfill Cells 1 & 2. Upgradient overburden monitoring well GWA-3 was abandoned on February 19, 2021 because the casing had deteriorated causing elevated pH values. The Well Installation Report for GWA-3A and documentation of well abandonment was submitted May 20, 2021 and is provided in **Appendix A: Well Installation Report**.
- The landfill well network, including GWA-3A, was surveyed by Donald and Garrett Associates, Inc. in March 2021. The top of the PVC well casing [top of casing (TOC) elevation], ground surface, and the survey pin installed at each well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. The updated elevations and location coordinates are summarized on **Table 1** and the survey data are provided in **Appendix A**. The new survey data are incorporated into this report’s applicable tables and figures.
- Georgia Power installed an upgradient bedrock monitoring well, GWA-36RA, on July 2, 2021 to replace well GWA-36R at Landfill Cells 3&4. GWA-36R was abandoned on July 1, 2021 due to persistent high turbidity during the September 2020 and March 2021 detection monitoring events. The Well Installation Report for GWA-36RA and documentation of well abandonment is provided in **Appendix A**. GWA-36RA will be sampled during the next semi-annual monitoring event.

Other monitoring well-related activities included visual inspection of well conditions prior to sampling using GA EPD-based inspection criteria, 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 B: Laboratory Analytical Data and Field Sampling Reports**. The inspections indicated the wells were in good condition with a few minor

maintenance items needed such as two water level wells need vent holes, a bollard needs repair and lady bugs need to be removed from a few well caps. Repairs to address the inspection findings will be completed before the next semi-annual event.

2.2 Detection Monitoring Program

In accordance with § 257.94(b), the detection groundwater monitoring program continued during first 2021 semi-annual event. Groundwater samples are 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). In addition to sampling and analyzing the Appendix III parameters, the 16 Solid Waste Permit metals (Section 1.3) were also sampled and analyzed concurrent with the 2021 semi-annual CCR detection monitoring event as required by the Georgia Solid Waste Permit (No. 008-018D (LI)). Data reports for the 2021 detection monitoring event are included in **Appendix B: Laboratory Analytical Data and Field Sampling Reports**. Statistical results of this event are discussed in Section 4. The May 2021 resampling verified the initial exceedances of chromium in GWC-46R and barium and sulfate in GWC-48. The initial exceedance of antimony in GWC-11R was not verified.

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 2021 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 February-March 2021 monitoring event are summarized in **Table 3: Summary of Groundwater Elevations**. Groundwater elevations vary between landfill cells due to topographic variations and anisotropic conditions in the overburden-bedrock aquifer. 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. The potentiometric surface in February 2021 was comparable to historical trends observed at the Site.

Groundwater levels measured on February 23, 2021 were used to develop potentiometric surface elevation contour maps provided as **Figure 3: Potentiometric Surface – Overburden Wells February 2021** and **Figure 4: Potentiometric Surface – Bedrock Wells February 2021**. A few wells did not reflect the uppermost aquifer potentiometric surface and were not used in the preparation of the potentiometric maps. Wells that were dry at the time of measurement are indicated on **Table 3**. The groundwater flow patterns observed during the February 2021 water level measurement event were consistent with historic observations. The general direction of groundwater flow in the overburden of Landfill Cells 1 & 2 and 9 & 10 area is to the north-northeast (**Figure 3**). Groundwater flow in the overburden in the Landfill Cells 3 & 4 was to the west-northwest. 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 (**Figure 4**). Groundwater flow in the bedrock in the Landfill Cells 3 & 4 area is to the west-northwest.

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 4: Groundwater Flow Velocity Calculations**.

Estimated linear groundwater flow velocities presented in **Table 4** are similar to historical data from the Site. Estimated linear groundwater flow velocities for February 2021 water level measurement event range from approximately 0.02 to 0.13 feet per day in the overburden aquifer and from approximately 0.02 to 0.34 feet per day in the bedrock aquifer (**Table 4**). 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 4**) also suggest an abundance of residual clays in the thin zone where the carbonate bedrock is weathered above the karst features at the Site.

3.3 Continuous Water Level Monitoring (Hydrogeologic Monitoring)

Georgia Power 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 as of May 2021 currently equipped with transducers for monitoring water levels. In August 2020, the transducer in well GWA-3 was removed after it ceased working. In May 2021, a new transducer was installed in new well GWA-3A and began collecting water level data. 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, Georgia Power 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 December 5, 2020 and June 3, 2021 are provided in this 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 December 5, 2020 to June 3, 2021 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 $\pm 3\%$
- Dissolved Oxygen (DO) ± 10 percent for DO or DO > 0.2 mg/L. If DO < 0.2 mg/L no stabilization criteria apply
- Turbidity measurements less than 5 NTUs, or between 5 and 10 NTUs after 3 hours of purging.

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 as shown on **Figure 2** is checked for water during each groundwater sampling event. Water was not present in the spring during the February-March 2021 event and, therefore, was not sampled.

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 B**.

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 B**.

3.6 Groundwater Analytical Results

3.6.1 CCR Constituents

Tables 5, 6, and 7: Analytical Data Summary Appendix III (February-March 2021) Landfill Cells 1 & 2, 3 & 4, and 9 & 10 summarize the analytical data for the seven Appendix III parameters for the February-March 2021 sampling event. The complete laboratory and field data sheets are included in **Appendix B**. Time Series data for the Appendix III parameters are provided in **Appendix D: Statistical Results**.

3.6.2 Solid Waste Permit Metals

Tables 8, 9, and 10: Analytical Data Summary Solid Waste Permit Metals (February-March 2021) Landfill Cells 1 & 2, 3 & 4, and 9 & 10, respectively, summarize the analytical data for 16 Solid Waste Permit metals for the February-March 2021 sampling event. 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, none of which were above regulatory limits. The complete laboratory and field sampling reports are included in **Appendix B**. Time Series data for the Solid Waste Permit metals are provided in **Appendix D**.

3.7 Quality Assurance & Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected. Equipment blanks (where non-dedicated sampling equipment is used) are collected at a rate of one QA/QC sample per 10 groundwater assessment samples. Duplicated samples were collected during the sampling event at a rate of one QA/QC sample per 20 groundwater assessment samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 20 groundwater assessment samples. 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 February-March and May 2021 data using laboratory

precision and accuracy, analytical method requirements and requirements in the field sampling plan. The February-March 2021 constituent concentrations were generally within the historical range of concentrations. The data quality evaluations are included in **Appendix B**.

The analytical results provided in **Tables 5 to 10** 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. The relative percent differences for the parent and duplicate sample data were generally less than 20%, indicating good sampling precision for the event. The data are considered usable for meeting project objectives and the results are considered valid.

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, GA EPD requested the historic data for the 16 Solid Waste Permit metals be screened to evaluate if interwell or intrawell statistical methods were appropriate. 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, Georgia Power submitted a minor permit modification to EPD changing the statistical method for the Solid Waste Permit metals from interwell to intrawell. On February 26, 2021, Georgia Power submitted a minor modification to implement a two-step statistical approach for the detection monitoring program to address initial SSIs over background for constituents currently using intrawell statistical approach. The two-step analysis is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" [USEPA Unified Guidance (2009), Chapter 7, Section 7.5]. Groundwater Stats Consulting conducted the statistical analyses of the February-March 2021 groundwater data. The statistical analyses are provided in **Appendix D: Statistical Results**.

4.1 Statistical Method

Descriptions of the statistical analyses of groundwater quality data obtained in February-March 2021 and May 2021 are in **Appendix D**. The analyses were conducted in accordance with *Unified Guidance Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities*. (USEPA, 2009) and the statistical analysis plans. **Table 11: Statistical Method Summary** provides a summary of the statistical methodology used at Cells 1 & 2, 3 & 4, and 9 & 10 for the February-March 2021 and May 2021 events.

The intrawell method was used to analyze the 16 Solid Waste Permit metals data at the Site during the February-March 2021 and May 2021 events. 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

Statistical analysis of the February-March 2021 monitoring event included a two-step analysis for constituents currently using intrawell statistical approach. Intrawell statistical methods are a conservative first step that may be overly sensitive to natural variation, particularly for nonparametric limits with small background sample sizes. Therefore, for instances where an apparent SSI is identified by intrawell statistical methods, interwell statistical methods may be used as a reasonable second step to determine if the initial exceedance is below sitewide background limit. If the concentrations exceeded both the intrawell and interwell prediction limits, the concentration was identified as an SSI. If the SSI is not confirmed by the two-step analysis, then detection monitoring should continue in these instances.

Data from the February-March 2021 monitoring event were compared to the background statistical limit using either intrawell or interwell prediction limits to evaluate whether concentrations exceed background statistical limits. If data from a sampling event initially exceed the prediction limit (PL), the initial exceedance is verified, and an SSI is identified. The resampling strategy may be used to verify the result. For Cells 1 & 2, 3 & 4, and 9 & 10, the interwell statistical method uses a 1-of-2 verification resample plan and intrawell statistical method uses a 1-of-3 or 1-of-2 verification resample plan. When an initial SSI or questionable result occurs, a second or third sample may be collected to verify the initial result or determine if the result was an outlier. 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. Monitoring wells GWC-11R (antimony), GWC-46R (chromium), and GWC-48 (barium and sulfate) were resampled on May 26, 2021 for select constituents to verify SSIs for these constituents. 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. Summary tables of the statistical analyses accompany the prediction limits in **Appendix D**.

Time series plots (**Appendix D**) 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.

4.2 Statistical Analyses Results

Based on the statistical results presented in **Appendix D**, the following summarizes verified statistical exceedances identified for Appendix III CCR constituents during the February-March 2021 event. The March 2021 antimony concentration of 0.012 mg/L in downgradient well GWC-11R was a statistical exceedance; however, a May 26, 2021 resampling result (0.0037 mg/L) shows the exceedance was not verified and is not identified as an SSI. The statistical exceedance of chromium (0.0059 mg/L) in downgradient well GWC-46R in March 2021 was verified by the May 26, 2021 resampling result (0.0052 mg/L). The statistical exceedances of barium (0.038 mg/L) and sulfate (15.4 mg/L) in downgradient well GWC-48 in March 2021 was verified by the May 26, 2021 resampling results (barium 0.039 mg/L and sulfate 20.2 mg/L). The barium and chromium concentrations are below groundwater protection standards (GWPS) (for barium and chromium the GWPS is the MCL) and are not identified as statistically significant levels (SSLs). Barium, chromium, and sulfate are identified as SSIs because of exceedances of prediction limits.

TABLE 12
STATISTICAL ANALYSIS SUMMARY – CCR CONSTITUENTS
February-March 2021
Plant Bowen
Landfill Cells 1 & 2, 3 & 4, and 9 & 10
Bartow County, Georgia

Appendix III Parameter	<u>Wells with Concentrations Above Prediction Limits</u>
Cells 1 & 2	
Chloride	GWC-13RZ and GWC-14Z
pH	GWC-8RR and GWC-9
Cells 3 & 4	
Calcium	GWC-16R, GWC-17R, GWC-21R, GWC-23R
Cells 9 & 10	
Calcium	GWC-45R
pH	GWC-44, GWC-45, GWC-48, GWC-49R, GWC-49Z
Sulfate	GWC-48

Based on the statistical results presented in **Appendix D**, the following summarizes statistical exceedances identified for the Solid Waste Permit metals during the February-March 2021 monitoring event.

TABLE 13
STATISTICAL ANALYSIS SUMMARY – SOLID WASTE PERMIT METALS
February-March 2021
Plant Bowen
Landfill Cells 1 & 2, 3 & 4, and 9 & 10
Bartow County, Georgia

<u>Solid Waste Permit Metals</u>	<u>Wells with Concentrations Above Prediction Limits</u>
Cells 1 & 2	
Barium	GWC-13RZ statistically significant increasing trend
Cells 3 & 4	
None	No SSI identified for Solid Waste Permit Metals
Cells 9 & 10	
Barium	GWC-48
Chromium	GWC-46R
Zinc	GWC-47 and GWC-47R

5.0 EXCEEDANCES ADDRESSED BY ALTERNATE SOURCE DEMONSTRATIONS

Constituents with exceedances during the February-March 2021 event that were previously addressed in the August 2017, April 2018, and August 2020 ASDs are summarized in the table below (Amec and Wood, respectively). In a letter dated January 30, 2019, EPD approved the April 2018 ASD for antimony, barium, zinc, pH, calcium, chloride, sulfate, and TDS. GA EPD approval of the August 2020 ASD for barium, zinc, pH, calcium, chloride, sulfate, and TDS is pending. An ASD will be submitted by October 18, 2021 to address the February-March 2021 exceedances (chromium at GWC-46R, barium and sulfate at GWC-48) not previously addressed in the ASDs.

Summary of February-March 2021 Statistical Exceedances Addressed by an ASD

Well	Constituent	Alternate Source Demonstration (Date of ASD)
GWC-16R, GWC-17R, GWC-21R, GWC-23R	Calcium	(April 19, 2018)
GWC-45R	Calcium	(August 31, 2020)
GWC-13RZ	Chloride	(April 19, 2018)
GWC-14Z,	Chloride	(August 31, 2020)
GWC-8RR, GWC-44, GWC-45, GWC-48, GWC-49Z	pH	(April 19, 2018)
GWC-9, GWC-49R	pH	(August 31, 2020)
GWC-48	Sulfate	Alternate Source Demonstration for February-March 2021 Semi-Annual Event
GWC-13RZ	Barium	(April 19, 2018)
GWC-48	Barium	Alternate Source Demonstration for February-March 2021 Semi-Annual Event
GWC-46R	Chromium	Alternate Source Demonstration for February-March 2021 Semi-Annual Event
GWC-47	Zinc	(April 19, 2018)
GWC-47R	Zinc	(August 31, 2020)

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, as described in the earlier ASD documents.

6.0 MONITORING PROGRAM STATUS

The Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 are in detection monitoring. In February-March 2021, statistical exceedances of one Appendix III and two State Solid Waste Permit constituents were verified. Those statistical exceedances will be addressed in an ASD submitted in October 2021 or Georgia Power will initiate assessment monitoring. Groundwater monitoring at Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 will continue in detection monitoring phase.

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2021 Semi-Annual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant Bowen Landfill Cells 1 & 2, 3 & 4, 9 & 10 was prepared to fulfill the requirements of both applicable federal and state CCR Rules and GA EPD Solid Waste Management Rules (§ 257.90(e), 391-3-4-.10, and 391-3-4-.14). In February-March 2021, statistical exceedances of one Appendix III and two State Solid Waste Permit constituents were verified by resampling and not addressed by a previous ASD (chromium at GWC-46R and barium and sulfate at GWC-48). 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. An ASD will be submitted to address the SSIs not previously addressed in the ASDs by October 18, 2021 or Georgia Power will initiate an assessment monitoring program. Pursuant to § 257.94(e) and § 391-3-4.14.23(c), Georgia Power will continue detection monitoring at the Site. The next scheduled groundwater monitoring event is scheduled for August 2021.

8.0 REFERENCES

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec), 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.
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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.

Wood Environment & Infrastructure Solutions, Inc., 2020. Plant Bowen Landfill Cells 1 & 2, 3 & 4, and 9 & 10 Alternate Source Demonstration for March 2020 Semi-Annual Event Cells 1 & 2, 3 & 4, and 9 & 10 (Barium, Zinc, pH, Calcium, Chloride, Sulfate, and TDS various wells), August 31, 2020.

TABLES

**TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION**

**Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia**

Well Name	Installation Date	Northing (ft NAD83) ⁽¹⁾	Easting (ft NAD83) ⁽¹⁾	Ground Surface Elevation (ft, NAVD88) ⁽²⁾	Top of Casing Elevation (ft, NAVD88) ⁽²⁾	Updated Top of Screen Elevation (ft, NAVD88) ⁽³⁾	Updated Bottom of Screen Elevation (ft, NAVD88) ⁽³⁾	Screen Length (ft)	Total Well Depth on Construction Log (ft below land surface)	Total Well Depth on measured in the field February 2021 (ft below top of casing)	Lithology Screened	Hydraulic Location and Purpose ^{(4) (5)}
GWA-1	4/12/2007	1502842.29	2071724.15	738.86	741.76	601.13	591.13	10.0	147.90	151.80	Overburden/Bedrock	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWA-2	4/4/2007	1502640.55	2071935.13	731.48	733.89	590.00	580.00	10.0	151.92	154.25	Overburden/Bedrock	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWA-2R	8/3/2007	1502615.38	2071965.52	732.66	734.83	637.53	627.53	10.0	106.03	107.40	Bedrock	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWA-3	4/11/2007	1502386.74	2072067.26	729.9	732.47	644.9	634.9	10.0	95.4	95.4	Overburden	Cells 1 & 2 - Upgradient ⁽⁴⁾⁽⁶⁾
GWA-3A	3/16/2021	1502374.48	2072061.21	728.68	731.68	601.88	591.88	10.0	137.30	140.27	Overburden	Cells 1 & 2 - Upgradient ⁽⁴⁾⁽⁶⁾
GWA-4	3/14/2007	1502241.02	2072318.24	740.40	743.06	680.91	670.91	10.0	69.64	72.37	Overburden	Cells 1 & 2 - Upgradient ⁽⁵⁾
GWA-4R	3/13/2007	1502246.31	2072317.15	740.65	743.23	657.60	647.60	10.0	93.17	95.79	Bedrock	Cells 1 & 2 - Upgradient ⁽⁵⁾
GWA-4RZ	10/28/2016	1502238.85	2072329.55	740.04	742.84	633.04	623.04	10.0	117.00	120.07	Bedrock	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWA-50	6/4/2008	1502154.80	2072442.13	728.74	731.21	644.71	634.71	10.0	94.33	96.73	Overburden	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWA-50R	6/10/2008	1502150.85	2072448.35	727.87	730.37	599.69	589.69	10.0	138.48	145.53	Bedrock	Cells 1 & 2 - Upgradient ⁽⁴⁾
GWC-5	4/18/2006	1502341.56	2072677.44	735.11	737.56	634.00	624.00	10.0	111.29	113.75	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-6	5/1/2007	1502520.08	2072962.89	725.97	728.64	628.35	618.35	10.0	107.53	111.37	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-6RZ	4/28/2015	1502502.00	2072900.50	728.66	731.91	633.66	623.66	10.0	105.30	112.80	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-7Z	5/19/2016	1502640.13	2073193.22	709.70	713.04	606.00	596.00	10.0	114.00	117.00	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-8Z	4/28/2015	1502827.67	2073526.15	698.68	702.09	635.68	625.68	10.0	73.30	76.40	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-8RR	6/27/2011	1502857.71	2073501.74	698.96	701.92	601.96	591.96	10.0	107.00	111.83	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-9	8/16/2006	1503018.96	2073781.05	691.99	694.67	631.81	621.81	10.0	70.47	77.16	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-10	9/6/2006	1503162.70	2074019.96	684.89	687.87	626.70	616.70	10.0	68.33	71.81	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-10R	5/15/2007	1503154.01	2074020.44	685.33	687.95	599.83	589.83	10.0	95.18	100.20	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-11	6/1/2007	1503390.40	2073829.95	675.04	677.83	643.28	633.28	10.0	41.71	47.35	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-11R	5/31/2007	1503395.25	2073828.03	675.98	677.73	608.08	598.08	10.0	78.85	83.20	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-12	6/4/2007	1503662.54	2073693.63	674.66	677.25	636.56	626.56	10.0	48.41	54.03	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-13	5/31/2007	1503898.17	2073495.16	684.19	686.76	613.75	603.75	10.0	80.43	84.80	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-13R	6/5/2007	1503908.53	2073501.95	683.17	685.97	594.17	584.17	10.0	99.10	104.90	Bedrock	Cells 1 & 2 - Downgradient ⁽⁵⁾
GWC-13RZ	11/2/2016	1503926.70	2073517.44	681.71	684.60	589.71	579.71	10.0	102.00	104.30	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-14	8/22/2007	1504059.92	2073205.96	684.04	686.81	616.30	606.30	10.0	78.01	85.55	Overburden	Cells 1 & 2 - Downgradient ⁽⁵⁾
GWC-14Z	11/3/2016	1504060.77	2073193.66	684.34	687.28	621.34	611.34	10.0	73.00	76.34	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-15	6/1/2007	1503943.59	2072927.52	692.75	695.19	635.74	625.74	10.0	67.11	72.55	Overburden	Cells 1 & 2 - Downgradient ⁽⁵⁾
GWC-15Z	10/31/2016	1503952.26	2072918.71	693.28	695.92	631.28	621.28	10.0	72.00	74.90	Overburden	Cells 1 & 2 - Downgradient ⁽⁴⁾
GWC-15R	5/24/2007	1503936.17	2072919.39	693.39	696.13	611.25	601.25	10.0	92.36	97.50	Bedrock	Cells 1 & 2 - Downgradient ⁽⁴⁾

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**Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia**

Well Name	Installation Date	Northing (ft NAD83) ⁽¹⁾	Easting (ft NAD83) ⁽¹⁾	Ground Surface Elevation (ft, NAVD88) ⁽²⁾	Top of Casing Elevation (ft, NAVD88) ⁽²⁾	Updated Top of Screen Elevation (ft, NAVD88) ⁽³⁾	Updated Bottom of Screen Elevation (ft, NAVD88) ⁽³⁾	Screen Length (ft)	Total Well Depth on Construction Log (ft below land surface)	Total Well Depth on measured in the field February 2021 (ft below top of casing)	Lithology Screened	Hydraulic Location and Purpose ^{(4) (5)}
GWA-36	6/16/2011	1505057.77	2073384.03	681.89	684.50	616.19	606.19	10.0	76.00	81.77	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-36R	6/15/2011	1505051.72	2073384.47	681.41	684.16	605.71	595.71	10.0	86.00	89.56	Bedrock	Cells 3 & 4 - Upgradient ⁽⁴⁾⁽⁷⁾
GWA-36RA	7/2/2021	1505060.13	2073365.45	682.26	684.50	583.26	573.26	10.0	109.40	109.00	Bedrock	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-37	9/11/2013	1505345.45	2073069.32	700.44	703.72	606.24	596.24	10.0	104.50	107.52	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-38	6/13/2011	1505501.33	2072831.77	713.32	716.24	658.62	648.62	10.0	65.00	69.35	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-51RZ	3/1/2016	1505310.36	2073781.34	705.81	708.58	625.11	615.11	10.0	91.00	94.23	Bedrock	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-52	4/21/2015	1505459.85	2073876.00	706.56	709.77	636.06	626.06	10.0	80.80	83.96	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-53	4/10/2015	1505695.52	2074038.90	707.61	710.99	600.11	590.11	10.0	117.80	120.92	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-53R	4/10/2015	1505689.06	2074032.00	708.38	711.58	554.38	543.38	11.0	165.30	168.48	Bedrock	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-54	4/14/2015	1505853.39	2074286.28	701.23	704.23	638.23	628.23	10.0	73.30	76.11	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-55	4/15/2015	1506034.69	2074507.04	693.43	696.72	641.43	631.43	10.0	62.30	65.24	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-55R	4/15/2015	1506041.22	2074517.62	693.28	696.53	600.78	590.78	10.0	102.80	105.70	Bedrock	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-56	4/16/2015	1506128.38	2074633.08	689.14	692.17	616.14	606.14	10.0	83.30	85.87	Overburden	Cells 3 & 4 - Upgradient ⁽⁴⁾
GWA-16R	12/13/2011	1505877.86	2072607.38	727.77	730.59	643.07	633.07	10.0	95.00	98.12	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-17R	12/8/2011	1506069.29	2072829.29	730.02	733.37	650.82	640.82	10.0	89.50	92.93	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-18	6/6/2011	1506306.70	2072929.28	718.92	721.88	651.22	642.22	9.0	77.00	80.31	Overburden	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-18R	6/2/2011	1506301.39	2072929.47	718.97	721.76	591.77	581.77	10.0	137.50	140.10	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-19R	6/7/2011	1506395.96	2073158.36	723.13	726.31	589.43	579.43	10.0	144.00	146.60	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-20R	6/9/2011	1506602.14	2073486.53	717.63	720.59	643.63	633.63	10.0	84.30	87.47	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-21R	12/16/2011	1506695.89	2073784.42	720.45	723.07	641.25	631.25	10.0	89.50	90.59	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-22R	6/14/2011	1506717.93	2074105.65	712.54	715.41	605.84	595.84	10.0	117.00	119.60	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-23R	6/28/2011	1506701.61	2074446.53	688.02	690.94	651.32	641.32	10.0	47.00	49.57	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-24R	6/21/2011	1506694.13	2074806.11	673.76	676.57	647.06	637.06	10.0	37.00	40.11	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾
GWC-25R	6/21/2011	1506494.89	2075088.90	673.59	676.42	586.89	576.89	10.0	97.00	99.97	Bedrock	Cells 3 & 4 - Downgradient ⁽⁴⁾

**TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION**

**Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia**

Well Name	Installation Date	Northing (ft NAD83) ⁽¹⁾	Easting (ft NAD83) ⁽¹⁾	Ground Surface Elevation (ft, NAVD88) ⁽²⁾	Top of Casing Elevation (ft, NAVD88) ⁽²⁾	Updated Top of Screen Elevation (ft, NAVD88) ⁽³⁾	Updated Bottom of Screen Elevation (ft, NAVD88) ⁽³⁾	Screen Length (ft)	Total Well Depth on Construction Log (ft below land surface)	Total Well Depth on measured in the field February 2021 (ft below top of casing)	Lithology Screened	Hydraulic Location and Purpose ^{(4) (5)}
GWA-39Z	3/1/2016	1502655.66	2071120.65	731.80	735.15	628.30	618.30	10.0	113.80	147.4	Overburden	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-39RZ	11/4/2016	1502618.73	2071164.20	729.57	732.62	602.57	592.57	10.0	137.00	117.54	Bedrock	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-40	6/7/2011	1503195.09	2071299.94	728.93	731.77	589.03	579.03	10.0	150.20	155.02	Overburden	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-41	6/6/2011	1503519.02	2071046.18	738.91	742.35	646.41	636.41	10.0	102.54	102.50	Overburden	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-41R	6/1/2011	1503527.39	2071050.84	737.95	743.08	635.19	625.19	10.0	113.06	131.05	Bedrock	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-42	6/1/2011	1503823.34	2071049.95	734.45	738.05	662.69	652.69	10.0	82.06	84.36	Overburden	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-43	5/25/2011	1504129.20	2070982.44	707.61	710.94	627.71	617.71	10.0	90.20	92.53	Overburden	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWA-43R	5/25/2011	1504117.39	2070973.14	707.80	711.19	594.10	584.10	10.0	124.20	114.58	Bedrock	Cells 9 & 10 - Upgradient ⁽⁴⁾
GWC-44	6/9/2011	1504436.66	2071414.30	710.15	712.89	637.22	627.22	10.0	83.23	91.10	Overburden	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-45	5/17/2007	1504539.38	2071956.71	698.41	701.53	643.98	633.98	10.0	64.73	67.55	Overburden	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-45R	5/22/2007	1504538.68	2071945.39	699.00	702.02	583.56	573.56	10.0	125.74	130.12	Bedrock	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-46R	8/15/2014	1504522.23	2072184.47	687.94	690.49	641.84	631.84	10.0	56.50	59.01	Bedrock	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-47	4/23/2014	1504543.69	2072481.34	687.44	690.86	630.44	620.44	10.0	67.33	67.63	Overburden	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-47R	4/24/2014	1504539.25	2072467.10	687.71	691.13	616.91	606.91	10.0	81.20	84.55	Bedrock	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-48	6/8/2011	1504490.63	2072851.71	686.20	688.33	642.70	632.70	10.0	54.00	59.49	Overburden	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-49Z	3/1/2016	1504238.30	2072896.49	706.12	709.11	626.92	616.92	10.0	89.50	95.20	Overburden	Cells 9 & 10 - Downgradient ⁽⁴⁾
GWC-49R	4/17/2014	1504246.02	2072918.76	706.24	709.56	585.54	575.54	10.0	131.10	136.80	Bedrock	Cells 9 & 10 - Downgradient ⁽⁴⁾

Notes:

- (1) ft NAD83 indicates feet referenced to the North American Datum of 1983. Coordinates from March 2021 re-survey of the Landfill wells by Donaldson & Garret Associates, Inc.
- (2) NAVD88 indicates the North American Vertical Datum 1988. Elevations from March 2021 re-survey of the Landfill wells by Donaldson & Garret Associates, Inc.
- (3) Screen elevations calculated using depth below land surface and ground surface elevations from the March 2021 re-survey.
- (4) Monitoring wells are measured for water levels and sampled for groundwater quality.
- (5) Monitoring well measured for water level only.
- (6) GWA-3 was abandoned on 2/19/2021 and was replaced with new well GWA-3A, completed on 3/16/2021 with installation of protective cover and pad.
- (7) GWA-36R was abandoned on 7/1/2021 and was replaced with new well GWA-36RA, completed on 7/2/2021 with installation of protective cover and pad.

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		February 24 -26, March 9 - 19, 26, and 29, 2021	May 26, 2021	
Purpose of Sampling Event		Detection	Verification	
LANDFILL CELLS 1 & 2 MONITORING WELL NETWORK				
GWA-1	Upgradient	X		Detection Monitoring
GWA-2	Upgradient	X		Detection Monitoring
GWA-2R	Upgradient	X		Detection Monitoring
GWA-3A	Upgradient	X		Detection Monitoring
GWA-4RZ	Upgradient	X		Detection Monitoring
GWA-50	Upgradient	X		Detection Monitoring
GWA-50R	Upgradient	X		Detection Monitoring
GWC-5	Downgradient	X		Detection Monitoring
GWC-6	Downgradient	X		Detection Monitoring
GWC-6RZ	Downgradient	X		Detection Monitoring
GWC-7Z	Downgradient	X		Detection Monitoring
GWC-8Z	Downgradient	X		Detection Monitoring
GWC-8RR	Downgradient	X		Detection Monitoring
GWC-9	Downgradient	X		Detection Monitoring
GWC-10	Downgradient	X		Detection Monitoring
GWC-10R	Downgradient	X		Detection Monitoring
GWC-11	Downgradient	X		Detection Monitoring
GWC-11R	Downgradient	X	X	Detection Monitoring
GWC-12	Downgradient	X		Detection Monitoring
GWC-13	Downgradient	X		Detection Monitoring
GWC-13RZ	Downgradient	X		Detection Monitoring
GWC-14Z	Downgradient	X		Detection Monitoring
GWC-15Z	Downgradient	X		Detection Monitoring
GWC-15R	Downgradient	X		Detection Monitoring
LANDFILL CELLS 3 & 4 MONITORING WELL NETWORK				
GWA-36	Upgradient	X		Detection Monitoring
GWA-36R	Upgradient	X		Detection Monitoring
GWA-37	Upgradient	X		Detection Monitoring
GWA-38	Upgradient	X		Detection Monitoring
GWA-51RZ	Upgradient	X		Detection Monitoring
GWA-52	Upgradient	X		Detection Monitoring
GWA-53	Upgradient	X		Detection Monitoring
GWA-53R	Upgradient	X		Detection Monitoring
GWA-54	Upgradient	X		Detection Monitoring
GWA-55	Upgradient	X		Detection Monitoring
GWA-55R	Upgradient	X		Detection Monitoring
GWA-56	Upgradient	X		Detection Monitoring
GWC-16R	Downgradient	X		Detection Monitoring
GWC-17R	Downgradient	X		Detection Monitoring
GWC-18	Downgradient	X		Detection Monitoring
GWC-18R	Downgradient	X		Detection Monitoring
GWC-19R	Downgradient	X		Detection Monitoring
GWC-20R	Downgradient	X		Detection Monitoring
GWC-21R	Downgradient	X		Detection Monitoring
GWC-22R	Downgradient	X		Detection Monitoring
GWC-23R	Downgradient	X		Detection Monitoring
GWC-24R	Downgradient	X		Detection Monitoring
GWC-25R	Downgradient	X		Detection Monitoring

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		February 24 -26, March 9 - 19, 26, and 29, 2021	May 26, 2021	
Purpose of Sampling Event		Detection	Verification	
LANDFILL CELLS 9 & 10 MONITORING WELL NETWORK				
GWA-39Z	Upgradient	X		Detection Monitoring
GWA-39RZ	Upgradient	X		Detection Monitoring
GWA-40	Upgradient	X		Detection Monitoring
GWA-41	Upgradient	X		Detection Monitoring
GWA-41R	Upgradient	X		Detection Monitoring
GWA-42	Upgradient	X		Detection Monitoring
GWA-43	Upgradient	X		Detection Monitoring
GWA-43R	Upgradient	X		Detection Monitoring
GWC-44	Downgradient	X		Detection Monitoring
GWC-45	Downgradient	X		Detection Monitoring
GWC-45R	Downgradient	X		Detection Monitoring
GWC-46R	Downgradient	X	X	Detection Monitoring
GWC-47	Downgradient	X		Detection Monitoring
GWC-47R	Downgradient	X		Detection Monitoring
GWC-48	Downgradient	X	X	Detection Monitoring
GWC-49Z	Downgradient	X		Detection Monitoring
GWC-49R	Downgradient	X		Detection Monitoring

Notes:

X - indicates well sampled during event

GWC-11R was resampled for antimony to verify initial statistical exceedance

GWC-46R was resampled for chromium to verify initial statistical exceedance

GWC-48 was resampled for barium and sulfate to verify initial statistical exceedance

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**TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS**

Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia

Well ID	Top of Casing Elevation March 2021 Re-Survey (feet NAVD88)	Depth to Water (feet below TOC) 2/23/2021	Groundwater Elevation (feet NAVD88) 2/23/2021
Landfill Cells 1 & 2			
GWA-1	741.76	83.35	658.41
GWA-2	733.89	79.14	654.75
GWA-2R	734.83	79.69	655.14
GWA-3	Well Abandoned		
GWA-3A	731.68	76.56	655.12
GWA-4	743.06	Dry	Dry
GWA-4R	743.23	86.05	657.18
GWC-4RZ	742.84	86.44	656.40
GWA-50	731.21	63.77	667.44
GWA-50R	730.37	73.64	656.73
GWC-5	737.56	77.96	659.60
GWC-6	728.64	71.38	657.26
GWC-6RZ	731.91	75.07	656.84
GWC-7Z	713.04	55.94	657.10
GWC-8Z	702.09	45.69	656.40
GWC-8RR	701.92	45.54	656.38
GWC-9	694.67	39.97	654.70
GWC-10	687.87	33.03	654.84
GWC-10R	687.95	33.12	654.83
GWC-11	677.83	22.86	654.97
GWC-11R	677.73	22.82	654.91
GWC-12	677.25	22.10	655.15
GWC-13	686.76	31.53	655.23
GWC-13R	685.97	29.92	656.05
GWC-13RZ	684.60	59.11	625.49
GWC-14	686.81	31.51	655.30
GWC-14Z	687.28	31.01	656.27
GWC-15	695.19	39.05	656.14
GWC-15R	696.13	40.23	655.90
GWC-15Z	695.92	39.91	656.01
Landfill Cells 3 & 4			
GWA-36	684.50	31.57	652.93
GWA-36R	684.16	31.22	652.94
GWA-36RA	684.50	Not Installed	
GWA-37	703.72	50.21	653.51
GWA-38	716.24	53.32	662.92
GWA-51RZ	708.58	55.47	653.11
GWA-52	709.77	56.43	653.34
GWA-53	710.99	57.64	653.35
GWA-53R	711.58	58.29	653.29
GWA-54	704.23	50.76	653.47
GWA-55	696.72	43.21	653.51
GWA-55R	696.53	43.07	653.46
GWA-56	692.17	38.66	653.51
GWC-16R	730.59	78.78	651.81
GWC-17R	733.37	82.84	650.53
GWC-18	721.88	73.31	648.57
GWC-18R	721.76	72.90	648.86
GWC-19R	726.31	76.78	649.53
GWC-20R	720.59	70.81	649.78
GWC-21R	723.07	71.53	651.54
GWC-22R	715.41	63.56	651.85
GWC-23R	690.94	38.89	652.05
GWC-24R	676.57	24.49	652.08
GWC-25R	676.42	23.57	652.85
Landfill Cells 9 & 10			
GWA-39Z	735.15	66.35	668.80
GWA-39RZ	732.62	64.60	668.02
GWA-40	731.77	67.58	664.19
GWA-41	742.35	76.83	665.52
GWA-41R	743.08	77.55	665.53
GWA-42	738.05	74.69	663.36
GWA-43	710.94	50.58	660.36
GWA-43R	711.19	50.98	660.21
GWC-44	712.89	49.63	663.26
GWC-45	701.53	39.64	661.89
GWC-45R	702.02	49.74	652.28
GWC-46R	690.49	38.02	652.47
GWC-47	690.86	38.71	652.15
GWC-47R	691.13	38.96	652.17
GWC-48	688.33	35.70	652.63
GWC-49Z	709.11	53.69	655.42
GWC-49R	709.56	54.36	655.20

Notes:

GWA-3 abandoned on 2/19/2021

GWA-36RA installed on 7/2/2021

**TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia**

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 February	659.60	654.70	4.90	1302	0.004	0.072	0.01	0.03	11.0
	Overburden GWC-15 to GWC-14 February	656.14	655.30	0.84	326	0.003	0.072	0.01	0.02	7.3
	Overburden GWC-50 to GWC-6 February	667.44	657.26	10.18	650	0.016	0.072	0.01	0.11	40.2
	Bedrock GWC-8RR to GWC-10R February	656.38	654.83	1.55	600	0.003	0.36	0.01	0.09	32.9
	Bedrock GWA-1 to GWA-2R February	658.41	655.14	3.27	350	0.009	0.36	0.01	0.34	124.1
	Bedrock GWA-4R to GWC-6RZ February	657.18	656.84	0.34	625	0.001	0.36	0.01	0.02	7.3
Landfill Cells 3 & 4	Overburden GWA-53 to GWC-18 February	653.35	648.57	4.78	1250	0.004	0.072	0.01	0.03	11.0
	Overburden GWA-37 to GWC-18 February	653.51	648.57	4.94	977	0.005	0.072	0.01	0.04	14.6
	Bedrock GWA-53R to GWC-18R February	653.29	648.86	4.43	1265	0.004	0.36	0.01	0.13	47.5
	Bedrock GWA-36R to GWC-16R February	652.94	651.81	1.13	1150	0.001	0.36	0.01	0.04	14.6
	Bedrock GWC-25R to GWC-21R February	652.85	651.54	1.31	1325	0.001	0.36	0.01	0.04	14.6
Landfill Cells 9 & 10	Overburden GWA-41 to GWC-44 February	665.52	663.26	2.26	975	0.002	0.072	0.01	0.02	7.3
	Overburden GWC-49Z to GWC-48 February	655.42	652.63	2.79	250	0.011	0.072	0.01	0.08	29.2
	Overburden GWC-45 to GWC-47 February	661.89	652.15	9.74	525	0.019	0.072	0.01	0.13	47.5
	Bedrock GWA-41R to GWC-43R February	665.53	660.21	5.32	600	0.009	0.36	0.01	0.32	116.8
	Bedrock GWC-49R to GWC-47R February	655.20	652.17	3.03	547	0.006	0.36	0.01	0.20	73.0
	Bedrock GWA-43R to GWC-45R February	660.21	652.28	7.93	1050	0.008	0.36	0.01	0.27	98.6

Notes:

The average hydraulic conductivity values, measured in centimeters/second (cm/sec) used in the soil aquifer calculations (2.54 x 10⁻⁵ cm/sec = 0.072 ft/day) and the bedrock aquifer calculations (1.26 x 10⁻⁴ cm/sec = 0.36 ft/day) are presented in the 2002 Plant Bowen Proposed Coal Combustion By-Product Storage Facility Site Acceptability Report. 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.

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance		Well ID								
		GWA-1	GWA-2	GWA-2R	GWA-3A	GWA-4RZ	GWA-50	GWA-50R	GWC-5	GWC-6
		3/16/2021	3/17/2021	3/16/2021	3/29/2021	3/16/2021	3/17/2021	3/17/2021	3/17/2021	3/17/2021
APPENDIX III	Boron	<0.0052	<0.0052	0.0061 (J)	<0.0052	0.0092 (J)	<0.0052	<0.0052	<0.0052	<0.0052
	Calcium	34.6	40.4	26.7	19.0	53.7	1.4	5.4	3.0	14.1
	Chloride	1.3	1.4	0.73 (J)	1.5	2.7	1.0 (J)	0.81 (J)	0.69 (J)	1.2
	Fluoride	<0.050	<0.050	<0.050	0.053 (J)	0.10	<0.050	<0.050	<0.050	<0.050
	pH	7.57	6.58	7.51	8.04	7.40	5.64	6.31	5.85	7.57
	Sulfate	0.99 (J)	90.7	3.3	5.4	22.1	<0.50	0.86 (J)	1.1	2.2
	TDS	155	211	102	76.0	196	<10.0	31.0	15.0	47.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance	Well ID							
	GWC-6RZ 3/17/2021	GWC-7Z 3/17/2021	GWC-8RR 3/17/2021	GWC-8Z 3/18/2021	GWC-9 3/18/2021	GWC-10 3/18/2021	GWC-10R 3/18/2021	GWC-11 3/19/2021
APPENDIX III	Boron	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
	Calcium	9.5	23.9	22.4	9.6	1.9	27.0	43.8
	Chloride	1.4	0.79 (J)	0.78 (J)	1.6	2.2	2.1	2.5
	Fluoride	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	pH	7.03	7.52	8.08	6.45	4.78	6.69	7.52
	Sulfate	1.8	1.3	0.72 (J)	1.1	2.1	1.2	0.96 (J)
	TDS	43.0	112	113	48.0	<10.0	74.0	62.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 5
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance	Well ID								
	GWC-11R	GWC-11R	GWC-12	GWC-13	GWC-13RZ	GWC-14Z	GWC-15R	GWC-15Z	
	3/19/2021	5/26/2021	3/19/2021	3/18/2021	3/19/2021	3/18/2021	3/18/2021	3/18/2021	
APPENDIX III	Boron	<0.0052	NA	<0.0052	0.0091 (J)	0.014 (J)	<0.0052	<0.0052	<0.0052
	Calcium	31.3	NA	7.8	30.8	43.0	13.0	42.1	27.4
	Chloride	1.4	NA	0.79 (J)	3.4	7.4	4.0	1.7	0.67 (J)
	Fluoride	<0.050	NA	<0.050	<0.050	0.12	<0.050	<0.050	<0.050
	pH	7.64	7.55	6.31	7.30	7.42	6.04	7.58	7.87
	Sulfate	1.5	NA	<0.50	19.3	74.2	7.8	10.4	0.76 (J)
	TDS	135	NA	53.0	82.0	250	57.0	153	54.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 6
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance		Well ID							
		GWA-36	GWA-36R	GWA-36R Dissolved	GWA-37	GWA-38	GWA-51RZ	GWA-52	GWA-53
		2/24/2021	3/26/2021	3/26/2021	2/24/2021	2/24/2021	2/25/2021	2/24/2021	2/26/2021
APPENDIX III	Boron	0.0062 (J)	0.019 (J)	0.011 (J)	<0.0052	<0.0052	0.0052 (J)	0.0099 (J)	<0.0052
	Calcium	13.6	30.1	27.2	0.71 (J)	1.2	49.8	37.1	29.6
	Chloride	2.0	2.5	NA	0.84 (J)	3.1	2.7	3.3	2.3
	Fluoride	<0.050	<0.050	NA	<0.050	<0.050	<0.050	<0.050	<0.050
	pH	6.69	7.11	7.11	5.49	5.23	7.43	7.53	7.70
	Sulfate	0.51 (J)	5.4	NA	<0.50	0.72 (J)	29.5	29.2	1.6
	TDS	60.0	123	NA	10.0	12.0	217	144	128

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 6
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance		Well ID							
		GWA-53R	GWA-54	GWA-55	GWA-55R	GWA-56	GWC-16R	GWC-17R	GWC-18
		2/26/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	3/9/2021	3/10/2021	2/26/2021
APPENDIX III	Boron	<0.0052	<0.0052	0.0075 (J)	0.0055 (J)	0.017 (J)	0.028 (J)	<0.0052	<0.0052
	Calcium	31.1	25.3	48.5	44.8	36.0	76.4	67.1	25.2
	Chloride	2.4	0.78 (J)	6.7	4.8	4.4	1.5	4.7	2.3
	Fluoride	<0.050	<0.050	<0.050	<0.050	0.097 (J)	0.25	<0.050	<0.050
	pH	7.72	7.55	7.05	7.27	7.85	7.34	7.27	7.07
	Sulfate	1.6	1.7	34.5	23.2	62.6	12.9	7.3	2.1
	TDS	98.0	124	217	194	284	335	256	90.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 6
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance		Well ID							
		GWC-18R	GWC-19R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
		2/26/2021	2/26/2021	3/9/2021	3/9/2021	3/9/2021	3/10/2021	3/9/2021	3/9/2021
APPENDIX III	Boron	<0.0052	<0.0052	<0.0052	0.015 (J)	0.0058 (J)	<0.0052	<0.0052	<0.0052
	Calcium	31.9	33.3	35.8	64.1	35.7	62.2	33.2	36.4
	Chloride	2.4	2.4	1.9	5.0	2.4	1.6	2.1	2.3
	Fluoride	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	pH	7.81	7.73	7.81	6.98	7.35	7.41	7.80	8.07
	Sulfate	2.1	3.4	1.5	10.5	1.4	56.8	1.6	1.6
	TDS	121	172	163	286	161	333	158	153

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 7
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance		Well ID						
		GWA-39RZ	GWA-39Z	GWA-40	GWA-41	GWA-41R	GWA-42	GWA-43
		3/16/2021	3/12/2021	3/10/2021	3/11/2021	3/10/2021	3/11/2021	3/11/2021
APPENDIX III	Boron	<0.0052	0.011 (J)	<0.0052	0.0075 (J)	0.0098 (J)	<0.0052	<0.0052
	Calcium	32.4	11.0	22.8	25.9	40.3	34.8	2.1
	Chloride	1.3	1.2	0.97 (J)	1.5	1.6	2.5	1.3
	Fluoride	<0.050	0.051 (J)	<0.050	<0.050	<0.050	<0.050	<0.050
	pH	7.85	6.39	7.30	6.80	7.30	7.53	5.55
	Sulfate	3.5	2.0	1.5	6.1	8.4	1.6	<0.50
	TDS	142	55.0	60.0	101	148	109	14.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 7
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance	Well ID							
	GWA-43R	GWC-44	GWC-45	GWC-45R	GWC-46R	GWC-46R	GWC-47	
	3/11/2021	3/11/2021	3/11/2021	3/11/2021	3/11/2021	5/26/2021	3/11/2021	
APPENDIX III	Boron	0.017 (J)	0.016 (J)	<0.0052	0.0060 (J)	<0.0052	NA	<0.0052
	Calcium	31.2	11.9	0.93 (J)	43.1	45.2	NA	21.1
	Chloride	2.7	5.5	0.83 (J)	4.0	1.1	NA	2.3
	Fluoride	<0.050	<0.050	<0.050	<0.050	<0.050	NA	<0.050
	pH	7.81	4.21	4.68	7.21	7.53	7.39	7.34
	Sulfate	4.3	35.5	<0.50	4.2	6.7	NA	4.7
	TDS	98.0	43.0	12.0	167	209	NA	106

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 7
ANALYTICAL DATA SUMMARY
Appendix III
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance		Well ID				
		GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49Z
		3/11/2021	3/11/2021	5/26/2021	3/15/2021	3/15/2021
APPENDIX III	Boron	<0.0052	<0.0052	NA	0.010 (J)	0.0066 (J)
	Calcium	31.8	5.9	NA	24.7	0.69 (J)
	Chloride	2.4	4.5	NA	1.2	0.98 (J)
	Fluoride	<0.050	<0.050	NA	<0.050	<0.050
	pH	7.48	4.95	4.72	8.05	5.31
	Sulfate	10.4	15.4	20.2	2.6	1.5
	TDS	143	40.0	NA	107	30.0

Notes:

1. Results for constituent are reported in milligrams per liter (mg/L). pH reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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
6. NA indicates constituent was not analyzed.

TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance		Well ID								
		GWA-1	GWA-2	GWA-2R	GWA-3A	GWA-4RZ	GWA-50	GWA-50R	GWC-5	GWC-6
		3/16/2021	3/17/2021	3/16/2021	3/29/2021	3/16/2021	3/17/2021	3/17/2021	3/17/2021	3/17/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.0014 (J)	<0.00028	0.0050	<0.00028	0.00082 (J)	<0.00028	<0.00028	<0.00028	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	0.0010 (J)	0.00098 (J)	<0.00078	<0.00078	<0.00078	0.0013 (J)
	Barium	0.018	0.025	0.013	0.0073	0.042	0.0074	0.012	0.014	0.0075
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	0.00061	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.00012 (J)	<0.00012	0.00013 (J)	<0.00012
	Chromium	<0.00055	<0.00055	<0.00055	0.00062 (J)	<0.00055	<0.00055	<0.00055	0.00069 (J)	0.0027 (J)
	Cobalt	<0.00038	<0.00038	<0.00038	<0.00038	0.015	<0.00038	<0.00038	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.0019 (J)	0.0024 (J)	0.019	<0.0017
	Lead	0.000052 (J)	<0.000036	0.000070 (J)	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	0.000074 (J)
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	0.0012 (J)	0.0077	<0.00069
	Selenium	<0.0016	0.0045 (J)	0.0021 (J)	<0.0016	<0.0016	<0.0016	<0.0016	0.0019 (J)	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.00044 (J)	0.0026 (J)	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	
Zinc	0.0091 (J)	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.027	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance		Well ID							
		GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWC-10	GWC-10R	GWC-11
		3/17/2021	3/17/2021	3/17/2021	3/18/2021	3/18/2021	3/18/2021	3/18/2021	3/19/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	<0.00028	0.00099 (J)	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.00032 (J)
	Arsenic	<0.00078	<0.00078	<0.00078	0.00082 (J)	<0.00078	<0.00078	<0.00078	<0.00078
	Barium	0.0072	0.022	0.014	0.018	0.041	0.025	0.027	0.011
	Beryllium	<0.000046	<0.000046	<0.000046	0.000085 (J)	0.00016 (J)	0.00010 (J)	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	0.0021 (J)	<0.00055	0.00079 (J)	0.0015 (J)	<0.00055	0.00068 (J)	0.0020 (J)	0.0073
	Cobalt	<0.00038	0.00045 (J)	<0.00038	<0.00038	<0.00038	0.0010 (J)	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
	Lead	<0.000036	0.000049 (J)	<0.000036	0.00011 (J)	0.00010 (J)	<0.000036	<0.000036	<0.000036
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	<0.00069	<0.00069	<0.00069	0.0010 (J)	0.00094 (J)	0.0011 (J)	<0.00069
	Selenium	0.0038 (J)	<0.0016	<0.0016	0.0089	<0.0016	<0.0016	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	0.00015 (J)	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	
Zinc	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 8
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 1 & 2
Bartow County, Georgia

Substance		Well ID							
		GWC-11R 3/19/2021	GWC-11R 5/26/2021	GWC-12 3/19/2021	GWC-13 3/18/2021	GWC-13RZ 3/19/2021	GWC-14Z 3/18/2021	GWC-15R 3/18/2021	GWC-15Z 3/18/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.012	0.0037	<0.00028	0.00078 (J)	0.0011 (J)	<0.00028	0.00045 (J)	<0.00028
	Arsenic	0.0013 (J)	NA	0.0052	<0.00078	0.00084 (J)	<0.00078	<0.00078	<0.00078
	Barium	0.021	NA	0.024	0.023	0.086	0.014	0.020	0.012
	Beryllium	<0.000046	NA	<0.000046	0.000070 (J)	<0.000046	0.00012 (J)	<0.000046	<0.000046
	Cadmium	<0.00012	NA	0.00027 (J)	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	0.0079	NA	<0.00055	0.0058	<0.00055	0.0023 (J)	0.00089 (J)	0.00078 (J)
	Cobalt	<0.00038	NA	0.0029 (J)	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Copper	0.0018 (J)	NA	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
	Lead	0.00018 (J)	NA	<0.000036	0.00024 (J)	0.000074 (J)	<0.000036	0.00036 (J)	0.000040 (J)
	Mercury	<0.000078	NA	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	NA	0.0022 (J)	<0.00069	<0.00069	<0.00069	0.00079 (J)	<0.00069
	Selenium	<0.0016	NA	<0.0016	0.0021 (J)	<0.0016	0.0016 (J)	<0.0016	<0.0016
	Silver	<0.00036	NA	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	NA	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
Vanadium	<0.0022	NA	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	
Zinc	<0.0035	NA	0.0076 (J)	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 9
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance	Well ID								
	GWA-36	GWA-36R	GWA-36R Dissolved	GWA-37	GWA-38	GWA-51RZ	GWA-52	GWA-53	
	2/24/2021	3/26/2021	3/26/2021	2/24/2021	2/24/2021	2/25/2021	2/24/2021	2/26/2021	
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00068 (J)	0.00092 (J)	0.00066 (J)	0.0012 (J)	<0.00028	0.00061 (J)	<0.00028	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	Barium	0.016	0.020	0.019	0.0044 (J)	0.013	0.018	0.025	0.013
	Beryllium	0.00022 (J)	0.00019 (J)	0.000058 (J)	<0.000046	<0.000046	<0.000046	<0.000046	0.000051 (J)
	Cadmium	0.0012	0.00015 (J)	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	<0.00055	0.00060 (J)	<0.00055	<0.00055	0.0018 (J)	<0.00055	0.00097 (J)	0.00080 (J)
	Cobalt	<0.00038	<0.00038	<0.00038	<0.00038	0.0011 (J)	<0.00038	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	0.0083	<0.0017	<0.0017	<0.0017	<0.0017
	Lead	0.000062 (J)	0.00095 (J)	0.000093 (J)	<0.000036	<0.000036	<0.000036	<0.000036	0.00012 (J)
	Mercury	<0.000078	<0.000078	<0.000078	0.000091 (J)	0.00013 (J)	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	<0.00069	<0.00069	0.010	0.00091 (J)	<0.00069	<0.00069	<0.00069
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	0.0099	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
	Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022
Zinc	0.44	0.046	0.030	0.0038 (J)	<0.0035	<0.0035	<0.0035	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.

TABLE 9
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance		Well ID							
		GWA-53R	GWA-54	GWA-55	GWA-55R	GWA-56	GWC-16R	GWC-17R	GWC-18
		2/26/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	3/9/2021	3/10/2021	2/26/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00060 (J)	<0.00028	<0.00028	<0.00028	<0.00028	0.018	<0.00028	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.00094 (J)	<0.00078	<0.00078
	Barium	0.015	0.034	0.028	0.034	0.032	0.058	0.019	0.017
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	0.00071 (J)	0.0017 (J)	0.00078 (J)	0.00083 (J)	0.0010 (J)	0.0024 (J)	<0.00055	0.0014 (J)
	Cobalt	<0.00038	<0.00038	0.0039 (J)	<0.00038	<0.00038	0.00047 (J)	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.0025 (J)	<0.0017	<0.0017
	Lead	0.000064 (J)	<0.000036	0.000090 (J)	0.000038 (J)	0.000045 (J)	0.00011 (J)	<0.000036	0.000094 (J)
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	0.0053	<0.00069	<0.00069
	Selenium	<0.0016	<0.0016	0.0018 (J)	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
	Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.0030 (J)	<0.0022	<0.0022
Zinc	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.025	<0.0035	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.

TABLE 9
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 3 & 4
Bartow County, Georgia

Substance		Well ID							
		GWC-18R	GWC-19R	GWC-20R	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
		2/26/2021	2/26/2021	3/9/2021	3/9/2021	3/9/2021	3/10/2021	3/9/2021	3/9/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00059 (J)	<0.00028	<0.00028	0.0024 (J)	<0.00028	<0.00028	0.00035 (J)	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	0.0045 (J)	0.0018 (J)	<0.00078	<0.00078	<0.00078
	Barium	0.015	0.016	0.027	0.014	0.045	0.026	0.021	0.016
	Beryllium	0.00020 (J)	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	0.00069 (J)	0.00067 (J)	0.00094 (J)	<0.00055	<0.00055	0.00073 (J)	<0.00055	0.00079 (J)
	Cobalt	<0.00038	<0.00038	<0.00038	0.00040 (J)	0.00066 (J)	<0.00038	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
	Lead	0.00025 (J)	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	<0.00069	<0.00069	0.00075 (J)	<0.00069	<0.00069	<0.00069	<0.00069
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	
Zinc	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.0063 (J)	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.

TABLE 10
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance		Well ID						
		GWA-39RZ	GWA-39Z	GWA-40	GWA-41	GWA-41R	GWA-42	GWA-43
		3/16/2021	3/12/2021	3/10/2021	3/11/2021	3/10/2021	3/11/2021	3/11/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00041 (J)	0.0039	<0.00028	0.00038 (J)	0.00037 (J)	<0.00028	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	Barium	0.014	0.014	0.0083	0.024	0.023	0.0061	0.0096
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	0.00015 (J)	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.00017 (J)	<0.00012
	Chromium	0.00080 (J)	0.00064 (J)	0.00075 (J)	0.0015 (J)	<0.00055	<0.00055	<0.00055
	Cobalt	<0.00038	0.00079 (J)	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
	Lead	0.00020 (J)	0.00020 (J)	<0.000036	<0.000036	0.00012 (J)	<0.000036	0.000063 (J)
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Nickel	<0.00069	0.0015 (J)	<0.00069	<0.00069	<0.00069	0.0011 (J)	<0.00069
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	
Zinc	<0.0035	0.0065 (J)	<0.0035	<0.0035	<0.0035	0.0089 (J)	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 10
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance		Well ID						
		GWA-43R	GWC-44	GWC-45	GWC-45R	GWC-46R	GWC-46R	GWC-47
		3/11/2021	3/11/2021	3/11/2021	3/11/2021	3/11/2021	5/26/2021	3/11/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00074 (J)	<0.00028	0.00062 (J)	<0.00028	<0.00028	NA	<0.00028
	Arsenic	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	NA	<0.00078
	Barium	0.0069	0.046	0.0059	0.022	0.012	NA	0.0083
	Beryllium	<0.000046	0.000064 (J)	<0.000046	<0.000046	<0.000046	NA	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	NA	0.00018 (J)
	Chromium	0.0011 (J)	<0.00055	<0.00055	<0.00055	0.0059	0.0052	0.0013 (J)
	Cobalt	<0.00038	0.0016 (J)	0.0011 (J)	<0.00038	<0.00038	NA	<0.00038
	Copper	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	NA	<0.0017
	Lead	0.00013 (J)	0.00053 (J)	0.00012 (J)	0.000045 (J)	<0.000036	NA	0.000048 (J)
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	NA	<0.000078
	Nickel	<0.00069	<0.00069	0.00092 (J)	<0.00069	<0.00069	NA	<0.00069
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	NA	<0.0016
	Silver	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	NA	<0.00036
	Thallium	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	NA	<0.00014
Vanadium	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	NA	<0.0022	
Zinc	<0.0035	0.0040 (J)	<0.0035	<0.0035	<0.0035	NA	0.047	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 10
ANALYTICAL DATA SUMMARY
Solid Waste Permit Metals
(February-March 2021)
Plant Bowen
Landfill Cells 9 & 10
Bartow County, Georgia

Substance		Well ID				
		GWC-47R	GWC-48	GWC-48	GWC-49R	GWC-49Z
		3/11/2021	3/11/2021	5/26/2021	3/15/2021	3/15/2021
GEORGIA SOLID WASTE PERMIT METALS	Antimony	0.00038 (J)	<0.00028	NA	0.0019 (J)	0.00086 (J)
	Arsenic	<0.00078	<0.00078	NA	<0.00078	<0.00078
	Barium	0.0073	0.038	0.039	0.012	0.0028 (J)
	Beryllium	<0.000046	0.00033 (J)	NA	<0.000046	<0.000046
	Cadmium	<0.00012	0.00021 (J)	NA	<0.00012	<0.00012
	Chromium	0.0019 (J)	0.0021 (J)	NA	0.00076 (J)	<0.00055
	Cobalt	<0.00038	0.0025 (J)	NA	<0.00038	0.00056 (J)
	Copper	<0.0017	<0.0017	NA	<0.0017	<0.0017
	Lead	<0.000036	<0.000036	NA	<0.000036	0.000046 (J)
	Mercury	<0.000078	0.00020 (J)	NA	<0.000078	<0.000078
	Nickel	<0.00069	0.0047 (J)	NA	<0.00069	0.0013 (J)
	Selenium	<0.0016	<0.0016	NA	<0.0016	<0.0016
	Silver	<0.00036	<0.00036	NA	<0.00036	<0.00036
	Thallium	<0.00014	<0.00014	NA	<0.00014	<0.00014
Vanadium	<0.0022	<0.0022	NA	<0.0022	<0.0022	
Zinc	0.028	0.0088 (J)	NA	<0.0035	<0.0035	

Notes:

1. Results for constituents are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit shown.
3. (J) indicates the constituent 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 cells indicate concentration above maximum contaminant level.
5. NA indicates constituent was not analyzed.

TABLE 11
STATISTICAL METHOD SUMMARY
Plant Bowen
Landfill Cells 1 & 2, 3 & 4, and 9 & 10
Bartow County, Georgia

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.
	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.

TABLE 11
STATISTICAL METHOD SUMMARY
Plant Bowen
Landfill Cells 1 & 2, 3 & 4, and 9 & 10
Bartow County, Georgia

<p style="text-align: center;">Statistical Methodology</p>	<p style="text-align: center;">Optional</p>	<ul style="list-style-type: none"> ▪ Interwell statistical methods may be used as a second step to determine if an apparent SSI identified by intrawell statistical methods is below sitewide background. ▪ 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.
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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**

**2021 Semi-Annual Groundwater
Monitoring & Corrective Action Report**

Site Location Map

0 2,500 5,000 10,000
Feet

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

Prepared by/Date:
JCD 8/6/2021
Checked by/Date:
RRQ 8/6/2021
Project Number:
6122160287



Figure
Number:
1

Legend

● Spring Sampling Location

Well Location

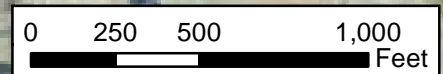
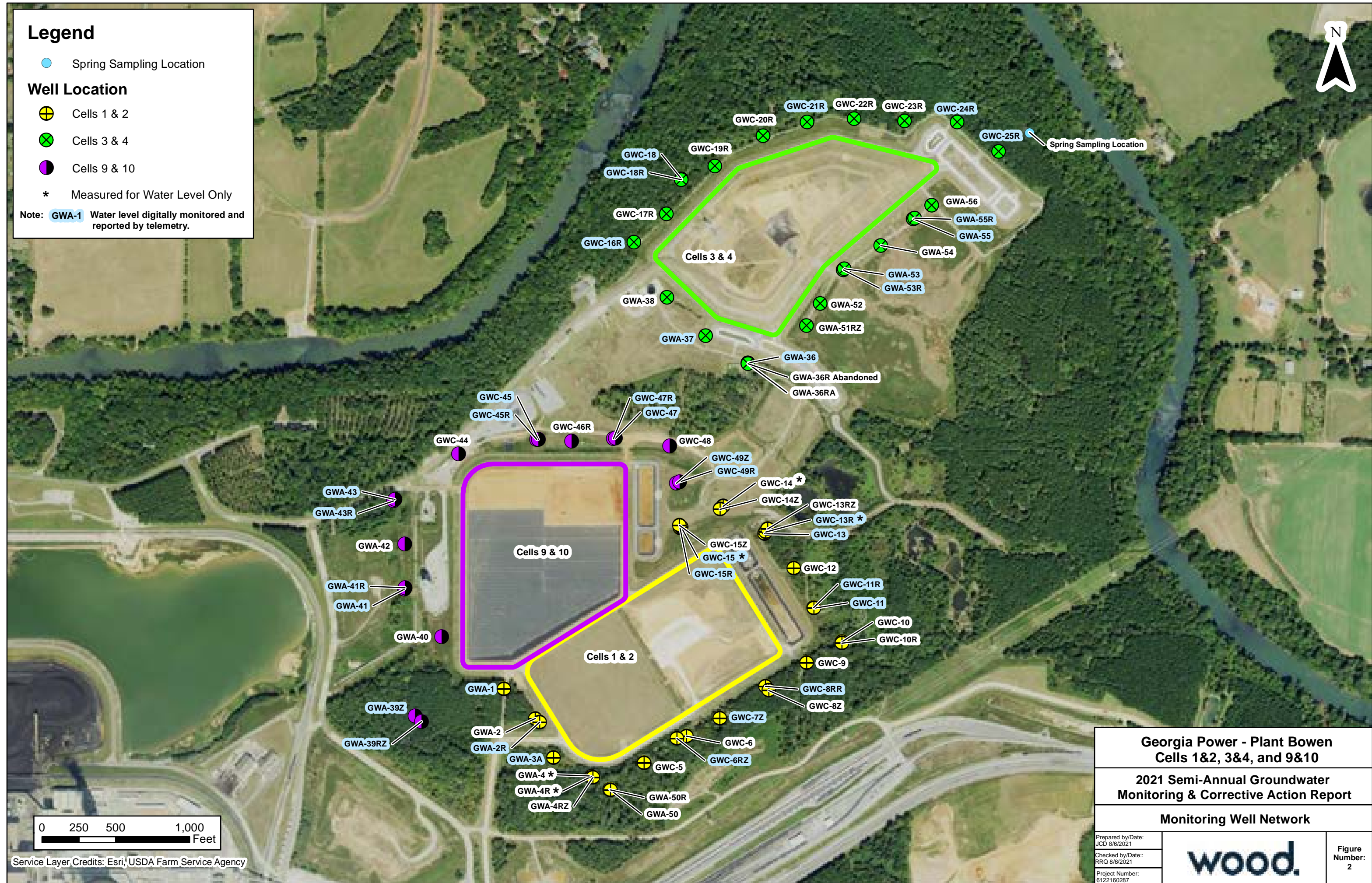
⊕ Cells 1 & 2

⊗ Cells 3 & 4

● Cells 9 & 10

* Measured for Water Level Only

Note: **GWA-1** Water level digitally monitored and reported by telemetry.



Service Layer Credits: Esri, USDA Farm Service Agency

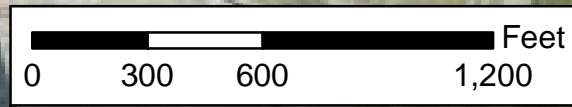
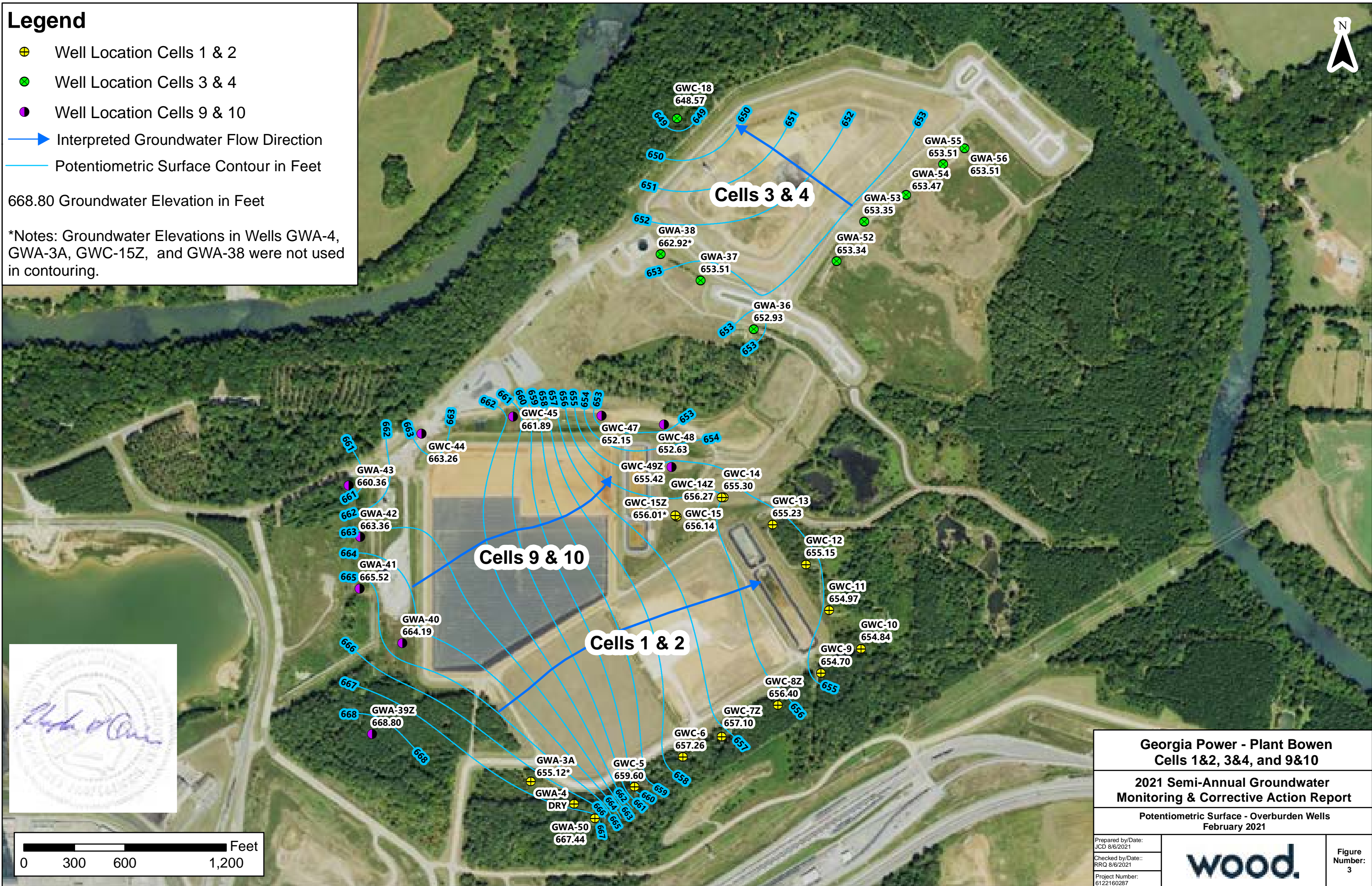
Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10	
2021 Semi-Annual Groundwater Monitoring & Corrective Action Report	
Monitoring Well Network	
Prepared by/Date: JCD 8/6/2021	
Checked by/Date: RRQ 8/6/2021	
Project Number: 6122160287	
Figure Number: 2	

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

668.80 Groundwater Elevation in Feet

*Notes: Groundwater Elevations in Wells GWA-4, GWA-3A, GWC-15Z, and GWA-38 were not used in contouring.



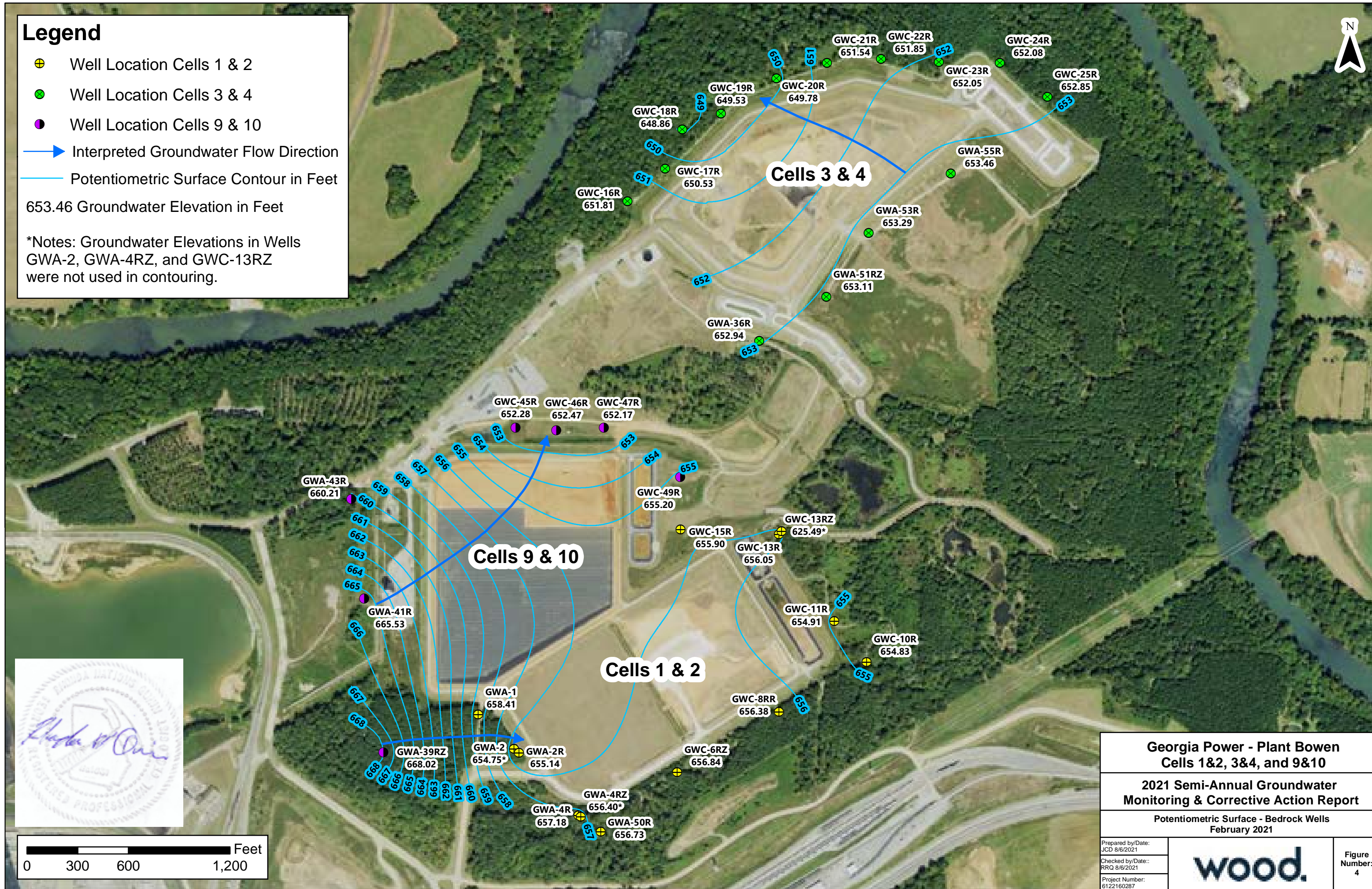
Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10	
2021 Semi-Annual Groundwater Monitoring & Corrective Action Report	
Potentiometric Surface - Overburden Wells February 2021	
Prepared by/Date: JCD 8/6/2021	
Checked by/Date: RRQ 8/6/2021	
Project Number: 6122160287	
Figure Number: 3	

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

653.46 Groundwater Elevation in Feet

*Notes: Groundwater Elevations in Wells GWA-2, GWA-4RZ, and GWC-13RZ were not used in contouring.



Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10	
2021 Semi-Annual Groundwater Monitoring & Corrective Action Report	
Potentiometric Surface - Bedrock Wells February 2021	
Prepared by/Date: JCD 8/6/2021	
Checked by/Date: RRQ 8/6/2021	
Project Number: 6122160287	
Figure Number: 4	

APPENDIX A

WELL INSTALLATION REPORTS

Groundwater Monitoring Well Installation Report

Georgia Power Company – Plant Bowen

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

Project No.: 6122160287

Prepared for:



Atlanta, Georgia

5/20/2021

Professional Groundwater 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 groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565



Andreas Shoredits, P.G.
Registered Professional Geologist
Georgia Registration No. 2310

Date: *May 19, 2021*



Date: *May 20, 2021*



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1.0 INTRODUCTION

Georgia Power's Plant Bowen solid waste disposal facility (Site) is located in 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 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). 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 1: Location of Replacement Well GWA-3A**.

During the October 2020 semi-annual sampling event, Cells 1 & 2 existing upgradient overburden monitoring well GWA-3, had elevated pH values that were higher than pH values measured in the past for this well. The well was re-developed, and the pH values remained elevated. A downhole camera investigation of the well showed a vertical crack had developed in the PVC riser above the well screen in the grout seal interval of the well. The threaded pipe joints in the casing also had a deteriorated appearance. The well could not be repaired, and the decision was made to replace well GWA-3. Existing well GWA-3 was abandoned and new replacement well GWA-3A was installed.

The purpose of new monitoring well GWA-3A is to function as an upgradient well screened in the overburden for Cells 1 & 2.

This report provides details for the drilling and installation of monitoring well GWA-3A installed in February 2021. The well construction details are included in **Table 1: Summary of Monitoring Well Construction** and its location is shown in **Figure 1**. The abandonment of existing well GWA-3 is also presented in this report.

2.0 DRILLING AND WELL INSTALLATION

The following sections provide details and description of drilling methodology, materials used in the construction, and installation procedures used in constructing the monitoring well GWA-3A. Monitoring well construction details are summarized in **Table 1**.

2.1 Drilling Method

Wood provided oversight and documented the drilling and installation of monitoring well GWA-3A by Cascade Drilling, under contract with Southern Company, between February 16 and 19, 2021. A copy of the Water Well Contractor's performance bond is provided in **Appendix A: Well Construction and Boring Logs**. The drilling was performed using roto-sonic technology with a Terra Sonic, compact, track-mounted drill rig. An air knife was used to excavate the upper 10 feet of the well location to provide clearance of potential underground utilities.

Following subsurface clearance, a 4-inch diameter sampling core barrel and tooling, followed by a 6-inch override (outer) casing, was advanced via sonic methodology to a final depth of 139.5 feet (589.2 feet above North America Vertical Datum of 1988 (NAVD88)) for the purpose of collecting soil and rock for lithologic characterization and subsequent well installation. Soil and/or rock were collected continuously, in core runs up to 10 feet, from near the ground surface to the boring termination depth. Upon completion of a core run, prior to retracting the core barrel, 6-inch override (outer) casing was advanced over the 4-inch core barrel and tooling to maintain borehole integrity. Once the override casing was in place, the core barrel was retracted from the borehole and the soil and/or rock sample were extruded into a plastic sleeve and provided to the Wood field geologist for characterization, documentation, photographing, and archival in wooden sample storage boxes (see **Appendix A: Well Construction and Boring Logs**). After sample retrieval, the core barrel was advanced, and another core run was completed. This process was continued until the target depth was reached where bedrock was encountered.

Upon reaching the target depth, the 6-inch override casing was used to flush/clean-out the borehole and left in place for well construction. The well was installed directly through the override casing. The screen and casing (riser) were placed in the override casing and the annular space was filled (i.e., emplacement of the filter pack, bentonite, and grout) as the override casing was retracted.

2.2 Screened Interval

Well GWA-3A is screened from the top of bedrock to 10 feet above bedrock in the overburden soils and was constructed with 10 feet of slotted screen as shown in the Well Construction Log provided in **Appendix A**. The former well, GWA-3, was constructed with a screened interval

depth of 85 to 95 feet, below ground surface (bgs) (634.9-644.9 feet, NAVD88) which was a shallower elevation than GWA-3A (591.9-601.9 feet, NAVD88). Well GWA-3 was shallower because the hollow-stem augers used for drilling refused on a rock lens at 95 feet. Roto-sonic drilling technology was able to drill through the rock lens and reach bedrock at a deeper depth.

2.3 Well Casing and Screens

The monitoring well is constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing (riser) and pre-packed Number 10 slot (0.010-inch aperture) screen. The pre-pack screen is comprised of a 10-foot section of slotted PVC screen covered with a stainless-steel mesh (outer screen) to contain filter pack material situated between the outer stainless-steel mesh and the slotted PVC. A pre-packed screen was used in the construction of the monitoring well. Well construction materials are designed to be sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. The casing and screen section was flush-threaded and did not require the use of solvent or adhesive to construct the well.

2.4 Well Intake Design

The monitoring well was designed and constructed to:

- 1) allow sufficient groundwater flow to the well for sampling;
- 2) minimize the passage of formation materials (turbidity) into the well; and,
- 3) ensure sufficient structural integrity to prevent collapse of the well.

The monitoring well is screened using 0.010-inch slotted PVC, pre-packed (essentially dual-wall) well screen. The pre-packed (dual-wall) well screens generally combine a centralized inner well screen (slotted PVC), a void filled with filter pack (sand) appropriately sized for the screen aperture, and an outer conductor screen (stainless steel mesh) in one integrated unit.

2.5 Filter Pack

The filter pack material is designed to be chemically inert, clean, well-graded, well-rounded, dimensionally stable, silica (quartz) sand of which the 80 to 90 percent retained size is 0.010-inch diameter (the screen aperture). The filter pack sand used for the construction of the monitoring well was the #1 filter sand from Southern Products & Silica Co. The filter pack material was emplaced in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. The filter pack was extended approximately two feet above the top of the screen. Potable water was mixed with the filter pack material to generate a slurry in order to prevent bridging from occurring during filter pack emplacement. After installing the filter pack, the well was pumped

to allow settlement of the filter pack material, prior to installing the annular seal. The filter pack depth/interval is documented in well construction log provided in **Appendix A**.

2.6 Annular Seal

After installing the filter pack, approximately three to three and a half feet of bentonite pellets were emplaced in the annular space directly above the filter pack to seal the annulus and prevent vertical flow of water along the well casing. The bentonite used for the construction of the well was 3/8-inch, non-coated pellets (PDS Pel-Plug). The bentonite pellets were allowed to hydrate at least 24-hours and settle in accordance with the manufacturer's recommendations prior to grouting the well.

After the bentonite was adequately hydrated, the remaining annular space was sealed using AQUAGUARD by Baroid Industrial Drilling Products, a sodium bentonite blended grout. The grout was prepared in accordance with manufacturer's instructions and emplaced from the bentonite seal to the near ground surface via tremie method. The grout was injected at a low velocity as to not displace the bentonite seal and the tremie pipe was raised as grout filled the annular space. The initial grout-mix volume of approximately 250 gallons was lost into the overburden soils between the likely depth zone of 110-130 feet below ground surface. Additional well plug (bentonite pellets) was emplaced across the entire length of the saturated soils to a depth of approximately 75 feet below ground surface. After a sufficient hydration period, a mixture of bentonite grout was injected via tremie method from a depth of 75 feet to within two feet of ground surface. Additional grout and bentonite were emplaced in the upper 10 feet of annulus space due to the loss of grout into the soils disturbed by the air-knife utility clearance.

A concrete seal extends from approximately two feet below ground surface to grade and was formed into a slightly mounded cement apron extending outward to help direct rainwater run-off away from the well. The well pad dimensions were 4 feet by 4 feet with a thickness of 4 inches.

2.7 Cap and Protective Casing

GWA-3A was fitted with a sealable cap and a lockable, 4-inch square, steel, above-grade (stick-up) protective casing installed over the well to protect the PVC riser from damage and secure it from unauthorized access. The annular space between the well riser and protective casing was filled with pea-size gravel and a small weephole was drilled near the base to allow for drainage from inside the protective casing. Additionally, bollards were installed at the corners of the concrete pad to protect the well. Prior to leaving the site, each well was secured with a padlock, keyed specific to the site (Master, 2246 key). Well construction details are documented in **Appendix A**.

3.0 WELL DEVELOPMENT

GWA-3A was developed using an electric submersible pump to restore the natural hydraulic conductivity of the formation and to remove fine-grained sediment to help ensure low-turbidity groundwater samples. The well was alternately surged and purged until visually clear of particulates. Groundwater quality parameters turbidity, pH, specific conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were monitored for stabilization during development to verify that the well was adequately developed.

Development of the groundwater monitoring well continued until criteria indicating adequate development was achieved. Development is generally recognized as being complete when the well yields water with a turbidity less than 10 Nephelometric Turbidity Units (NTU) and the pH and specific conductivity has stabilized (i.e., pH within 0.1 standard unit and specific conductivity within 5% over three consecutive measurements). The development forms are included in **Appendix B: Well Development Forms**.

Prior to deploying the development pump into the well, the pump was decontaminated and fitted with new disposable tubing. New disposable, nitrile gloves were worn throughout the development process, including when initially deploying the pump, handling the pump and tubing while surging, and during decontamination activities.

4.0 SURVEY

Well locations, top of casing (TOC) elevations, and ground surface elevations were surveyed by Donaldson Garrett & Associates, Inc. Northings and easting are in feet relative to Georgia State Plane, West Zone, North America Datum of 1983 (NAD 83). TOC and ground surface elevations are in feet relative to North American Vertical Datum of 1988 (NAVD 88). Survey data are included in **Table 1**. Well survey documents are provided in **Appendix C: Well Survey Documents**.

5.0 WELL ABANDONMENT

Well GWA-3 was abandoned following EPA Region 4 guidance for grouting-in-place procedures. The screened interval of the well was filled in with bentonite pellets and the seal was allowed sufficient time to hydrate. The riser length above the screened interval was subsequently filled with a bentonite grout mixture to ground surface utilizing the tremie method. Grouting ceased when the grout mixture daylighted at the surface as visible grout after water inside the riser was initially displaced. For details on the abandonment of GWA-3, see **Appendix D: Well Abandonment Documents**.

6.0 GENERAL REFERENCES

Southern Company Services, Inc., 2016, Draft Monitoring Well Development Procedures, Birmingham, Alabama, March 2016.

United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, January 16, 2018. Operating Procedure for Design and Installation of Monitoring Wells. SESDGUID-101-R2.

United States Environmental Protection Agency, Region 4 Laboratory Services and Applied Science Division, June 22, 2020. Operating Procedure for Field Equipment Cleaning and Decontamination. LSASDPROC-205-R4.

TABLE

**TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION**

Well	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Top of Casing Elevation (ft NAVD88) ⁽²⁾	Ground Surface Elevation (ft NAVD88) ⁽²⁾	Top of Screen Elevation (ft NAVD88) ⁽²⁾	Screen Bottom Elevation (ft NAVD88) ⁽²⁾	Screen Length (feet)	Total Boring Depth on Construction Log (ft below land surface)	Total Well Depth Measured (ft below TOC) ⁽³⁾	Groundwater Zone Screened	Location
GWA-3A	3/16/2021	1502374.48	2072061.21	731.68	728.68	601.88	591.88	10.0	139.50	140.27	Overburden	Upgradient





Notes:

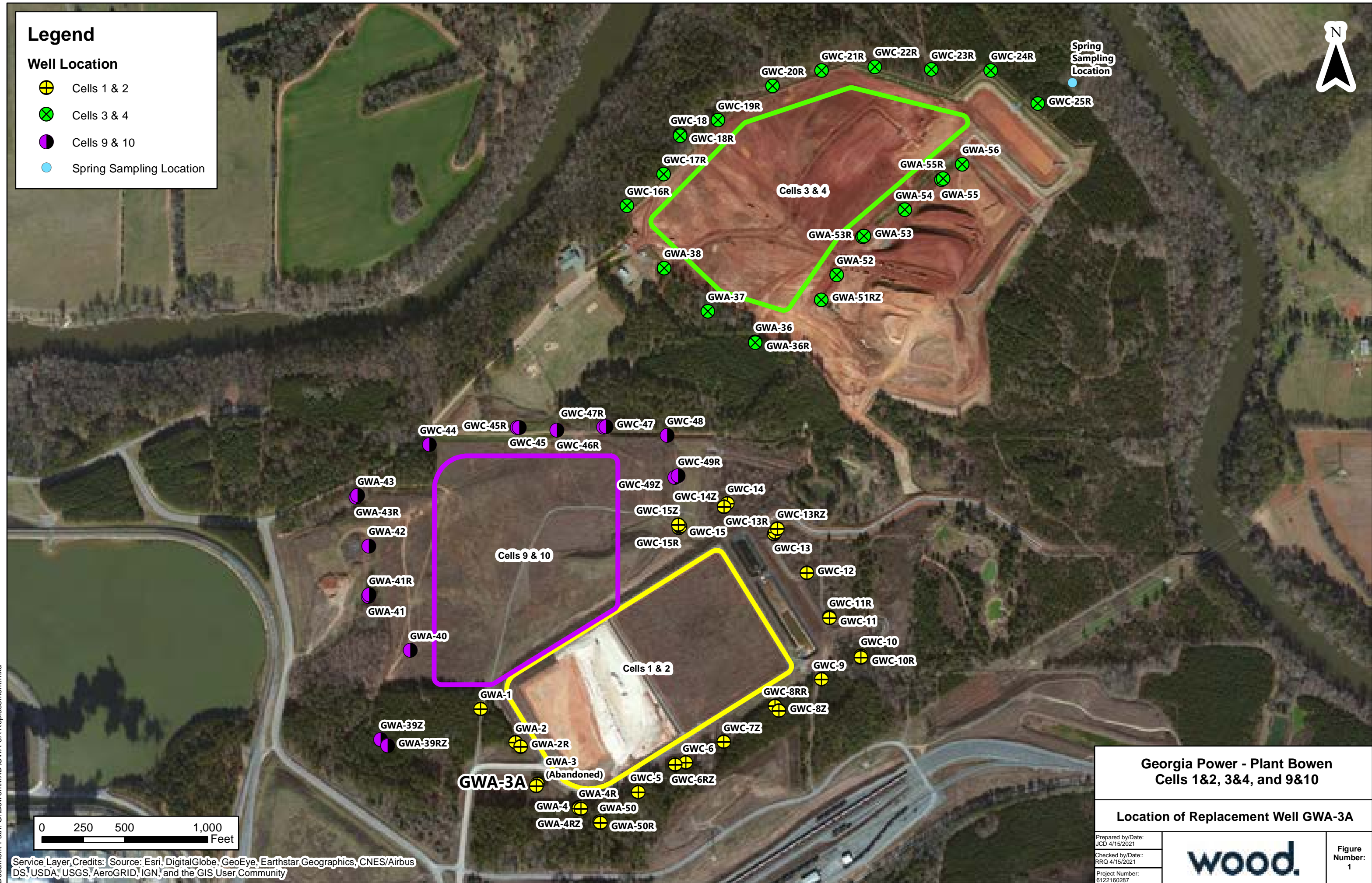
1. Horizontal locations referenced to Georgia State Plane West, North American Datum of 1983 (NAD83). Survey completed by Donaldson & Garrett Associates, Inc., obtained March 23, 2021.
2. Elevations in feet referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by Donaldson & Garrett Associates, Inc., obtained March 23, 2021.
3. TOC indicates top of casing


FIGURE

Legend

Well Location

-  Cells 1 & 2
-  Cells 3 & 4
-  Cells 9 & 10
-  Spring Sampling Location



Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10		
Location of Replacement Well GWA-3A		
Prepared by/Date: JCD 4/15/2021		Figure Number: 1
Checked by/Date: RRQ 4/15/2021		
Project Number: 6122160287		

Document Path: G:\Bowen\MXD\GWA-3A Replacement.mxd

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

APPENDIX A

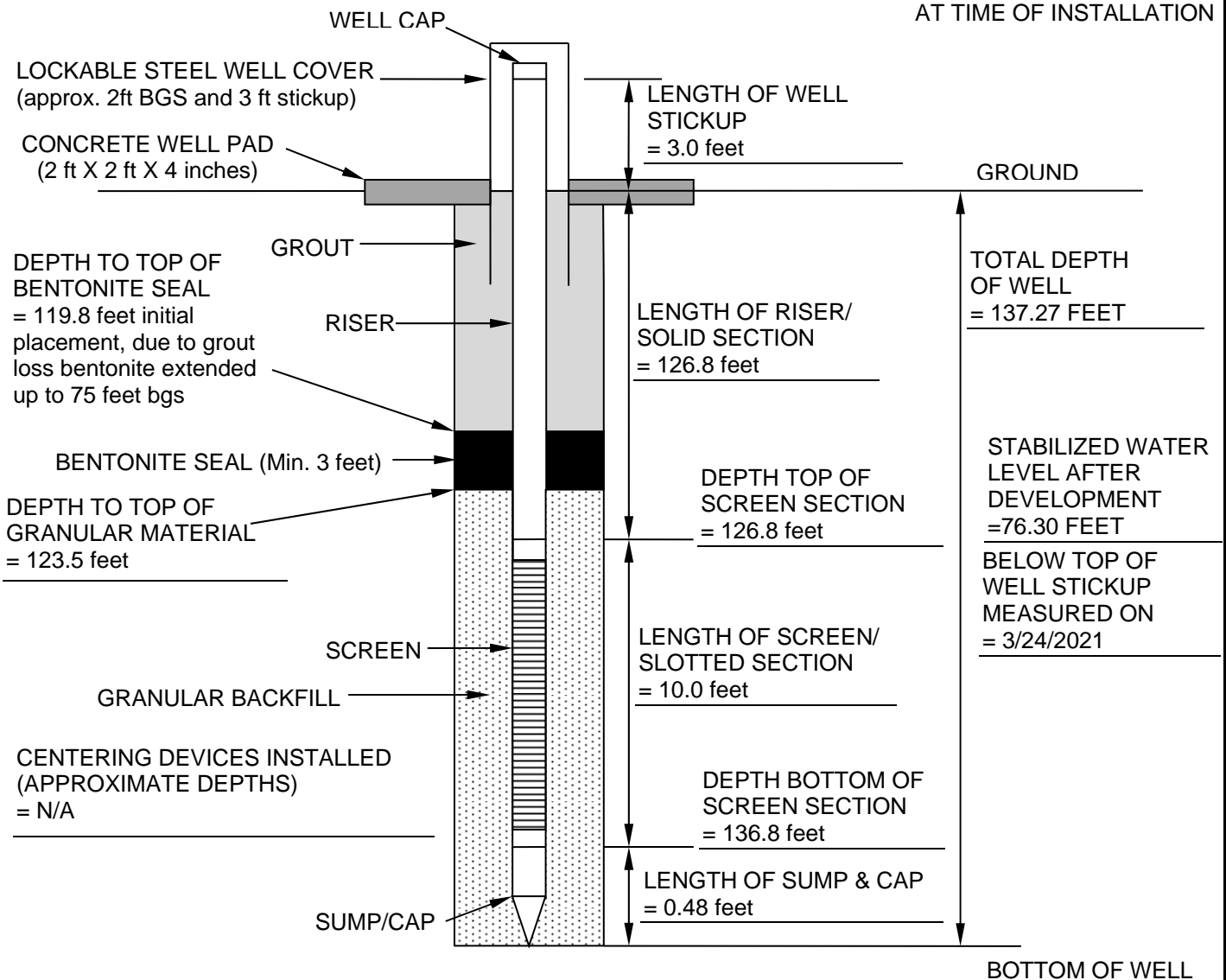
WELL CONSTRUCTION AND BORING LOGS

WELL INSTALLATION RECORD

JOB NAME Plant Bowen Cells 1 & 2	PROJECT NO. 6122-16-0287
WELL NUMBER GWA-3A	INSTALLATION DATE 3/16/2021
LOCATION* NORTH: 1502374.48 EAST: 2072061.21	GROUND ELEV: 728.68 feet NAVD88
WOOD FIELD REPRESENTATIVE A. Shoredits	DRILLER/ CONTRACTOR Cascade
GRANULAR BACKFILL MATERIAL #1 Silica Filter Sand	DRILLING TECHNIQUE Rotosonic
SCREEN MATERIAL 2-inch I.D. Flush Joint Slotted PVC (Sch. 40)	BOREHOLE DIAMETER ± 6 inch
SLOT SIZE 0.010-inch Machine Cut	REFERENCE POINT** ELEVATION* 731.68 ft NAVD88
RISER MATERIAL 2-inch I.D. Flush joint Solid PVC (Sch. 40)	LOCK TYPE/KEY CODE Master

* Preliminary-Final location/elevation to be determined by As-Built Survey
 ** Reference point is notch cut in the top of PVC casing

NOTE: NOT TO SCALE, ALL DEPTHS RECORDED ARE RELATIVE TO EXISTING GROUND SURFACE AT TIME OF INSTALLATION



Notes:
 Sand – 6.5 bags of #1 fine sand for well sump, prepack & screen interval
 Bentonite – 1 bag 3/8" chips for well sump; 1 bucket 1/2" uncoated pellets for plug; 8 bags of chips added to plug; 2 bags of chips to above pad
 Grout – 13.5 bags of bentonite mix with ~350 gals water

Review: RNQ Date: 4/13/2021

Well Installation Record GWA-3A



GWA-3A BORING LOG

PROJECT NUMBER 6122160287.2101	DRILLING COMPANY Cascade Drilling	COORDINATES N 1502374.48, E 2072061.21
PROJECT NAME Plant Bowen	DRILLER D. Myles	COORD SYS Ga State Plane West (NAD 83)
CLIENT Georgia Power	RIG TYPE/ METHOD TSI CC150/ SONIC	COMPLETION Stick-up w/ protective casing
ADDRESS 317 Covered Bridge Rd SW	CASING DIA. 6-in Outer/ 4-in Inner	SURFACE ELEVATION 728.68 ft NAVD88
LOCATION Gypsum Landfill Cells 1 & 2	BORING DEPTH 139.5 ft	WELL TOC 731.68 ft NAVD88

COMMENTS Start drilling 2/17/2021 and drilling completed 2/18/2021. Well construction completed on 3/16/2021 with installation of well cover and concrete pad. **LOGGED BY** A. Shoredits
CHECKED BY R. Quinn

Depth (ft)	Samples	% Recovery	Sample Run	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
0-2	0-10		1	[Cross-hatch pattern]	Backfill: Clayey SAND, brown/ orange, med. dense, moist, fine gravel, fragments of plastic sheeting	SC	[Well Diagram: Diagonal lines, Bentonite plug]	726
2-4								724
4-6								722
6-8								720
8-10								718
10-12	10-20		2	[Diagonal lines]	CLAY, red, v. stiff, low plasticity, dry SAND seam 10-10.1 ft, light brown, med. dense, moist	CL		716
12-14								714
14-16								712
16-18					Clayey SILT, red/ yellow, med. dense, dry, coarse gravel, rounded to sub-rounded quartz, relic laminated texture, variable clay content throughout Sandy seam 30-30.7 ft, green/ tan	ML-SC		710
18-20								708
20-22	20-30		3	[Dotted pattern]				706
22-24								704
24-26								702
26-28								700
28-30								698
30-32	30-40		4	[Dotted pattern]				696
32-34								694
34-36							[Well Diagram: Diagonal lines, Bentonite grout mix]	692
36-38								690
38-40					Silty CLAY, orange/ white/ yellow/ tan/ red, v. stiff, med. plasticity, moist, trace coarse gravel throughout, sub-rounded quartz, relic saprolite texture White carbonate seam 36.9-37.1 ft & 43.5 ft Coarse gravel seam @ 40.1 ft, 41.5 ft	CL		688
40-42	40-50		5	[Diagonal lines]				686
42-44								684
44-46								682
46-48					Clayey SILT, red, dense, dry, coarse gravel, rounded to sub-rounded quartz	ML-SC		680

Depth (ft)	Samples	% Recovery	Sample Run	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
50	50-60		6		Silty CLAY, orange/ white/ yellow, stiff, med. and high plasticity, dry, sub-rounded fine quartz gravel	CL-CH		678
52					Wht carbonate clay 52.8-53.3 ft, coarse angular carbonate gravel inclusions 50-53.3 ft			676
54					CLAY with silt, red/ orange/ yellow, stiff, med. plasticity, dry, rounded to sub-rounded gravel	CL		674
56					CLAY, red/ orange/ white/ yellow/ tan, v. stiff, high plasticity, dry, relic saprolite texture/ laminations, rounded to sub-rounded gravel	CH		672
58					No sample			670
60	60-70		7		CLAY with sand, brown/ white/ red, stiff, med. plasticity, moist, white chert gravel inclusions (fine, sub-angular), relic saprolite structure/ laminations	CL-SC		668
62								666
64					SILT w/ clay, white, med. dense, (non-plastic), dry, chalky, dolomitic	ML CL-CH		664
66					Silty CLAY, brown/ white/ red/ yellow, stiff, high plasticity, moist, relic saprolite structure			662
68					No sample			660
70	70-80		8		SILT with clay, yellow, med. dense, (non-plastic), dry	ML		658
72					Wht chalky dolomitic 71.1-71.5 ft			656
74					Clayey SILT, white/ red/ yellow, med. dense, (slight plasticity), dry to moist	ML-CL		654
76					Chert lens @ 81.2 ft			652
78								650
80	80-90		9		SILT with clay, white, med. dense, (non-plastic), dry, chalky, dolomitic	ML		648
82								646
84					Chert lens 85.3-86 ft			644
86					Clayey SILT, yellow/ white/ red, med. dense, (slight plasticity), moist, chert lens @ 86.8 ft	ML-CL		642
88					SILT with clay, white, med. dense, (non-plastic), dry, trace chalky dolomite	ML		640
90	90-100		10		Clayey SILT, yellow/ white/ red, med. dense, (slight plasticity), moist, white fine gravel inclusions	ML-CL		638
92					Clayey SILT, tan/ white, med. dense to dense, (med. plasticity), moist, variable clay content, chert lenses throughout	ML-SC		636
94					Dark brown chert lens @ 90-90.3 ft			634
96					Solid chert cobble @ 91.6-91.9 ft			632
98								630
100	100-110		11		Coarse gravel, sub-angular chert in interval of 100-110 ft			628
102								626
104								624
106								622
108								620

Depth (ft)	Samples	% Recovery	Sample Run	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
110	110-120		12		No sample from 110-130 ft			618
112					Thin resistant layer (rock) encountered and broken through @ ~125 ft			616
114								614
116								612
118								610
120	120-130		13					608
122								606
124								604
126								602
128		600						
130	130-140		14		Clayey SILT, yellow/ brown, loose, (low plasticity), wet, coarse angular gravel inclusions, sub-angular quartz, angular	ML-SC		598
132						596		
134					Silty SAND with clay, dark grey/ tan/ dark brown, v. dense, moist, gravelly, weathered and fractured rock (tan/grey sand mixed with coarse chert gravel)	SM-SC		594
136					Competent carbonate/ dolomite rock			592
138					Silty SAND with clay (same as 133-135 ft), dark grey/ tan/ yellow, v. dense, moist, gravelly	SM-SC		590
140					Drilling terminated @ 139.5 ft due to carbonate rock encountered at 135 ft			588
142					Well set at 137.3 feet below ground surface			586
144					Screened interval: 126.8-136.8 ft			584
146					Bentonite pellets placed from 75 -123.5 ft due to loss of grout.			582
148					Well completed with a stickup protective cover and bollards.			580
150								578
152								576
154								574
156								572
158								570
160								568
162								566
164								564
166								562
168								560

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, LP.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

Issued on 9/27/2017
Expires on 6/30/2019
Renewed on 3/4/2019
Expires on 6/30/2021

does hereby continue said bond in force for the further period

beginning on 06/30/2019
(MONTH-DAY-YEAR)

and ending on 06/30/2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium: \$1200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as heretofore set forth.

Signed and dated on March 4th, 2019
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

APPENDIX B

WELL DEVELOPMENT FORMS

Low-Flow Test Report:

Test Date / Time: 3/24/2021 9:55:19 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-3A WD Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 130.27 ft Total Depth: 140.27 ft Initial Depth to Water: 77.28 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 135.27 ft Estimated Total Volume Pumped: 105200 ml Flow Cell Volume: 90 ml Final Flow Rate: 800 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
--	---	--

Test Notes:

Prepurged 560 L between 3/23/21 and today.

Lowered pump rate to 800 mL/min at 44:00 to lower turbidity. Turbidity fell below 10 NTU, completing well development.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 9:55 AM	00:00	7.98 pH	16.05 °C	162.18 µS/cm	9.59 mg/L	25.70 NTU	57.4 mV	77.80 ft	0.08 PSU	1,300.0 ml/min
3/24/2021 9:59 AM	04:00	8.01 pH	16.05 °C	160.97 µS/cm	9.46 mg/L	23.80 NTU	47.7 mV	77.80 ft	0.08 PSU	1,300.0 ml/min
3/24/2021 10:03 AM	08:00	8.02 pH	16.06 °C	160.72 µS/cm	9.50 mg/L	25.30 NTU	45.7 mV	77.80 ft	0.08 PSU	1,300.0 ml/min
3/24/2021 10:07 AM	12:00	8.03 pH	16.07 °C	158.21 µS/cm	9.47 mg/L	25.20 NTU	43.8 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:11 AM	16:00	8.03 pH	16.07 °C	158.94 µS/cm	9.48 mg/L	27.70 NTU	43.0 mV	77.80 ft	0.08 PSU	1,300.0 ml/min
3/24/2021 10:15 AM	20:00	8.03 pH	16.07 °C	158.05 µS/cm	9.58 mg/L	33.00 NTU	42.5 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:19 AM	24:00	8.02 pH	16.10 °C	156.95 µS/cm	9.54 mg/L	29.30 NTU	41.9 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:23 AM	28:00	8.00 pH	16.11 °C	157.20 µS/cm	9.70 mg/L	32.80 NTU	41.9 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:27 AM	32:00	7.98 pH	16.16 °C	156.44 µS/cm	9.54 mg/L	26.30 NTU	41.4 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:31 AM	36:00	7.99 pH	16.18 °C	156.34 µS/cm	9.64 mg/L	31.40 NTU	40.8 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:35 AM	40:00	8.00 pH	16.15 °C	156.92 µS/cm	9.68 mg/L	28.90 NTU	39.6 mV	77.80 ft	0.07 PSU	1,300.0 ml/min
3/24/2021 10:39 AM	44:00	8.00 pH	16.18 °C	155.39 µS/cm	9.67 mg/L	29.80 NTU	38.9 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 10:43 AM	48:00	8.01 pH	16.16 °C	155.30 µS/cm	9.40 mg/L	30.70 NTU	38.4 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 10:47 AM	52:00	8.01 pH	16.20 °C	156.27 µS/cm	9.33 mg/L	26.40 NTU	37.9 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 10:51 AM	56:00	8.01 pH	16.22 °C	155.75 µS/cm	9.31 mg/L	15.10 NTU	37.5 mV	77.70 ft	0.07 PSU	800.00 ml/min

3/24/2021 10:55 AM	01:00:00	8.01 pH	16.20 °C	155.38 µS/cm	9.29 mg/L	25.10 NTU	37.4 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 10:59 AM	01:04:00	8.02 pH	16.20 °C	155.45 µS/cm	9.30 mg/L	21.90 NTU	37.0 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:03 AM	01:08:00	7.99 pH	16.24 °C	154.40 µS/cm	9.30 mg/L	9.85 NTU	37.0 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:07 AM	01:12:00	7.98 pH	16.29 °C	155.79 µS/cm	9.29 mg/L	8.84 NTU	37.9 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:11 AM	01:16:00	7.97 pH	16.33 °C	154.17 µS/cm	9.28 mg/L	10.80 NTU	37.0 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:15 AM	01:20:00	7.98 pH	16.33 °C	154.60 µS/cm	9.29 mg/L	10.10 NTU	36.5 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:19 AM	01:24:00	7.99 pH	16.35 °C	153.90 µS/cm	9.31 mg/L	12.40 NTU	36.0 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:23 AM	01:28:00	7.99 pH	16.35 °C	153.56 µS/cm	9.30 mg/L	8.18 NTU	35.3 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:27 AM	01:32:00	8.00 pH	16.31 °C	154.44 µS/cm	9.35 mg/L	16.00 NTU	35.2 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:31 AM	01:36:00	8.01 pH	16.29 °C	155.25 µS/cm	9.39 mg/L	28.30 NTU	35.3 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:35 AM	01:40:00	8.00 pH	16.31 °C	154.78 µS/cm	9.43 mg/L	10.17 NTU	35.1 mV	77.70 ft	0.07 PSU	800.00 ml/min
3/24/2021 11:39 AM	01:44:00	8.00 pH	16.33 °C	153.20 µS/cm	9.47 mg/L	9.36 NTU	34.2 mV	77.70 ft	0.07 PSU	800.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX C

WELL SURVEY DOCUMENTS

WELLS INC.
 PHONE NUMBER: 606-338-1111
MONITORING WELL SURVEY DATA
 March 23, 2021
 DGA WITH 4620-001-01, C 1 MPY

WELL ID	NONTRIP	LASTING	ELEVATIONS			
			UPPER	MID	DOWN	TOTAL
			FEET	IN CONCRETE	WELL HEAD	WATER
GWA 808	1507285.7 21	2073501.74	678.96	678.13		701.92
GWA 82	1507282.2 17	2073526.15	678.68	678.64		702.09
GWA 602	1507292.00	2072900.50	728.66	729.87		731.94
GWA 72	1507280.13	2073323.22	709.20	710.00		711.04
GWA 61	1507220.08	2072962.89	725.82		726.32	728.64
GWA 5	1507241.56	2072622.44	715.13		715.19	717.56
GWA 80	1507278.88	2072101.21	728.68	728.24		731.61
GWA 402	1507218.85	2072129.55	740.04	740.34		742.88
GWA 8	1507201.02	2072138.24	740.40		740.52	741.04
GWA 48	1507206.11	2072112.25	739.65	739.82		741.21
GWA 50	1507254.80	2072442.13	728.24		728.84	731.21
GWA 508	1507261.85	2072448.25	727.82		728.01	730.12
SPRING WELLS	1507242.00	2072142.14	672.83			
GWA 258	1507420.89	2075088.90	621.59		621.91	646.82
GWA 688	1507401.44	2072029.82	718.92	719.2		721.26
GWA 118	1507106.70	2072922.28	718.52	719.12		721.88
GWA 682	1507168.23	2071316.20	729.52	730.1		742.62
GWA 102	1507265.66	2071128.65	711.82	712.09		715.15
GWA 1002	1507226.20	2071512.46	681.21	682.00		684.61
GWA 148	1507208.53	2071501.95	681.12		681.22	681.92
GWA 11	1507191.17	2071495.16	680.19		680.62	686.26
GWA 12	1507142.54	2071821.61	674.66		675	677.25
GWA 118	1507195.25	2071828.81	675.08		675.14	677.24
GWA 11	1507193.40	2071829.25	675.04		675.05	677.34
GWA 108	1507156.13	2072022.44	685.13		685.25	687.95
GWA 10	1507162.20	2072019.96	688.89		688.89	689.82
GWA 9	1507024.76	2071741.05	692.52		691.91	698.62
GWA 28	1507015.18	2071960.22	712.16		712.26	714.11
GWA 2	1507040.55	2071915.13	712.48		711.91	713.89
GWA 1	1507042.29	2071724.15	718.85		718.29	741.26
GWA 80	1507025.04	2071729.08	728.93	728.92		731.22
GWA 418	1507022.12	2071050.84	712.95	713.14		715.08
GWA 41	1507014.02	2071046.18	718.91	719.12		742.51
GWA 42	1507021.14	2071040.95	714.85	715.11		738.05
GWA 418	1507112.12	2070921.14	702.60	701.14		711.14
GWA 84	1507029.20	2070927.88	702.62	702.93		710.24
GWA 44	1507046.66	2071414.10	710.15	710.14		712.89

POINT NO.	Easting	Northing	Offset X	Offset Y	Point Description
GWPC-41R	1504438.00	2072194.19	0.00	0.00	
GWPC-41R	1504432.24	2072188.42	0.00	0.00	
GWPC-42R	1504439.25	2072467.10	0.00	0.00	
GWPC-43R	1504439.04	2072481.34	0.00	0.00	
GWPC-43R	1504439.04	2072394.71	0.00	0.00	
GWPC-43Z	1504438.10	2072396.44	0.00	0.00	
GWPC-43H	1504446.02	2072718.76	0.00	0.00	
GWPC-43H	1504436.17	2072712.14	0.00	0.00	0.00
GWPC-44	1504441.04	2072722.57	0.00	0.00	0.00
GWPC-45Z	1504452.26	2072918.73	0.00	0.00	
GWPC-46Z	1504460.77	2073174.66	0.00	0.00	
GWPC-46	1504459.92	2073205.96	0.00	0.00	0.00
GWPC-46H	1504462.72	2073186.87	0.00	0.00	0.00
GWPC-46	1504457.22	2073184.01	0.00	0.00	0.00
GWPC-47	1504465.45	2073069.12	0.00	0.00	
GWPC-48	1504461.33	2072831.77	0.00	0.00	
GWPC-48R	1504469.13	2072806.11	0.00	0.00	
GWPC-48R	1504477.86	2072607.38	0.00	0.00	
GWPC-47R	1504469.29	2072629.29	0.00	0.00	
GWPC-48R	1504495.96	2073158.16	0.00	0.00	
GWPC-48R	1504482.13	2073486.53	0.00	0.00	
GWPC-47R	1504495.89	2073784.42	0.00	0.00	
GWPC-47R	1504472.91	2074105.65	0.00	0.00	
GWPC-49R	1504470.01	2074446.53	0.00	0.00	
GWPC-49	1504478.18	2074644.18	0.00	0.00	
GWPC-49R	1504481.22	2074512.62	0.00	0.00	
GWPC-49	1504463.62	2074502.04	0.00	0.00	
GWPC-49	1504483.11	2074286.28	0.00	0.00	
GWPC-49	1504487.52	2074038.00	0.00	0.00	
GWPC-49R	1504489.06	2074032.00	0.00	0.00	
GWPC-49	1504497.85	2073826.00	0.00	0.00	
GWPC-49R	1504490.48	2073781.14	0.00	0.00	

COORDINATE AND ELEVATION DATA FROM NAVD 83
 ELEVATIONS ARE BASED ON NAVD 83

Survey data shown below has a horizontal positional tolerance of +/- 0.01 feet and a vertical positional tolerance of +/- 0.01 feet at the 95% level of confidence.
 Equipment used to obtain horizontal and vertical coordinates was a LEICA SYSTEM 1200 GPS RECEIVER WITH A LEICA RX1200 DATA COLLECTOR.
 Benchmark used to establish horizontal and vertical positions was established from LEICA SMARTNET REAL TIME NETWORK.



APPENDIX D

WELL ABANDONMENT DOCUMENTS



Well Abandonment Record

WELL NO.: GWA-3
PROJECT NAME: Plant Bowen
PROJECT NO: 6122160287
FINISH DATE: 02/19/2021

Name of Property Owner: Georgia Power
Address of Property: 317 Covered Bridge Rd SW, Euharlee, Ga 30120
Type of Well Installation Method: HSA with 8-inch auger

Date of Well Installation: 04/11/2007
Original Purpose of Well Installation: Groundwater monitoring
Total Depth of Well (measured from Top of Riser): 95.36 ft bgs
Top of Riser Height (above/below ground surface): 2.55 ft above ground surface
Well Diameter (nominal) and Material Type: 2-inch Sch 40 PVC
Screen Slot Size and Opening Type: 10-slot (0.010 inch)
Screen Length and Backfill Material: 85.06-95.06 ft bgs (10 ft); sand
Depth to Water/Date (measured from Top of Riser): 61.65 ft btoc
Screened Formation or Aquifer Type: Dolostone overburden
Description of Well Abandonment Method: Grout in place
Calculated Well Volume ($\pi r^2 L \times 7.4805$): 62 gal
Type and Volume of Materials Used to Plug Well: Approximately 15 gallons of a bentonite grout mixture.
Riser and/or Screen Length Removed or Left in Place: Upper 5 feet of casing removed, remaining casing was grouted in place.
Drilling Contractor: Cascade Drilling Driller's Name: Donald Myles

Additional Notes

Approximately 1 bucket of bentonite pellets (PEL-PLUG, 1/2" non-coated, PDS brand) initially added to seal screened interval. Top of hydrated bentonite was initially measured for assurance of correct fill elevation.

For the grout-bentonite mixture: 1/2 bag of AQUAGUARD (Baroid Industrial Drilling Products, 50 lbs per bag) was mixed with 6-8 gallons of water and the mixture was injected into the well using the tremie method

Wood Field Representative: Andreas Shoredits

Groundwater Monitoring Well Installation and Abandonment Report

Georgia Power Company – Plant Bowen

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

Project No.: 6122160287

Prepared for:



Atlanta, Georgia

8/31/2021

Professional Groundwater 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 groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565



Andreas Shoredits, P.G.
Registered Professional Geologist
Georgia Registration No. 2310

Date: August 31, 2021



Date: August 31, 2021



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Appendix B	Well Construction and Boring Logs
Appendix C	Well Development Forms
Appendix D	Well Abandonment Document

1.0 INTRODUCTION

Georgia Power's Plant Bowen solid waste disposal facility (Site) is located in 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 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). 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 1: Location of Replacement Well GWA-36RA**.

During the September 2020 and March 2021 sampling events at Cells 3 & 4, existing upgradient bedrock monitoring well GWA-36R had elevated turbidity of greater than 1000 Nephelometric Turbidity Units (NTUs). The well was re-developed one to two times during the last two events and the turbidity decreased to less than 10 NTUs. However, the turbidity would increase again after each sampling event.

A downhole camera investigation was not successful in identifying the cause of the turbidity because water column was turbid after removing the pump and transducer equipment from the well. The turbidity did not settle out of the water column after the well sat undisturbed for a day. The existing well GWA-36R was abandoned and new replacement well GWA-36RA was installed with the purpose of functioning as an upgradient monitoring well screened in bedrock for Cells 3 & 4.

This report provides details for the drilling and installation of monitoring well GWA-36RA installed in June and July 2021. The well construction details are included in **Table 1: Summary of Monitoring Well Construction** and its location is shown in **Figure 1**. The surveyed coordinates and elevations of the well are provided in a certified well survey report in **Appendix A: Well Survey Document**. The abandonment of existing upgradient bedrock well GWA-36R is also presented in this report.

2.0 DRILLING AND WELL INSTALLATION

The following sections provide details and description of drilling methodology, materials and installation procedures used in constructing the monitoring well GWA-36RA. Monitoring well construction details are summarized in **Table 1**.

2.1 Drilling Method

Wood provided oversight and documented the drilling and installation of monitoring well GWA-36RA by Cascade Drilling, under contract with Southern Company, from June 29 through July 2, 2021. A copy of the Water Well Contractor's performance bond is provided in **Appendix B: Well Construction and Boring Logs**. The drilling was performed using roto-sonic technology with a Terra Sonic, compact, track-mounted drill rig. An air knife was used to excavate the upper 10 feet of the well location to provide clearance of potential underground utilities.

Following subsurface clearance, a 4-inch diameter sampling core barrel and tooling, followed by a 6-inch override (outer) casing, was advanced via sonic methodology to a final depth of 109.5 feet (572.8 feet above North America Vertical Datum of 1988 (NAVD88)) for the purpose of collecting soil and rock for lithologic characterization and subsequent well installation. Soil and/or rock were collected continuously, in core runs up to 10 feet, from near the ground surface to the boring termination depth. Upon completion of a core run, prior to retracting the core barrel, 6-inch override (outer) casing was advanced over the 4-inch core barrel and tooling to maintain borehole integrity. Once the override casing was in place, the core barrel was retracted from the borehole and the soil and/or rock sample were extruded into a plastic sleeve and provided to the Wood field geologist for characterization, documentation, photographing, and archival in wooden sample storage boxes (see **Appendix B: Well Construction and Boring Logs**). After sample retrieval, the core barrel was advanced, and another core run was completed. This process was continued until the target depth was reached where bedrock was encountered.

Upon reaching the target depth, the 6-inch override casing was used to flush/clean-out the borehole and left in place for well construction. The well was installed directly through the override casing. The screen and casing (riser) were placed in the override casing and the annular space was filled (i.e., emplacement of the filter pack, bentonite, and grout) as the override casing was retracted.

2.2 Screened Interval

Well GWA-36RA is screened 31 feet into bedrock and was constructed with 10 feet of slotted screen as shown in the Well Construction Log provided in **Appendix B**. The former well,

GWA-36R, was constructed with a screened interval depth of 75.7 to 85.7 feet below ground surface (bgs) (595.7-605.7 feet, NAVD88) which was a shallower elevation than GWA-36RA screened interval (573.26-583.26 feet, NAVD88). Well GWA-36RA was installed to a greater depth due to the depth to bedrock being deeper at the new well location than the GWA-36R location.

2.3 Well Casing and Screens

The monitoring well is constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing (riser) and pre-packed Number 10 slot (0.010-inch aperture) screen. The pre-pack screens are comprised of a 10-foot-long section of slotted PVC “U-pack” pre-pack screen. Each pre-pack screen used in the construction of the well was manually filled with sand and then attached to the riser section of the well casing. Well construction materials are designed to be sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. The casing and screen sections were flush-threaded and did not require the use of solvent or adhesive to construct the well.

The well was designed and constructed to:

- 1) allow sufficient groundwater flow to the well for sampling;
- 2) minimize the passage of formation materials (turbidity) into the well; and,
- 3) ensure sufficient structural integrity to prevent collapse of the well.

2.4 Filter Pack

The filter pack material is designed to be chemically inert, clean, well-graded, well-rounded, dimensionally stable, silica (quartz) sand of which the 80 to 90 percent retained size is 0.010-inch diameter (the screen aperture). The filter pack sand used for the construction of the monitoring well was the #1 filter sand from Southern Products & Silica Co. The filter pack material was emplaced in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. The filter pack was extended approximately three feet above the top of the screen. After installing the filter pack, the well was pumped to allow settlement of the filter pack material, prior to installing the annular seal. The filter pack depth/interval is documented in well construction log provided in **Appendix B**.

2.5 Annular Seal

After installing the filter pack, a bentonite seal was constructed to a thickness coinciding with the observed elevation of the top of bedrock during drilling. Approximately nineteen feet of bentonite pellets were emplaced in the annular space directly above the filter pack to seal the annulus and prevent vertical flow of water along the well casing. The bentonite pellets were

placed from the top of the filter pack to the top of the bedrock. The bentonite used for the construction of the well was 3/8-inch, non-coated pellets (PDS Pel-Plug). The bentonite pellets were allowed to hydrate at least 24-hours and settle in accordance with the manufacturer's recommendations prior to adding more well sealing materials into the annular space above the pellets. The bentonite seal was subsequently extended from the top of bedrock to the top of the water table at approximately 25 feet below ground surface by the addition of 3/8-inch bentonite chips (Haliburton Hole-plug). The bentonite chips were hydrated.

After the bentonite chips were adequately hydrated, the remaining annular space was sealed using AQUAGUARD by Baroid Industrial Drilling Products, a sodium bentonite blended grout. The grout was prepared in accordance with manufacturer's instructions and emplaced from the top of the bentonite seal to the near ground surface via tremie method. The grout was injected at a low velocity as to not displace the bentonite seal and the tremie pipe was raised as grout filled the annular space. Grout was injected via tremie method from a depth of 25 feet to within two feet of ground surface.

A concrete seal extends from approximately two feet below ground surface to grade and was formed into a slightly mounded cement apron extending outward to help direct rainwater run-off away from the well. The well pad dimensions were 4 feet by 4 feet with a thickness of 4 inches.

2.7 Cap and Protective Casing

Well GWA-36RA was fitted with a sealable cap and a lockable, 4-inch square, steel, above-grade (stick-up) protective casing installed over the well to protect the PVC riser from damage and secure it from unauthorized access. The annular space between the well riser and protective casing was filled with pea-size gravel and a small weephole was drilled near the base to allow for drainage from inside the protective casing. Additionally, bollards were installed at the corners of the concrete pad to protect the well. Prior to leaving the site, each well was secured with a padlock, keyed specific to the site (Master, 2246 key). Well construction details are documented in **Appendix B**.

3.0 WELL DEVELOPMENT

GWA-36RA was developed using an electric submersible pump to restore the natural hydraulic conductivity of the formation and to remove fine-grained sediment to help ensure low-turbidity groundwater samples. The well was alternately surged and purged until visually clear of particulates. Groundwater quality parameters turbidity, pH, specific conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were monitored for stabilization during development to verify that the well was adequately developed.

Development of the groundwater monitoring well continued until criteria indicating adequate development was achieved. Development is generally recognized as being complete when the well yields water with a turbidity less than 10 Nephelometric Turbidity Units (NTU) and the pH and specific conductivity has stabilized (i.e., pH within 0.1 standard unit and specific conductivity within 3% over three consecutive measurements). The development forms are included in **Appendix C: Well Development Forms**.

Prior to deploying the development pump into the well, the pump was decontaminated and fitted with new disposable tubing. New disposable, nitrile gloves were worn throughout the development process, including when initially deploying the pump, handling the pump and tubing while surging, and during decontamination activities.

4.0 SURVEY

Well location, top of casing (TOC) elevation, and ground surface elevation were surveyed by Donaldson Garrett & Associates, Inc. Northings and easting are in feet relative to Georgia State Plane, West Zone, North America Datum of 1983 (NAD 83) and surveyed with a horizontal accuracy of 0.5 feet. TOC and ground surface elevations are in feet relative to North American Vertical Datum of 1988 (NAVD 88) and surveyed with a vertical accuracy of 0.01 feet. Survey data are included in **Table 1**. Well survey documents are provided in **Appendix A: Well Survey Documents**.

5.0 WELL ABANDONMENT

Well GWA-36R was abandoned following EPA Region 4 guidance for grouting-in-place procedures. The screened interval of the well up to the overburden-bedrock interface depth was filled in with bentonite pellets and hydrated. The riser portion of the well casing above the overburden-bedrock interface was over-drilled and the casing removed. The overdrilled interval was filled with bentonite chips up to the water table and a bentonite grout mixture was emplaced up to ground surface utilizing the tremie method. Grouting ceased when the grout mixture daylighted at the surface as visible grout. For details on the abandonment of GWA-36R, see **Appendix D: Well Abandonment Documents**.

6.0 GENERAL REFERENCES

Southern Company Services, Inc., 2016, Draft Monitoring Well Development Procedures, Birmingham, Alabama, March 2016.

United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, January 16, 2018. Operating Procedure for Design and Installation of Monitoring Wells. SESDGUID-101-R2.

United States Environmental Protection Agency, Region 4 Laboratory Services and Applied Science Division, June 22, 2020. Operating Procedure for Field Equipment Cleaning and Decontamination. LSASDPROC-205-R4.

TABLE

TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION
Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10
Bartow County, Georgia

Well	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Top of Casing Elevation (feet NAVD88)⁽²⁾	Ground Surface Elevation (feet NAVD88)⁽³⁾	Top of Screen Elevation (feet NAVD88)⁽³⁾	Bottom of Screen Elevation (feet NAVD88)⁽³⁾	Screen Length (feet)	Total Well Depth Measured at Development (feet below TOC)⁽⁴⁾	Groundwater Zone Screened
GWA-36RA	7/2/2021	1505060.13	2073365.45	684.50	682.26	583.26	573.26	10.0	111.64	Bedrock

Notes:

1. Horizontal locations referenced to Georgia State Plane West, North American Datum of 1983 (NAD 83)
2. Elevations are in feet referenced to North American Vertical Datum of 1988 (NAVD 88)
3. Screen elevations based on ground surface elevation
4. TOC indicates top of casing

FIGURE

Legend

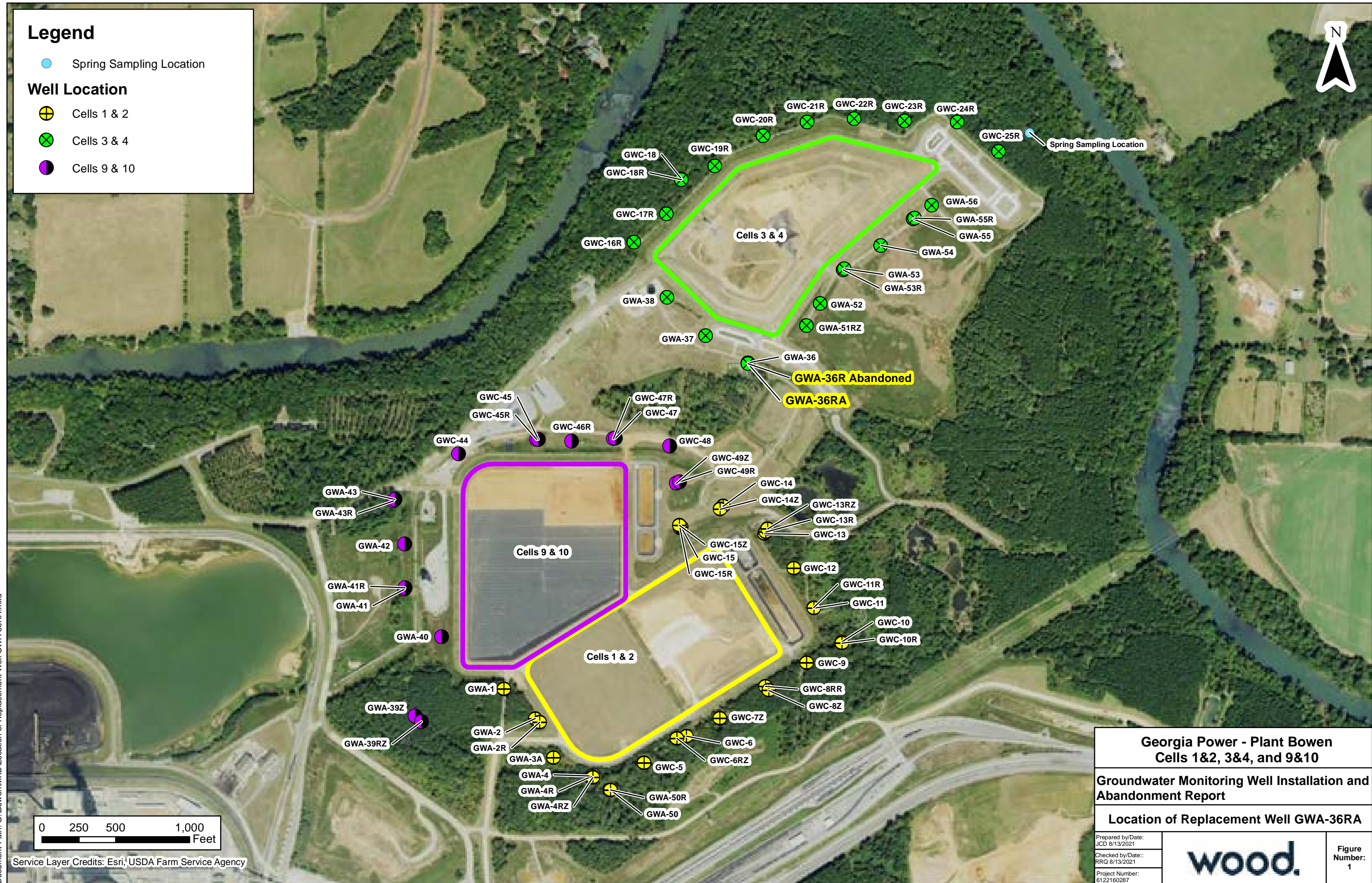
● Spring Sampling Location

Well Location

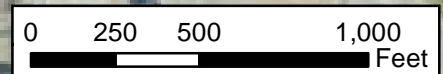
⊕ Cells 1 & 2

⊗ Cells 3 & 4

● Cells 9 & 10



Document Path: G:\Bowen\MXD\Location of Replacement Well GWA-36RA.mxd



Service Layer Credits: Esri, USDA Farm Service Agency

Georgia Power - Plant Bowen Cells 1&2, 3&4, and 9&10		
Groundwater Monitoring Well Installation and Abandonment Report		
Location of Replacement Well GWA-36RA		
Prepared by/Date: JCD 8/13/2021		Figure Number: 1
Checked by/Date: RRQ 8/13/2021		
Project Number: 6122160287		

APPENDIX A

WELL SURVEY DOCUMENT

4000 P.L.2
 Part 5000-00000-00
 MONITORING WELL SURVEY DATA
 1/11/2005
 OGAUCHI 19625-00000-0000

WELL ID	NORTHING	EASTING	ELEVATIONS			
			GROUND ELEVATION	WALL TO CONCRETE	TOP OF REL. PVC	TOP OF CASING
001435A	1529261.13	2175381.43	541.25	541.51	541.51	541.51
COORDINATES ARE IN STATE PLANE, NAD 83, UTM 18 ELEVATIONS ARE BASED ON NAVD 83 DATUM						
Survey was done using a horizontal distance tolerance of +/- 0.05 feet and a vertical distance tolerance of +/- 0.01 feet at the 95% level of confidence. Equipment used to obtain horizontal and vertical coordinates was a LEICA DISTO TM100 GPS RECEIVER WITH A LEICA RANGEFINDER COLLECTOR. Bench mark used to establish horizontal and vertical position was established by LEICA GPS NETWORK REAL TIME NETWORK.						



APPENDIX B

WELL CONSTRUCTION AND BORING LOGS




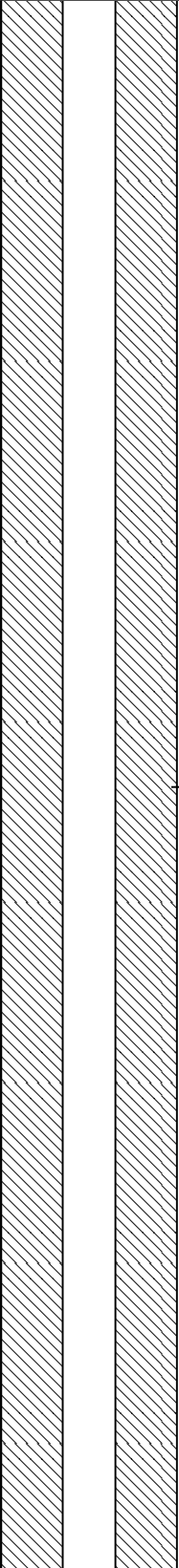

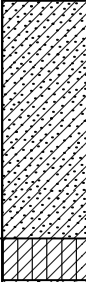
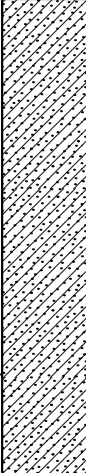
GWA-36RA BORING LOG

PROJECT NUMBER 6122160287 PROJECT NAME Plant Bowen CLIENT Georgia Power ADDRESS 317 Covered Bridge Rd., Euharlee GA	DRILLING COMPANY Cascade Drilling DRILLER C. Franklin RIG TYPE/ METHOD TSI CC150/ SONIC CASING DIA. 2-in I.D. PVC BORING DEPTH 109.5 ft	COORDINATES N 1505060.13, E 2073365.45 COORD SYS Ga State Plane West (NAD 83) COMPLETION Stick-up w/ protective casing SURFACE ELEVATION 682.26 ft NAVD 88 WELL TOC 684.50 ft NAVD 88
--	--	--

LOCATION Cells 3 & 4

COMMENTS Start drilling on 6/29/2021 and complete drilling on 6/30/2021. Well construction completed on 7/2/2021 with installation of well cover and concrete pad. **LOGGED BY** A. Shoredits
CHECKED BY J. Quinn

Depth (ft)	Samples	Sample Run (Recovery)	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
2	0-10	#1 (0%)		Air knife utility clearance No sample	-	Bentonite grout mix	680
4							678
6							676
8							674
10	10-20	#2 (56%)		No sample			672
12							670
14							668
16				Gravelly silty SAND with clay, red/grey/black, loose, dry, coarse angular chert	SW-SC		666
18				Gravelly silty SAND, tan/grey, very loose, dry	SM		664
20				CLAY with silts, yellow/umber/orange, medium stiff, slight plasticity, dry, some fine gravel	CL		662
22	20-30	#3 (100%)		CLAY, yellow/white/tan, soft, high plasticity, moist, chert fragments throughout, fine to coarse angular gravel	CH		660
24				21 ft cobble sized rounded chert			658
26							656
28							654
30						Bentonite seal (chips)	652
32	30-40	#4 (0%)		No recovery Drill casings did not appear to drop during drilling. Very soft clays and gravel are estimated to be present at 30-40 feet and were not retained in the sampling casing.	-		650

Depth (ft)	Samples	Sample Run (Recovery)	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
34							648
36							646
38							644
40	40-50	#5 (100%)		CLAY with gravels, fine to coarse grained, yellow/black/red, very soft, high plasticity, wet, angular dark grey/black chert throughout	CH		642
42							640
44							638
46							636
48	50-60	#6 (100%)		Sandy CLAY, purple/brown/red/brown, very stiff, low plasticity, moist, coarse to fine quartz gravel throughout, sub-angular to sub-rounded, some fine sand	CL		634
50					632		
52					630		
54					628		
56					626		
58	60-70	#7 (100%)		Gravelly SAND, fine to coarse grained, grey/brown, loose, wet	SW		622
60					620		
62					618		
64	70-80	#8 (80%)		Silty SAND, fine grained, yellow/tan/brown, loose, moist, relic decomposed sandstone texture with oxidation	SM-SP CL-GC		616
66					614		
68				Gravelly CLAY, dark brown/yellow, very soft, low plasticity, fine to coarse angular quartz gravel			612
70				CLAY with gravels, brown/tan/orange, soft to medium stiff, medium to high plasticity, moist, coarse sub-rounded quartz and sandstone gravel	CH-CL		610
72				Silty CLAY, yellow, medium stiff, medium plasticity, moist, sub-rounded quartz cobble and angular dark grey chert cobble	CL		
				Sandy CLAY and gravel, brown/tan/yellow, soft, low to medium plasticity, moist to wet, fine to coarse sub-rounded quartz gravel and rounded cobbles	CL-SW		

Bentonite seal (chips)

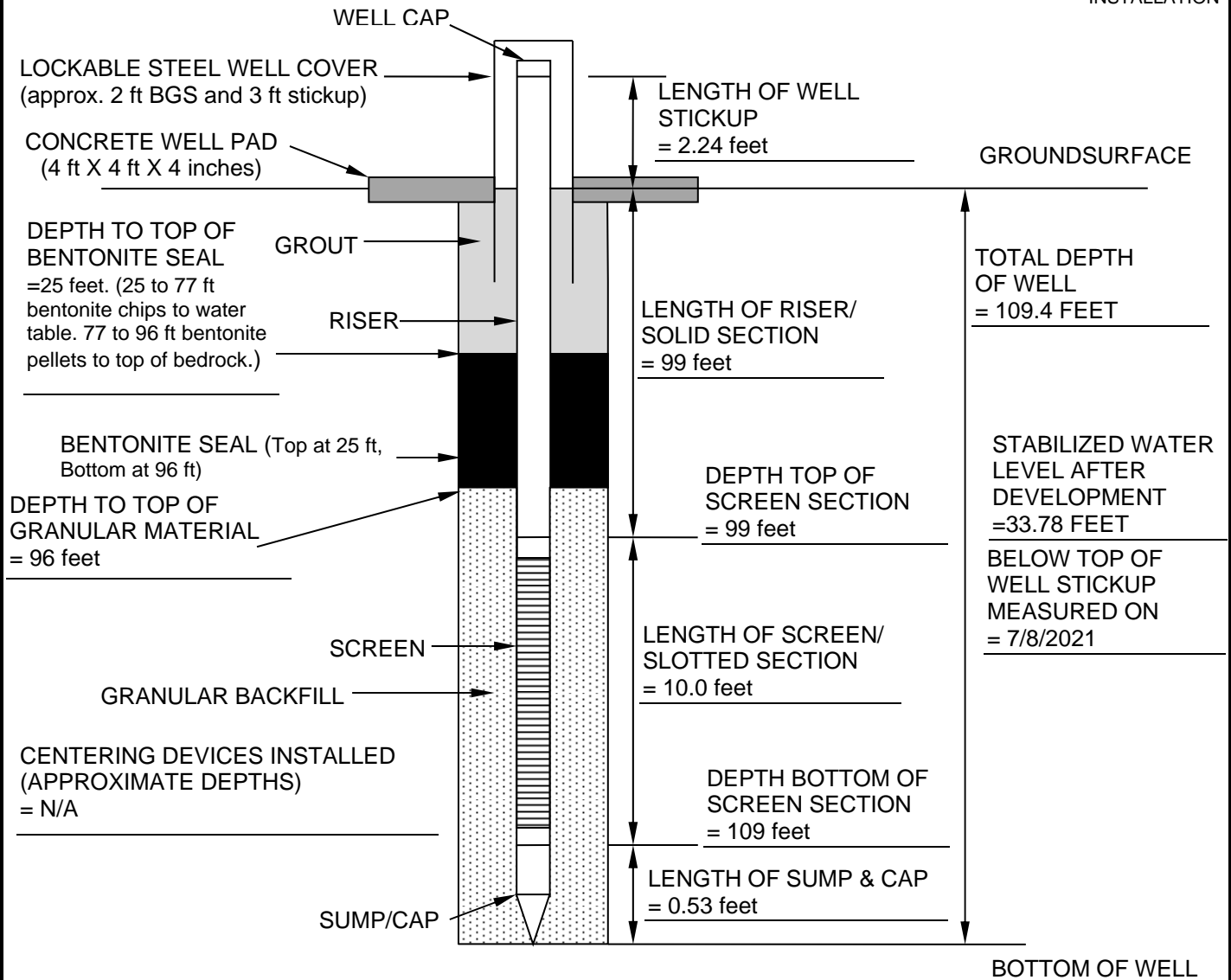
Depth (ft)	Samples	Sample Run (Recovery)	Graphic Log	Material Description	USCS	Well Diagram	Elevation (ft)
74							608
76							606
78				Dolomite, dark grey, moist (acid test confirmation)	-		604
80	80-85	#9		Decomposed dolomite with sub-rounded quartz gravel inclusions and cobbles, wet 83.2-85 ft interstitial sandy clay			602
82		(100%)	600				
84				Dolomite, dark grey, wet, no visible decomposition			598
86	85-90	#10					596
88		(20%)		95-95.3 ft brown surface staining 96.8 ft sub-rounded quartz gravel inclusion			594
90	90-98	#11					592
92		(38%)		Clayey GRAVEL, grey/orange, loose, moist to wet, angular gravel with orange sticky clay matrix/cement	GC-SC		590
94							588
96				Sandy CLAY, orange/yellow/grey, very soft, medium plasticity, moist, fine grained sands	CL-SC		586
98	98-108	#12					584
100		(100%)		Dolomite, fractured with interstitial clays, grey/brown/tan, moist			582
102							580
104				103.7-104 ft silty sand, brown			578
106				105-105.6 dry rock lens			576
108							574
110				Boring terminated at 109.5 feet in bedrock			572
112							570

WELL INSTALLATION RECORD

JOB NAME Plant Bowen Cells 3 & 4	PROJECT NO. 6122-16-0287
WELL NUMBER GWA-36RA	INSTALLATION DATE 7/2/2021
LOCATION* NORTH: 1505060.13 EAST: 2073365.45	GROUND ELEV: 682.26 feet NAVD88
WOOD FIELD REPRESENTATIVE A. Shoredits	DRILLER/ CONTRACTOR Cascade
GRANULAR BACKFILL MATERIAL #1 Silica Filter Sand	DRILLING TECHNIQUE Rotosonic
SCREEN MATERIAL 2-inch I.D. Flush Joint Slotted PVC (Sch. 40)	BOREHOLE DIAMETER ± 6 inch
SLOT SIZE 0.010-inch Machine Cut	REFERENCE POINT** ELEVATION* 684.50 ft NAVD88
RISER MATERIAL 2-inch I.D. Flush joint Solid PVC (Sch. 40)	LOCK TYPE/KEY CODE Master

* Preliminary-Final location/elevation to be determined by As-Built Survey
 ** Reference point is notch cut in the top of PVC casing

NOTE: NOT TO SCALE, ALL DEPTHS RECORDED ARE
 RELATIVE TO EXISTING GROUND SURFACE AT TIME OF
 INSTALLATION



Notes:
 Sand – 2.3 bags of #1 sand for prepack & screen interval
 Bentonite – 5 buckets 3/8" coated and uncoated pellets for bedrock plug;
 7 bags of 3/8" chips added to above groundwater elevation
 Grout – 2 bags of bentonite mix with ~50 gals water

Review: RNQ Date: 8/12/2021

Well Installation Record

GWA-36RA

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, LP.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

Issued on 9/27/2017
Expires on 6/30/2019
Renewed on 3/4/2019
Expires on 6/30/2021

does hereby continue said bond in force for the further period

beginning on 06/30/2019
(MONTH-DAY-YEAR)

and ending on 06/30/2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium: \$1200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as heretofore set forth.

Signed and dated on March 4th, 2019
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent



Power of Attorney

KENNETH M. NICHOLSON, TRUSTEE OF THE KENNETH M. NICHOLSON TRUST, AN ASSOCIATED COMPANY OF NEW YORK LIFE INSURANCE COMPANY, NEW YORK, NEW YORK, hereby designates as his attorney-in-fact, the following persons, to-wit: Deanna M. French, Susan R. Larson, Elizabeth K. Hales, Kara M. Kay, Scott M. Johnson, Marilee E. Rankin, Harold F. Lange, John R. Clarr, Roger Kalmbach, John Arnold, Sr., Scott Kahler, Andrew P. Larson, Nicholas K. Grodzki, William M. Smith, David Rubin, Charles M. Beattie, and Nicholas J. Decker, to act for and in the name of the donor in all matters relating to the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust. The donor hereby authorizes the attorney-in-fact to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust. The donor hereby authorizes the attorney-in-fact to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust.

Authority: The donor hereby authorizes the attorney-in-fact to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust.

Signature: The donor hereby authorizes the attorney-in-fact to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust, and to execute, acknowledge, and file any and all documents necessary to carry out the trust.

This document is intended to be read and construed as a whole and should not be interpreted in isolation. It is intended to be read and construed as a whole and should not be interpreted in isolation.

Witness: The witness hereby testifies that the donor is of legal age and of sound mind, and that the donor has executed this instrument voluntarily and without duress, fraud, or undue influence.

IN WITNESS WHEREOF, I HAVE HEREUNTO SIGNED AND SEALED MY HAND AND AFFIXED MY SEAL, this 21st day of April, 2017.

KENNETH M. NICHOLSON



By *[Signature]*
Lawrence M. Nicholson, Esq.

I, the undersigned, being duly sworn, depose and say that the above-named donor is of legal age and of sound mind, and that the donor has executed this instrument voluntarily and without duress, fraud, or undue influence.



[Signature]
Notary Public

I, the undersigned, being duly sworn, depose and say that the above-named donor is of legal age and of sound mind, and that the donor has executed this instrument voluntarily and without duress, fraud, or undue influence.

Notary Public for New York State
April 21, 2017



[Signature]
Notary Public

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

Policy No. _____

Contract No. 80003397E

Issued on 9/27/2017
Expires on 6/30/2021
Renewed on 4/12/2021
Expires on 6/30/2023

Effective Date: 06-30-2021
DURATION: MONTHLY YEAR

Contractor: Ricky Davis / Cascade Drilling L.P.
ADDRESS:

Address of: Department of Natural Resources, State of Georgia
ADDRESS:

Contract Description: (used as a guide for the bond type)

Expiration Date: 06-30-2021
DURATION: MONTHLY YEAR

Renewal Date: 06-30-2023
DURATION: MONTHLY YEAR

Amount of Bond: Fifty Thousand and 00/100 Dollars (\$50,000.00)

Description of Bond: Performance Bond for Water Well Contractors

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the surety's liability under said bond and any and all other continuation certificates issued in connection therewith shall not be cumulative and that the said surety's aggregate liability under said bond and this and all such continuation certificates on account of all defaults committed during the period (regardless of the number of years said bond had been and shall be in force, duration in any event exceed the amount of said bond as hereinbefore set forth.

Noted/Initialed: April 12th, 2021
DURATION: MONTHLY YEAR

Atlantic Specialty Insurance Company

By: 
Andrew P. Smith

Parsons, Smith & Beck, Inc

Agent

2233 117th Ave NE Bellevue, WA 98004

Washington State

425-709-3600

Telephone Number of Agent



APPENDIX C

WELL DEVELOPMENT FORMS

Low-Flow Test Report:

Test Date / Time: 7/8/2021 2:25:24 PM

Project: Plant Bowen LF Development

Operator Name: Joe Booth

Location Name: GWA-36RA Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 99 ft Total Depth: 109 ft Initial Depth to Water: 33.52 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 107 ft Estimated Total Volume Pumped: 52000 ml Flow Cell Volume: 90 ml Final Flow Rate: 500 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
--	---	--

Test Notes:

Prepurge 212 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/8/2021 2:25 PM	00:00	7.19 pH	18.28 °C	160.28 µS/cm	4.86 mg/L	49.30 NTU	62.3 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:29 PM	04:00	7.19 pH	17.71 °C	161.45 µS/cm	4.93 mg/L	34.80 NTU	56.4 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:33 PM	08:00	7.18 pH	18.15 °C	161.41 µS/cm	4.92 mg/L	37.50 NTU	55.1 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:37 PM	12:00	7.18 pH	18.11 °C	160.99 µS/cm	4.71 mg/L	33.80 NTU	55.0 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:41 PM	16:00	7.19 pH	18.23 °C	161.29 µS/cm	4.66 mg/L	34.20 NTU	54.4 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:45 PM	20:00	7.19 pH	17.97 °C	162.71 µS/cm	4.63 mg/L	34.10 NTU	53.9 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:49 PM	24:00	7.19 pH	18.06 °C	162.71 µS/cm	4.59 mg/L	32.70 NTU	53.8 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:53 PM	28:00	7.20 pH	17.91 °C	162.12 µS/cm	4.57 mg/L	27.50 NTU	53.8 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 2:57 PM	32:00	7.20 pH	17.79 °C	162.18 µS/cm	4.58 mg/L	26.70 NTU	53.4 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 3:01 PM	36:00	7.19 pH	17.87 °C	162.32 µS/cm	4.58 mg/L	24.40 NTU	53.2 mV	33.78 ft	0.08 PSU	750.00 ml/min
7/8/2021 3:05 PM	40:00	7.19 pH	17.93 °C	162.62 µS/cm	4.57 mg/L	23.30 NTU	53.5 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:09 PM	44:00	7.18 pH	17.79 °C	162.49 µS/cm	4.53 mg/L	20.00 NTU	53.4 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:13 PM	48:00	7.18 pH	17.75 °C	162.51 µS/cm	4.52 mg/L	17.80 NTU	53.4 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:17 PM	52:00	7.18 pH	17.84 °C	162.78 µS/cm	4.53 mg/L	17.70 NTU	53.5 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:21 PM	56:00	7.18 pH	17.75 °C	162.98 µS/cm	4.48 mg/L	17.70 NTU	53.1 mV	33.78 ft	0.08 PSU	500.00 ml/min

7/8/2021 3:25 PM	01:00:00	7.18 pH	17.81 °C	162.57 µS/cm	4.47 mg/L	15.00 NTU	52.8 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:29 PM	01:04:00	7.18 pH	17.97 °C	162.65 µS/cm	4.47 mg/L	12.70 NTU	53.1 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:33 PM	01:08:00	7.18 pH	17.84 °C	162.60 µS/cm	4.47 mg/L	12.20 NTU	52.9 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:37 PM	01:12:00	7.18 pH	17.86 °C	162.56 µS/cm	4.47 mg/L	11.50 NTU	53.0 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:41 PM	01:16:00	7.17 pH	18.22 °C	162.26 µS/cm	4.44 mg/L	10.48 NTU	52.3 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:45 PM	01:20:00	7.16 pH	18.29 °C	162.10 µS/cm	4.44 mg/L	10.28 NTU	53.1 mV	33.78 ft	0.08 PSU	500.00 ml/min
7/8/2021 3:49 PM	01:24:00	7.16 pH	18.26 °C	162.33 µS/cm	4.44 mg/L	8.75 NTU	52.6 mV	33.78 ft	0.08 PSU	500.00 ml/min

Samples

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

EQUIPMENT CALIBRATION LOG

Calibration by: Joe Booth	Date: 7/8/21	Time Calibration: 10:06	Time Used by Client:
Model No: 786 310	Model Year Type: 2020we	ID: 9429-417	
From Plant Name: Lake-2020 District: 2020we	Instrument Name: Oysterlog+		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) Oxy, 100% water saturated air sat				31.48	
Specific Conductance (µmhos)	20440203 2/22	23.41	4490	4510	
pH (4)	20440203 2/22	23.41	4	4.04	
pH (7)	19450117 2/22	23.50	7	7.10	
pH (10)	21010067 2/22	23.67	10	10.04	
ORP (mV)	19460167 2/22	23.68	328	193.0	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.02	<= 0.1 NTU	Yes	No	
Turbidity 1 NTU	1	0.91	<= 0.1 NTU	Yes	No	
Turbidity 10 NTU	10	9.73	<= 0.1 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check		4		<= 0.1 SU	Yes	No	
Mid-Day pH (7) check		7		<= 0.1 SU	Yes	No	
Mid-Day pH (10) check		10		<= 0.1 SU	Yes	No	

APPENDIX D

WELL ABANDONMENT DOCUMENT



Well Abandonment Record

WELL NO.: GWA-36R

PROJECT NAME: Plant Bowen

PROJECT NO: 6122-16-0287

FINISH DATE: 7/1/2021

Name of Property Owner: Georgia Power Company

Address of Property: 317 Covered Bridge Road, Euharlee, Georgia

Type of Well Installation Method: Rotasonic Drilling with 4-inch barrel

Date of Well Installation: 6/15/2011

Original Purpose of Well Installation: Groundwater monitoring upgradient of Cells 3 & 4

Total Depth of Well (measured from Top of Riser): 89.6 ft

Top of Riser Height (above/below ground surface): 2.7 ft above ground surface

Well Diameter (nominal) and Material Type: 2-inch Sch 40 PVC

Screen Slot Size and Opening Type: 10-slot (0.010 inch)

Screen Length and Backfill Material: 75.7-85.7 ft bgs (10 ft); Bentonite pellets (coated)

Depth to Water/Date (measured from Top of Riser): 32.05 ft btoc (6/28/2021)

Screened Formation or Aquifer Type: Dolomite Bedrock

Description of Well Abandonment Method: Casing left in-place below top of rock and filled with bentonite pellets. Over-drilled from ground surface to top of rock and casing removed. Borehole filled with bentonite chips up to water table and grout from water table up to ground surface.

Calculated Well Volume ($\pi r^2 L \times 7.4805$): 127.5 gal

Type and Volume of Materials Used to Plug Well: Approximately 30 gallons of a neat cement and bentonite grout mixture.

Riser and/or Screen Length Removed or Left in Place: Remaining casing from ground surface to top of rock was over-drilled and removed.

Drilling Contractor: Cascade Drilling

Driller's Name: Cory Franklin

Additional Notes –

- Added one bucket of Pel-Plug coated bentonite pellets to seal well screen and to top of rock (± 71 ft bgs)
- Well casing was over-drilled using Sonic 6-in casing to a depth of 70 ft bgs
- 9 bags of 3/8-in Haliburton Hole-plug bentonite chips were emplaced to top of water table (± 30 ft bgs)
- Used 1.5 bags AQUAGUARD (Baroid Industrial Drilling Products, 50 lbs per bag) mixed with fresh water to make a 30 gal of grout mix. Grout was pumped into the borehole using a 1.5-inch tremie pipe, set at the bottom of the well and gradually moved up the borehole while pumping the grout mixture.
- Protective steel casing, bollards, and concrete pad were removed. Surface was covered with soil to match the surroundings.

Wood Field Representative:

Andreas Shoreredits

APPENDIX B
LABORATORY ANALYTICAL DATA AND FIELD
SAMPLING REPORTS



June 03, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN LF CELLS 1&2
Pace Project No.: 92528787

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 19, 2021 and March 31, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN LF CELLS 1&2
Pace Project No.: 92528787

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92528787001	FB-1	Water	03/16/21 16:25	03/19/21 13:05
92528787002	DUP-1	Water	03/16/21 00:00	03/19/21 13:05
92528787003	GWA-1	Water	03/16/21 13:27	03/19/21 13:05
92528787004	GWA-2R	Water	03/16/21 15:11	03/19/21 13:05
92528787005	GWA-4RZ	Water	03/16/21 11:04	03/19/21 13:05
92528787006	GWC-11	Water	03/19/21 09:55	03/19/21 13:05
92528787007	GWC-11R	Water	03/19/21 10:35	03/19/21 13:05
92528787008	GWC-12	Water	03/19/21 10:18	03/19/21 13:05
92528787009	GWC-13RZ	Water	03/19/21 09:05	03/19/21 13:05
92528787010	DUP-3	Water	03/19/21 00:00	03/19/21 13:05
92528787011	FB-4	Water	03/19/21 10:55	03/19/21 13:05
92528787012	GWC-8Z	Water	03/18/21 10:01	03/19/21 13:05
92528787013	GWC-9	Water	03/18/21 11:51	03/19/21 13:05
92528787014	GWC-10	Water	03/18/21 16:01	03/19/21 13:05
92528787015	GWC-10R	Water	03/18/21 13:27	03/19/21 13:05
92528787016	GWC-13	Water	03/18/21 15:26	03/19/21 13:05
92528787017	GWC-14Z	Water	03/18/21 10:12	03/19/21 13:05
92528787018	GWC-15R	Water	03/18/21 12:06	03/19/21 13:05
92528787019	GWC-15Z	Water	03/18/21 13:55	03/19/21 13:05
92528787020	DUP-2	Water	03/18/21 00:00	03/19/21 13:05
92528787021	FB-3	Water	03/18/21 15:28	03/19/21 13:05
92528787022	GWA-2	Water	03/17/21 12:24	03/19/21 13:05
92528787023	GWC-5	Water	03/17/21 14:20	03/19/21 13:05
92528787024	GWC-6	Water	03/17/21 15:16	03/19/21 13:05
92528787025	GWC-6RZ	Water	03/17/21 13:51	03/19/21 13:05
92528787026	GWC-7Z	Water	03/17/21 16:34	03/19/21 13:05
92528787027	GWC-8RR	Water	03/17/21 16:17	03/19/21 13:05
92528787028	GWA-50	Water	03/17/21 12:16	03/19/21 13:05
92528787029	GWA-50R	Water	03/17/21 14:29	03/19/21 13:05
92528787030	FB-2	Water	03/17/21 16:08	03/19/21 13:05
92528787031	FB-5	Water	03/29/21 16:32	03/31/21 09:38
92528787032	GWA-3A	Water	03/29/21 11:14	03/31/21 09:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92528787001	FB-1	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787002	DUP-1	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787003	GWA-1	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787004	GWA-2R	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787005	GWA-4RZ	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787006	GWC-11	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787007	GWC-11R	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787008	GWC-12	EPA 6010D	KH	2
		EPA 6020B	CW1	15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92528787009	GWC-13RZ	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787010	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
92528787011	FB-4	EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92528787012	GWC-8Z	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787013	GWC-9	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
92528787014	GWC-10	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787015	GWC-10R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 6010D	KH	2
		EPA 6020B	CW1	15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92528787016	GWC-13	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787017	GWC-14Z	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787018	GWC-15R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787019	GWC-15Z	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787020	DUP-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787021	FB-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787022	GWA-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787023	GWC-5	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92528787024	GWC-6	EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
92528787025	GWC-6RZ	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
92528787026	GWC-7Z	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92528787027	GWC-8RR	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92528787028	GWA-50	EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
92528787029	GWA-50R	EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
92528787030	FB-2	EPA 7470A	VB	1
		EPA 6020B	KH	15
		EPA 6010D	DRB	2

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92528787031	FB-5	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92528787032	GWA-3A	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787002	DUP-1					
EPA 6010D	Calcium	29.2	mg/L	1.0	03/31/21 15:48	
EPA 6020B	Antimony	0.0031	mg/L	0.0030	03/31/21 20:46	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/31/21 20:46	
EPA 6020B	Chromium	0.00059J	mg/L	0.0050	03/31/21 20:46	
EPA 6020B	Lead	0.000057J	mg/L	0.0010	03/31/21 20:46	
SM 2540C-2011	Total Dissolved Solids	109	mg/L	10.0	03/23/21 08:01	
EPA 300.0 Rev 2.1 1993	Chloride	0.74J	mg/L	1.0	03/24/21 11:18	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	03/24/21 11:18	
92528787003	GWA-1					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.57	Std. Units		03/22/21 12:00	
EPA 6010D	Zinc	0.0091J	mg/L	0.020	03/31/21 15:53	
EPA 6010D	Calcium	34.6	mg/L	1.0	03/31/21 15:53	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/31/21 20:52	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/31/21 20:52	
EPA 6020B	Lead	0.000052J	mg/L	0.0010	03/31/21 20:52	
SM 2540C-2011	Total Dissolved Solids	155	mg/L	10.0	03/23/21 08:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/24/21 11:33	
EPA 300.0 Rev 2.1 1993	Sulfate	0.99J	mg/L	1.0	03/24/21 11:33	
92528787004	GWA-2R					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.51	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	26.7	mg/L	1.0	03/30/21 20:33	
EPA 6020B	Antimony	0.0050	mg/L	0.0030	03/31/21 21:15	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/31/21 21:15	
EPA 6020B	Boron	0.0061J	mg/L	0.040	03/31/21 21:15	
EPA 6020B	Lead	0.000070J	mg/L	0.0010	03/31/21 21:15	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	03/31/21 21:15	
SM 2540C-2011	Total Dissolved Solids	102	mg/L	10.0	03/23/21 07:39	
EPA 300.0 Rev 2.1 1993	Chloride	0.73J	mg/L	1.0	03/24/21 12:20	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	03/24/21 12:20	
92528787005	GWA-4RZ					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.40	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	53.7	mg/L	1.0	03/30/21 20:37	
EPA 6020B	Antimony	0.00082J	mg/L	0.0030	03/31/21 21:20	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	03/31/21 21:20	
EPA 6020B	Barium	0.042	mg/L	0.0050	03/31/21 21:20	
EPA 6020B	Boron	0.0092J	mg/L	0.040	03/31/21 21:20	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	03/31/21 21:20	
SM 2540C-2011	Total Dissolved Solids	196	mg/L	10.0	03/23/21 07:40	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/24/21 12:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/24/21 12:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787005	GWA-4RZ					
EPA 300.0 Rev 2.1 1993	Sulfate	22.1	mg/L	1.0	03/24/21 12:34	
92528787006	GWC-11					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.05	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	19.7	mg/L	1.0	03/30/21 20:57	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	03/31/21 21:38	
EPA 6020B	Barium	0.011	mg/L	0.0050	03/31/21 21:38	
EPA 6020B	Chromium	0.0073	mg/L	0.0050	03/31/21 21:38	
SM 2540C-2011	Total Dissolved Solids	79.0	mg/L	10.0	03/25/21 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/24/21 12:48	
EPA 300.0 Rev 2.1 1993	Sulfate	1.9	mg/L	1.0	03/24/21 12:48	
92528787007	GWC-11R					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.64	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	31.3	mg/L	1.0	03/30/21 21:02	
EPA 6020B	Antimony	0.012	mg/L	0.0030	03/31/21 21:43	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/31/21 21:43	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/31/21 21:43	
EPA 6020B	Chromium	0.0079	mg/L	0.0050	03/31/21 21:43	
EPA 6020B	Copper	0.0018J	mg/L	0.0050	03/31/21 21:43	
EPA 6020B	Lead	0.00018J	mg/L	0.0010	03/31/21 21:43	
SM 2540C-2011	Total Dissolved Solids	135	mg/L	10.0	03/25/21 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/24/21 13:02	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/24/21 13:02	
92528787008	GWC-12					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	6.31	Std. Units		03/22/21 12:00	
EPA 6010D	Zinc	0.0076J	mg/L	0.020	03/30/21 21:07	
EPA 6010D	Calcium	7.8	mg/L	1.0	03/30/21 21:07	
EPA 6020B	Arsenic	0.0052	mg/L	0.0050	03/31/21 21:49	
EPA 6020B	Barium	0.024	mg/L	0.0050	03/31/21 21:49	
EPA 6020B	Cadmium	0.00027J	mg/L	0.00050	03/31/21 21:49	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	03/31/21 21:49	
EPA 6020B	Nickel	0.0022J	mg/L	0.0050	03/31/21 21:49	
SM 2540C-2011	Total Dissolved Solids	53.0	mg/L	10.0	03/25/21 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	0.79J	mg/L	1.0	03/24/21 13:16	
92528787009	GWC-13RZ					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.42	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	43.0	mg/L	1.0	03/30/21 21:11	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/31/21 21:55	
EPA 6020B	Arsenic	0.00084J	mg/L	0.0050	03/31/21 21:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787009	GWC-13RZ					
EPA 6020B	Barium	0.086	mg/L	0.0050	03/31/21 21:55	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/31/21 21:55	
EPA 6020B	Lead	0.000074J	mg/L	0.0010	03/31/21 21:55	
SM 2540C-2011	Total Dissolved Solids	250	mg/L	10.0	03/26/21 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	03/25/21 12:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	03/25/21 12:09	
EPA 300.0 Rev 2.1 1993	Sulfate	74.2	mg/L	1.0	03/25/21 12:09	M1
92528787010	DUP-3					
EPA 6010D	Zinc	0.0093J	mg/L	0.020	03/30/21 21:16	
EPA 6010D	Calcium	7.8	mg/L	1.0	03/30/21 21:16	
EPA 6020B	Arsenic	0.0059	mg/L	0.0050	03/31/21 22:00	
EPA 6020B	Barium	0.024	mg/L	0.0050	03/31/21 22:00	
EPA 6020B	Cadmium	0.00035J	mg/L	0.00050	03/31/21 22:00	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/31/21 22:00	
EPA 6020B	Nickel	0.0022J	mg/L	0.0050	03/31/21 22:00	
SM 2540C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/26/21 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	0.85J	mg/L	1.0	03/25/21 12:51	
92528787012	GWC-8Z					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	6.45	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	9.6	mg/L	1.0	03/30/21 21:35	
EPA 6020B	Arsenic	0.00082J	mg/L	0.0050	03/31/21 22:12	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/31/21 22:12	
EPA 6020B	Beryllium	0.000085J	mg/L	0.00050	03/31/21 22:12	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/31/21 22:12	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/31/21 22:12	
EPA 6020B	Selenium	0.0089	mg/L	0.0050	03/31/21 22:12	
SM 2540C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/24/21 09:46	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/25/21 13:19	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/25/21 13:19	
92528787013	GWC-9					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	4.78	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	1.9	mg/L	1.0	03/31/21 16:07	
EPA 6020B	Barium	0.041	mg/L	0.0050	03/31/21 22:18	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	03/31/21 22:18	
EPA 6020B	Lead	0.00010J	mg/L	0.0010	03/31/21 22:18	
EPA 6020B	Nickel	0.0010J	mg/L	0.0050	03/31/21 22:18	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	03/25/21 13:33	
EPA 300.0 Rev 2.1 1993	Sulfate	2.1	mg/L	1.0	03/25/21 13:33	
92528787014	GWC-10					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	6.69	Std. Units		03/22/21 12:00	

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787014	GWC-10					
EPA 6010D	Calcium	27.0	mg/L	1.0	03/31/21 08:46	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/31/21 22:23	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	03/31/21 22:23	
EPA 6020B	Chromium	0.00068J	mg/L	0.0050	03/31/21 22:23	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	03/31/21 22:23	
EPA 6020B	Nickel	0.00094J	mg/L	0.0050	03/31/21 22:23	
SM 2540C-2011	Total Dissolved Solids	74.0	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/25/21 14:29	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	03/25/21 14:29	
92528787015	GWC-10R					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.52	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	43.8	mg/L	1.0	03/31/21 08:51	
EPA 6020B	Barium	0.027	mg/L	0.0050	03/31/21 22:29	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/31/21 22:29	
EPA 6020B	Nickel	0.0011J	mg/L	0.0050	03/31/21 22:29	
SM 2540C-2011	Total Dissolved Solids	62.0	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/25/21 14:43	
EPA 300.0 Rev 2.1 1993	Sulfate	0.96J	mg/L	1.0	03/25/21 14:43	
92528787016	GWC-13					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.30	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	30.8	mg/L	1.0	03/31/21 08:56	
EPA 6020B	Antimony	0.00078J	mg/L	0.0030	03/31/21 22:46	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/31/21 22:46	
EPA 6020B	Beryllium	0.000070J	mg/L	0.00050	03/31/21 22:46	
EPA 6020B	Boron	0.0091J	mg/L	0.040	03/31/21 22:46	
EPA 6020B	Chromium	0.0058	mg/L	0.0050	03/31/21 22:46	
EPA 6020B	Lead	0.00024J	mg/L	0.0010	03/31/21 22:46	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	03/31/21 22:46	
SM 2540C-2011	Total Dissolved Solids	82.0	mg/L	10.0	03/24/21 09:47	D6
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	03/25/21 14:56	
EPA 300.0 Rev 2.1 1993	Sulfate	19.3	mg/L	1.0	03/25/21 14:56	
92528787017	GWC-14Z					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	6.04	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	13.0	mg/L	1.0	03/31/21 09:01	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/31/21 22:52	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	03/31/21 22:52	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	03/31/21 22:52	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	03/31/21 22:52	
SM 2540C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/25/21 15:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787017	GWC-14Z					
EPA 300.0 Rev 2.1 1993	Sulfate	7.8	mg/L	1.0	03/25/21 15:10	
92528787018	GWC-15R					
	Performed by	CUSTOME			03/22/21 12:00	
		R				
	pH	7.58	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	42.1	mg/L	1.0	03/31/21 09:05	
EPA 6020B	Antimony	0.00045J	mg/L	0.0030	03/31/21 22:58	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/31/21 22:58	
EPA 6020B	Chromium	0.00089J	mg/L	0.0050	03/31/21 22:58	
EPA 6020B	Lead	0.00036J	mg/L	0.0010	03/31/21 22:58	
EPA 6020B	Nickel	0.00079J	mg/L	0.0050	03/31/21 22:58	
SM 2540C-2011	Total Dissolved Solids	153	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	03/25/21 15:24	
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	03/25/21 15:24	
92528787019	GWC-15Z					
	Performed by	CUSTOME			03/22/21 12:00	
		R				
	pH	7.87	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	27.4	mg/L	1.0	03/31/21 16:12	
EPA 6020B	Barium	0.012	mg/L	0.0050	03/31/21 23:03	
EPA 6020B	Chromium	0.00078J	mg/L	0.0050	03/31/21 23:03	
EPA 6020B	Lead	0.000040J	mg/L	0.0010	03/31/21 23:03	
SM 2540C-2011	Total Dissolved Solids	54.0	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	0.67J	mg/L	1.0	03/25/21 15:37	
EPA 300.0 Rev 2.1 1993	Sulfate	0.76J	mg/L	1.0	03/25/21 15:37	
92528787020	DUP-2					
EPA 6010D	Calcium	10.2	mg/L	1.0	03/31/21 09:21	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/31/21 23:15	
EPA 6020B	Beryllium	0.000087J	mg/L	0.00050	03/31/21 23:15	
EPA 6020B	Chromium	0.0022J	mg/L	0.0050	03/31/21 23:15	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/31/21 23:15	
SM 2540C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/24/21 09:47	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	03/25/21 16:18	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	03/25/21 16:18	
92528787021	FB-3					
EPA 6020B	Cadmium	0.00035J	mg/L	0.00050	04/01/21 13:09	
EPA 6020B	Lead	0.000038J	mg/L	0.0010	04/01/21 13:09	B
EPA 6020B	Selenium	0.0032J	mg/L	0.0050	04/01/21 13:09	B
92528787022	GWA-2					
	Performed by	CUSTOME			03/22/21 12:00	
		R				
	pH	6.58	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	40.4	mg/L	1.0	03/30/21 16:58	
EPA 6020B	Barium	0.025	mg/L	0.0050	04/01/21 13:14	
EPA 6020B	Selenium	0.0045J	mg/L	0.0050	04/01/21 13:14	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92528787022	GWA-2					
SM 2540C-2011	Total Dissolved Solids	211	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/25/21 17:13	
EPA 300.0 Rev 2.1 1993	Sulfate	90.7	mg/L	1.0	03/25/21 17:13	
92528787023	GWC-5					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	5.85	Std. Units		03/22/21 12:00	
EPA 6010D	Zinc	0.027	mg/L	0.020	03/30/21 17:03	
EPA 6010D	Calcium	3.0	mg/L	1.0	03/30/21 17:03	
EPA 6020B	Barium	0.014	mg/L	0.0050	04/01/21 13:37	
EPA 6020B	Beryllium	0.00061	mg/L	0.00050	04/01/21 13:37	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	04/01/21 13:37	
EPA 6020B	Chromium	0.00069J	mg/L	0.0050	04/01/21 13:37	
EPA 6020B	Copper	0.019	mg/L	0.0050	04/01/21 13:37	
EPA 6020B	Nickel	0.0077	mg/L	0.0050	04/01/21 13:37	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	04/01/21 13:37	B
SM 2540C-2011	Total Dissolved Solids	15.0	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	0.69J	mg/L	1.0	03/25/21 17:26	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	03/25/21 17:26	
92528787024	GWC-6					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.57	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	14.1	mg/L	1.0	03/30/21 17:08	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	04/01/21 13:43	
EPA 6020B	Barium	0.0075	mg/L	0.0050	04/01/21 13:43	
EPA 6020B	Chromium	0.0027J	mg/L	0.0050	04/01/21 13:43	
EPA 6020B	Lead	0.000074J	mg/L	0.0010	04/01/21 13:43	B
SM 2540C-2011	Total Dissolved Solids	47.0	mg/L	10.0	03/23/21 08:42	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/25/21 17:40	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/25/21 17:40	
92528787025	GWC-6RZ					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.03	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	9.5	mg/L	1.0	03/30/21 17:13	
EPA 6020B	Barium	0.0072	mg/L	0.0050	04/01/21 13:49	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	04/01/21 13:49	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	04/01/21 13:49	B
SM 2540C-2011	Total Dissolved Solids	43.0	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/25/21 17:54	
EPA 300.0 Rev 2.1 1993	Sulfate	1.8	mg/L	1.0	03/25/21 17:54	
92528787026	GWC-7Z					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	7.52	Std. Units		03/22/21 12:00	

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92528787026	GWC-7Z					
EPA 6010D	Calcium	23.9	mg/L	1.0	03/30/21 17:17	
EPA 6020B	Antimony	0.00099J	mg/L	0.0030	04/01/21 14:18	
EPA 6020B	Barium	0.022	mg/L	0.0050	04/01/21 14:18	
EPA 6020B	Cobalt	0.00045J	mg/L	0.0050	04/01/21 14:18	
EPA 6020B	Lead	0.000049J	mg/L	0.0010	04/01/21 14:18	B
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	04/01/21 14:18	
SM 2540C-2011	Total Dissolved Solids	112	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	0.79J	mg/L	1.0	03/25/21 18:07	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	03/25/21 18:07	
92528787027	GWC-8RR					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	8.08	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	22.4	mg/L	1.0	03/30/21 17:22	
EPA 6020B	Barium	0.014	mg/L	0.0050	04/01/21 14:23	
EPA 6020B	Chromium	0.00079J	mg/L	0.0050	04/01/21 14:23	
SM 2540C-2011	Total Dissolved Solids	113	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	0.78J	mg/L	1.0	03/25/21 18:21	
EPA 300.0 Rev 2.1 1993	Sulfate	0.72J	mg/L	1.0	03/25/21 18:21	
92528787028	GWA-50					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	5.64	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	1.4	mg/L	1.0	03/30/21 17:39	
EPA 6020B	Barium	0.0074	mg/L	0.0050	04/01/21 14:29	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	04/01/21 14:29	
EPA 6020B	Copper	0.0019J	mg/L	0.0050	04/01/21 14:29	
EPA 6020B	Silver	0.00044J	mg/L	0.0050	04/01/21 14:29	
EPA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	03/25/21 18:35	
92528787029	GWA-50R					
	Performed by	CUSTOMER			03/22/21 12:00	
	pH	6.31	Std. Units		03/22/21 12:00	
EPA 6010D	Calcium	5.4	mg/L	1.0	03/30/21 17:44	
EPA 6020B	Barium	0.012	mg/L	0.0050	04/01/21 14:35	
EPA 6020B	Copper	0.0024J	mg/L	0.0050	04/01/21 14:35	
EPA 6020B	Nickel	0.0012J	mg/L	0.0050	04/01/21 14:35	
EPA 6020B	Silver	0.0026J	mg/L	0.0050	04/01/21 14:35	
SM 2540C-2011	Total Dissolved Solids	31.0	mg/L	10.0	03/23/21 08:42	
EPA 300.0 Rev 2.1 1993	Chloride	0.81J	mg/L	1.0	03/25/21 21:19	
EPA 300.0 Rev 2.1 1993	Sulfate	0.86J	mg/L	1.0	03/25/21 21:19	
92528787031	FB-5					
EPA 6020B	Chromium	0.0027J	mg/L	0.0050	04/05/21 18:34	

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92528787032	GWA-3A					
	Performed by	CUSTOME			04/01/21 09:39	
		R				
	pH	8.04	Std. Units		04/01/21 09:39	
EPA 6010D	Calcium	19.0	mg/L	1.0	04/02/21 20:14	
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	04/05/21 18:39	
EPA 6020B	Barium	0.0073	mg/L	0.0050	04/05/21 18:39	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	04/05/21 18:39	
SM 2540C-2011	Total Dissolved Solids	76.0	mg/L	10.0	04/05/21 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	04/04/21 22:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	04/04/21 22:44	
EPA 300.0 Rev 2.1 1993	Sulfate	5.4	mg/L	1.0	04/04/21 22:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: FB-1		Lab ID: 92528787001		Collected: 03/16/21 16:25		Received: 03/19/21 13:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 15:43	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 15:43	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 20:40	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 20:40	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 20:40	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 20:40	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 20:40	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 20:40	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 20:40	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 20:40	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 20:40	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 20:40	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 20:40	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 20:40	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 20:40	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 20:40	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 20:40	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 10:04	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/21 08:01			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/24/21 11:02	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 11:02	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/24/21 11:02	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: DUP-1 **Lab ID:** 92528787002 Collected: 03/16/21 00:00 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 15:48	7440-66-6	
Calcium	29.2	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 15:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0031	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 20:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 20:46	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 20:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 20:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 20:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 20:46	7440-43-9	
Chromium	0.00059J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 20:46	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 20:46	7440-50-8	
Lead	0.000057J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 20:46	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 20:46	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 20:46	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 20:46	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 20:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 20:46	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 10:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	109	mg/L	10.0	10.0	1		03/23/21 08:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	0.74J	mg/L	1.0	0.60	1		03/24/21 11:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 11:18	16984-48-8	
Sulfate	3.3	mg/L	1.0	0.50	1		03/24/21 11:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWA-1		Lab ID: 92528787003		Collected: 03/16/21 13:27		Received: 03/19/21 13:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.57	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0091J	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 15:53	7440-66-6	
Calcium	34.6	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 15:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 20:52	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 20:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 20:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 20:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 20:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 20:52	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 20:52	7440-50-8	
Lead	0.000052J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 20:52	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 20:52	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 20:52	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 20:52	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 20:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 20:52	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 10:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	155	mg/L	10.0	10.0	1		03/23/21 08:01		
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		03/24/21 11:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 11:33	16984-48-8	
Sulfate	0.99J	mg/L	1.0	0.50	1		03/24/21 11:33	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWA-2R		Lab ID: 92528787004		Collected: 03/16/21 15:11	Received: 03/19/21 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.51	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 20:33	7440-66-6	
Calcium	26.7	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 20:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0050	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:15	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:15	7440-41-7	
Boron	0.0061J	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:15	7440-50-8	
Lead	0.000070J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:15	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:15	7440-02-0	
Selenium	0.0021J	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:15	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	102	mg/L	10.0	10.0	1		03/23/21 07:39		
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		03/24/21 12:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 12:20	16984-48-8	
Sulfate	3.3	mg/L	1.0	0.50	1		03/24/21 12:20	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWA-4RZ **Lab ID: 92528787005** Collected: 03/16/21 11:04 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.40	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 20:37	7440-66-6	
Calcium	53.7	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 20:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00082J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:20	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:20	7440-38-2	
Barium	0.042	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:20	7440-41-7	
Boron	0.0092J	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:20	7440-47-3	
Cobalt	0.015	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:20	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:20	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:20	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:20	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:20	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:20	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:20	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	196	mg/L	10.0	10.0	1		03/23/21 07:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/24/21 12:34	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		03/24/21 12:34	16984-48-8	
Sulfate	22.1	mg/L	1.0	0.50	1		03/24/21 12:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-11 **Lab ID: 92528787006** Collected: 03/19/21 09:55 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.05	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 20:57	7440-66-6	
Calcium	19.7	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 20:57	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00032J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:38	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:38	7440-43-9	
Chromium	0.0073	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:38	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:38	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:38	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:38	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:38	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	79.0	mg/L	10.0	10.0	1		03/25/21 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		03/24/21 12:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 12:48	16984-48-8	
Sulfate	1.9	mg/L	1.0	0.50	1		03/24/21 12:48	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWC-11R									
Lab ID: 92528787007									
Collected: 03/19/21 10:35 Received: 03/19/21 13:05 Matrix: Water									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.64	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:02	7440-66-6	
Calcium	31.3	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.012	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:43	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:43	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:43	7440-43-9	
Chromium	0.0079	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:43	7440-48-4	
Copper	0.0018J	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:43	7440-50-8	
Lead	0.00018J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:43	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:43	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:43	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:43	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	135	mg/L	10.0	10.0	1		03/25/21 11:11		
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		03/24/21 13:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 13:02	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/24/21 13:02	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-12 **Lab ID: 92528787008** Collected: 03/19/21 10:18 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.31	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0076J	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:07	7440-66-6	
Calcium	7.8	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:49	7440-36-0	
Arsenic	0.0052	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:49	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:49	7440-42-8	
Cadmium	0.00027J	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:49	7440-47-3	
Cobalt	0.0029J	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:49	7439-92-1	
Nickel	0.0022J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:49	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:49	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		03/25/21 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.79J	mg/L	1.0	0.60	1		03/24/21 13:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 13:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/24/21 13:16	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-13RZ		Lab ID: 92528787009		Collected: 03/19/21 09:05		Received: 03/19/21 13:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.42	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:11	7440-66-6	
Calcium	43.0	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:11	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0011J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 21:55	7440-36-0	
Arsenic	0.00084J	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 21:55	7440-38-2	
Barium	0.086	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 21:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 21:55	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 21:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 21:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 21:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 21:55	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 21:55	7440-50-8	
Lead	0.000074J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 21:55	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 21:55	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 21:55	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 21:55	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 21:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 21:55	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	250	mg/L	10.0	10.0	1		03/26/21 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.4	mg/L	1.0	0.60	1		03/25/21 12:09	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		03/25/21 12:09	16984-48-8	
Sulfate	74.2	mg/L	1.0	0.50	1		03/25/21 12:09	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: DUP-3 **Lab ID: 92528787010** Collected: 03/19/21 00:00 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0093J	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:16	7440-66-6	
Calcium	7.8	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:16	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:00	7440-36-0	
Arsenic	0.0059	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:00	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:00	7440-42-8	
Cadmium	0.00035J	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:00	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:00	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:00	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:00	7439-92-1	
Nickel	0.0022J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:00	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:00	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:00	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/26/21 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	0.85J	mg/L	1.0	0.60	1		03/25/21 12:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 12:51	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/25/21 12:51	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: FB-4 **Lab ID: 92528787011** Collected: 03/19/21 10:55 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:31	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:06	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:06	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:06	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:06	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:06	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:06	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:06	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:06	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/26/21 09:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/25/21 13:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 13:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/25/21 13:05	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-8Z		Lab ID: 92528787012		Collected: 03/18/21 10:01	Received: 03/19/21 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.45	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/30/21 21:35	7440-66-6	
Calcium	9.6	mg/L	1.0	0.070	1	03/30/21 13:03	03/30/21 21:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:12	7440-36-0	
Arsenic	0.00082J	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:12	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:12	7440-39-3	
Beryllium	0.000085J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:12	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:12	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:12	7440-50-8	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:12	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:12	7440-02-0	
Selenium	0.0089	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:12	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:12	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		03/24/21 09:46		
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		03/25/21 13:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 13:19	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		03/25/21 13:19	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-9 **Lab ID: 92528787013** Collected: 03/18/21 11:51 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	4.78	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 16:07	7440-66-6	
Calcium	1.9	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 16:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:18	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:18	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:18	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:18	7440-50-8	
Lead	0.00010J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:18	7439-92-1	
Nickel	0.0010J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:18	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:18	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:18	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/21 09:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.2	mg/L	1.0	0.60	1		03/25/21 13:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 13:33	16984-48-8	
Sulfate	2.1	mg/L	1.0	0.50	1		03/25/21 13:33	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-10 **Lab ID: 92528787014** Collected: 03/18/21 16:01 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.69	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 08:46	7440-66-6	
Calcium	27.0	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 08:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:23	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:23	7440-39-3	
Beryllium	0.00010J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:23	7440-43-9	
Chromium	0.00068J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:23	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:23	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:23	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:23	7439-92-1	
Nickel	0.00094J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:23	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:23	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:23	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	74.0	mg/L	10.0	10.0	1		03/24/21 09:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		03/25/21 14:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 14:29	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		03/25/21 14:29	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-10R	Lab ID: 92528787015	Collected: 03/18/21 13:27	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.52	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 08:51	7440-66-6	
Calcium	43.8	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 08:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:29	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:29	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:29	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:29	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:29	7439-92-1	
Nickel	0.0011J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:29	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:29	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:29	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:29	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	62.0	mg/L	10.0	10.0	1		03/24/21 09:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		03/25/21 14:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 14:43	16984-48-8	
Sulfate	0.96J	mg/L	1.0	0.50	1		03/25/21 14:43	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-13	Lab ID: 92528787016	Collected: 03/18/21 15:26	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.30	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 08:56	7440-66-6	
Calcium	30.8	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 08:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00078J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:46	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:46	7440-39-3	
Beryllium	0.000070J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:46	7440-41-7	
Boron	0.0091J	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:46	7440-43-9	
Chromium	0.0058	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:46	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:46	7440-50-8	
Lead	0.00024J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:46	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:46	7440-02-0	
Selenium	0.0021J	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:46	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:46	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:46	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:46	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 10:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	82.0	mg/L	10.0	10.0	1		03/24/21 09:47		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.4	mg/L	1.0	0.60	1		03/25/21 14:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 14:56	16984-48-8	
Sulfate	19.3	mg/L	1.0	0.50	1		03/25/21 14:56	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-14Z **Lab ID: 92528787017** Collected: 03/18/21 10:12 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.04	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 09:01	7440-66-6	
Calcium	13.0	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 09:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:52	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:52	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:52	7440-43-9	
Chromium	0.0023J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:52	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:52	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:52	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:52	7440-02-0	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:52	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:52	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:52	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:52	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/24/21 09:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		03/25/21 15:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 15:10	16984-48-8	
Sulfate	7.8	mg/L	1.0	0.50	1		03/25/21 15:10	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-15R		Lab ID: 92528787018		Collected: 03/18/21 12:06		Received: 03/19/21 13:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.58	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 09:05	7440-66-6	
Calcium	42.1	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 09:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00045J	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 22:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 22:58	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 22:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 22:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 22:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 22:58	7440-43-9	
Chromium	0.00089J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 22:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 22:58	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 22:58	7440-50-8	
Lead	0.00036J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 22:58	7439-92-1	
Nickel	0.00079J	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 22:58	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 22:58	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 22:58	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 22:58	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 22:58	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	153	mg/L	10.0	10.0	1		03/24/21 09:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.7	mg/L	1.0	0.60	1		03/25/21 15:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 15:24	16984-48-8	
Sulfate	10.4	mg/L	1.0	0.50	1		03/25/21 15:24	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-15Z **Lab ID: 92528787019** Collected: 03/18/21 13:55 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.87	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 16:12	7440-66-6	
Calcium	27.4	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 16:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 23:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 23:03	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 23:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 23:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 23:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 23:03	7440-43-9	
Chromium	0.00078J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 23:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 23:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 23:03	7440-50-8	
Lead	0.000040J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 23:03	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 23:03	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 23:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 23:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 23:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 23:03	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	54.0	mg/L	10.0	10.0	1		03/24/21 09:47		
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		03/25/21 15:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 15:37	16984-48-8	
Sulfate	0.76J	mg/L	1.0	0.50	1		03/25/21 15:37	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: DUP-2 **Lab ID: 92528787020** Collected: 03/18/21 00:00 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 13:03	03/31/21 09:21	7440-66-6	
Calcium	10.2	mg/L	1.0	0.070	1	03/30/21 13:03	03/31/21 09:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 09:46	03/31/21 23:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 09:46	03/31/21 23:15	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/31/21 09:46	03/31/21 23:15	7440-39-3	
Beryllium	0.000087J	mg/L	0.00050	0.000046	1	03/31/21 09:46	03/31/21 23:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 09:46	03/31/21 23:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 09:46	03/31/21 23:15	7440-43-9	
Chromium	0.0022J	mg/L	0.0050	0.00055	1	03/31/21 09:46	03/31/21 23:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 09:46	03/31/21 23:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 09:46	03/31/21 23:15	7440-50-8	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/31/21 09:46	03/31/21 23:15	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 09:46	03/31/21 23:15	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 09:46	03/31/21 23:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 09:46	03/31/21 23:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 09:46	03/31/21 23:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 09:46	03/31/21 23:15	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/24/21 09:47		
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		03/25/21 16:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 16:18	16984-48-8	
Sulfate	1.0	mg/L	1.0	0.50	1		03/25/21 16:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: FB-3 **Lab ID: 92528787021** Collected: 03/18/21 15:28 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 16:39	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 16:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 13:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 13:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 13:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 13:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 13:09	7440-42-8	
Cadmium	0.00035J	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 13:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 13:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 13:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 13:09	7440-50-8	
Lead	0.000038J	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 13:09	7439-92-1	B
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 13:09	7440-02-0	
Selenium	0.0032J	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 13:09	7782-49-2	B
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 13:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 13:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 13:09	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/21 09:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/25/21 16:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 16:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/25/21 16:59	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWA-2 **Lab ID: 92528787022** Collected: 03/17/21 12:24 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.58	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 16:58	7440-66-6	
Calcium	40.4	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 16:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 13:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 13:14	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 13:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 13:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 13:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 13:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 13:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 13:14	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 13:14	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 13:14	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 13:14	7440-02-0	
Selenium	0.0045J	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 13:14	7782-49-2	B
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 13:14	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 13:14	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 13:14	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	211	mg/L	10.0	10.0	1		03/23/21 08:42		
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		03/25/21 17:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 17:13	16984-48-8	
Sulfate	90.7	mg/L	1.0	0.50	1		03/25/21 17:13	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-5 **Lab ID: 92528787023** Collected: 03/17/21 14:20 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	5.85	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.027	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:03	7440-66-6	
Calcium	3.0	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 13:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 13:37	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 13:37	7440-39-3	
Beryllium	0.00061	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 13:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 13:37	7440-42-8	
Cadmium	0.00013J	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 13:37	7440-43-9	
Chromium	0.00069J	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 13:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 13:37	7440-48-4	
Copper	0.019	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 13:37	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 13:37	7439-92-1	
Nickel	0.0077	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 13:37	7440-02-0	
Selenium	0.0019J	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 13:37	7782-49-2	B
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 13:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 13:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 13:37	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	15.0	mg/L	10.0	10.0	1		03/23/21 08:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.69J	mg/L	1.0	0.60	1		03/25/21 17:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 17:26	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		03/25/21 17:26	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-6 **Lab ID: 92528787024** Collected: 03/17/21 15:16 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.57	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:08	7440-66-6	
Calcium	14.1	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 13:43	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 13:43	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 13:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 13:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 13:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 13:43	7440-43-9	
Chromium	0.0027J	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 13:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 13:43	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 13:43	7440-50-8	
Lead	0.000074J	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 13:43	7439-92-1	B
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 13:43	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/02/21 17:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 13:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 13:43	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 13:43	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	47.0	mg/L	10.0	10.0	1		03/23/21 08:42		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/25/21 17:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 17:40	16984-48-8	
Sulfate	2.2	mg/L	1.0	0.50	1		03/25/21 17:40	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-6RZ		Lab ID: 92528787025		Collected: 03/17/21 13:51		Received: 03/19/21 13:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.03	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:13	7440-66-6	
Calcium	9.5	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 13:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 13:49	7440-38-2	
Barium	0.0072	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 13:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 13:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 13:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 13:49	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 13:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 13:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 13:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 13:49	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 13:49	7440-02-0	
Selenium	0.0038J	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 13:49	7782-49-2	B
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 13:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 13:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 13:49	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	43.0	mg/L	10.0	10.0	1		03/23/21 08:42		
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		03/25/21 17:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 17:54	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.50	1		03/25/21 17:54	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWC-7Z **Lab ID: 92528787026** Collected: 03/17/21 16:34 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	7.52	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:17	7440-66-6	
Calcium	23.9	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00099J	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 14:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 14:18	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 14:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 14:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 14:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 14:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 14:18	7440-47-3	
Cobalt	0.00045J	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 14:18	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 14:18	7440-50-8	
Lead	0.000049J	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 14:18	7439-92-1	B
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 14:18	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 14:18	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 14:18	7440-22-4	
Thallium	0.00015J	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 14:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 14:18	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	112	mg/L	10.0	10.0	1		03/23/21 08:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	0.79J	mg/L	1.0	0.60	1		03/25/21 18:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 18:07	16984-48-8	
Sulfate	1.3	mg/L	1.0	0.50	1		03/25/21 18:07	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWC-8RR	Lab ID: 92528787027	Collected: 03/17/21 16:17	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	8.08	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:22	7440-66-6	
Calcium	22.4	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 14:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 14:23	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 14:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 14:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 14:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 14:23	7440-43-9	
Chromium	0.00079J	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 14:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 14:23	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 14:23	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 14:23	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 14:23	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 14:23	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 14:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 14:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 14:23	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	113	mg/L	10.0	10.0	1		03/23/21 08:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.78J	mg/L	1.0	0.60	1		03/25/21 18:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 18:21	16984-48-8	
Sulfate	0.72J	mg/L	1.0	0.50	1		03/25/21 18:21	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWA-50 **Lab ID: 92528787028** Collected: 03/17/21 12:16 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	5.64	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:39	7440-66-6	
Calcium	1.4	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 14:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 14:29	7440-38-2	
Barium	0.0074	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 14:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 14:29	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 14:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 14:29	7440-48-4	
Copper	0.0019J	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 14:29	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 14:29	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 14:29	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/02/21 17:10	7782-49-2	
Silver	0.00044J	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 14:29	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 14:29	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 14:29	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/21 08:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.0J	mg/L	1.0	0.60	1		03/25/21 18:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 18:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/25/21 18:35	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Sample: GWA-50R **Lab ID: 92528787029** Collected: 03/17/21 14:29 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 12:00		
pH	6.31	Std. Units			1		03/22/21 12:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:44	7440-66-6	
Calcium	5.4	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:44	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 14:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 14:35	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 14:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 14:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 14:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 14:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 14:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 14:35	7440-48-4	
Copper	0.0024J	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 14:35	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 14:35	7439-92-1	
Nickel	0.0012J	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 14:35	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 14:35	7782-49-2	
Silver	0.0026J	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 14:35	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 14:35	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 14:35	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	31.0	mg/L	10.0	10.0	1		03/23/21 08:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.81J	mg/L	1.0	0.60	1		03/25/21 21:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 21:19	16984-48-8	
Sulfate	0.86J	mg/L	1.0	0.50	1		03/25/21 21:19	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: FB-2 **Lab ID: 92528787030** Collected: 03/17/21 16:08 Received: 03/19/21 13:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/30/21 12:37	03/30/21 17:49	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/30/21 12:37	03/30/21 17:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/31/21 10:24	04/01/21 14:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/31/21 10:24	04/01/21 14:41	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/31/21 10:24	04/01/21 14:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/31/21 10:24	04/01/21 14:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/31/21 10:24	04/01/21 14:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/31/21 10:24	04/01/21 14:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/31/21 10:24	04/01/21 14:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/31/21 10:24	04/01/21 14:41	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/31/21 10:24	04/01/21 14:41	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/31/21 10:24	04/01/21 14:41	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/31/21 10:24	04/01/21 14:41	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/31/21 10:24	04/01/21 14:41	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/31/21 10:24	04/01/21 14:41	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/31/21 10:24	04/01/21 14:41	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/31/21 10:24	04/01/21 14:41	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/29/21 15:00	03/30/21 09:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/21 08:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/25/21 21:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/25/21 21:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/25/21 21:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: FB-5 **Lab ID: 92528787031** Collected: 03/29/21 16:32 Received: 03/31/21 09:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 20:10	7440-70-2	
Zinc	ND	mg/L	0.020	0.0035	1	04/02/21 11:09	04/05/21 14:08	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:34	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:34	7440-43-9	
Chromium	0.0027J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:34	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	04/02/21 11:47	04/05/21 18:34	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:34	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	04/02/21 11:47	04/05/21 18:34	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:34	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	04/02/21 11:47	04/05/21 18:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	04/02/21 11:47	04/05/21 18:34	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 12:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/05/21 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		04/04/21 21:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/04/21 21:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/04/21 21:59	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Sample: GWA-3A	Lab ID: 92528787032	Collected: 03/29/21 11:14	Received: 03/31/21 09:38	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/01/21 09:39		
pH	8.04	Std. Units			1		04/01/21 09:39		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	19.0	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 20:14	7440-70-2	
Zinc	ND	mg/L	0.020	0.0035	1	04/02/21 11:09	04/05/21 14:13	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:39	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:39	7440-38-2	
Barium	0.0073	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:39	7440-43-9	
Chromium	0.00062J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	04/02/21 11:47	04/05/21 18:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:39	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	04/02/21 11:47	04/05/21 18:39	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	04/02/21 11:47	04/05/21 18:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	04/02/21 11:47	04/05/21 18:39	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 12:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	76.0	mg/L	10.0	10.0	1		04/05/21 18:12		
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		04/04/21 22:44	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		04/04/21 22:44	16984-48-8	
Sulfate	5.4	mg/L	1.0	0.50	1		04/04/21 22:44	14808-79-8	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	610183	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020		

METHOD BLANK:	3213138	Matrix:	Water
Associated Lab Samples:	92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/31/21 09:12	
Zinc	mg/L	ND	0.020	0.0035	03/31/21 09:12	

LABORATORY CONTROL SAMPLE:	3213139					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Zinc	mg/L	1	0.92	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3213180			3213181								
Parameter	Units	92528787005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	53.7	1	1	52.6	54.2	-110	46	75-125	3	20	
Zinc	mg/L	ND	1	1	0.94	0.95	94	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 610184 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

METHOD BLANK: 3213143 Matrix: Water
 Associated Lab Samples: 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/30/21 15:42	
Zinc	mg/L	ND	0.020	0.0035	03/30/21 15:42	

LABORATORY CONTROL SAMPLE: 3213144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Zinc	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213145 3213146

Parameter	Units	3213145		3213146		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Calcium	mg/L	ND	1	1	1.0	1.0	103	100	75-125	2	20
Zinc	mg/L	ND	1	1	0.96	0.95	96	95	75-125	2	20

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch: 611093	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92528787031, 92528787032

METHOD BLANK: 3217504 Matrix: Water

Associated Lab Samples: 92528787031, 92528787032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/02/21 17:50	
Zinc	mg/L	ND	0.020	0.0035	04/05/21 13:38	

LABORATORY CONTROL SAMPLE: 3217505

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217506 3217507

Parameter	Units	92529897001		3217506		3217507		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Calcium	mg/L	22.1	1	1	22.5	22.7	38	59	75-125	1	20 M1
Zinc	mg/L	ND	1	1	0.97	0.98	97	98	75-125	1	20

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch: 610280 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020

METHOD BLANK: 3213634 Matrix: Water
 Associated Lab Samples: 92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/31/21 20:29	
Arsenic	mg/L	ND	0.0050	0.00078	03/31/21 20:29	
Barium	mg/L	ND	0.0050	0.00071	03/31/21 20:29	
Beryllium	mg/L	ND	0.00050	0.000046	03/31/21 20:29	
Boron	mg/L	ND	0.040	0.0052	03/31/21 20:29	
Cadmium	mg/L	ND	0.00050	0.00012	03/31/21 20:29	
Chromium	mg/L	ND	0.0050	0.00055	03/31/21 20:29	
Cobalt	mg/L	ND	0.0050	0.00038	03/31/21 20:29	
Copper	mg/L	ND	0.0050	0.0017	03/31/21 20:29	
Lead	mg/L	ND	0.0010	0.000036	03/31/21 20:29	
Nickel	mg/L	ND	0.0050	0.00069	03/31/21 20:29	
Selenium	mg/L	ND	0.0050	0.0016	03/31/21 20:29	
Silver	mg/L	ND	0.0050	0.00036	03/31/21 20:29	
Thallium	mg/L	ND	0.0010	0.00014	03/31/21 20:29	
Vanadium	mg/L	ND	0.010	0.0022	03/31/21 20:29	

LABORATORY CONTROL SAMPLE: 3213635

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	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Copper	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Parameter	Units	3213636		3213637		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92528787003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	0.0014J	0.1	0.1	0.10	0.10	99	102	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Barium	mg/L	0.018	0.1	0.1	0.12	0.12	97	101	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.10	96	100	75-125	4	20	
Boron	mg/L	ND	1	1	0.96	1.0	96	100	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.10	96	100	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.097	0.099	97	98	75-125	1	20	
Copper	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lead	mg/L	0.000052J	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Nickel	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.093	0.097	92	96	75-125	4	20	
Silver	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	2	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	99	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 610281 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

METHOD BLANK: 3213638 Matrix: Water
 Associated Lab Samples: 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/01/21 12:57	
Arsenic	mg/L	ND	0.0050	0.00078	04/01/21 12:57	
Barium	mg/L	ND	0.0050	0.00071	04/01/21 12:57	
Beryllium	mg/L	ND	0.00050	0.000046	04/01/21 12:57	
Boron	mg/L	ND	0.040	0.0052	04/01/21 12:57	
Cadmium	mg/L	ND	0.00050	0.00012	04/01/21 12:57	
Chromium	mg/L	ND	0.0050	0.00055	04/01/21 12:57	
Cobalt	mg/L	ND	0.0050	0.00038	04/01/21 12:57	
Copper	mg/L	ND	0.0050	0.0017	04/01/21 12:57	
Lead	mg/L	0.000046J	0.0010	0.000036	04/01/21 12:57	
Nickel	mg/L	ND	0.0050	0.00069	04/01/21 12:57	
Selenium	mg/L	0.0017J	0.0050	0.0016	04/01/21 12:57	
Silver	mg/L	ND	0.0050	0.00036	04/01/21 12:57	
Thallium	mg/L	ND	0.0010	0.00014	04/01/21 12:57	
Vanadium	mg/L	ND	0.010	0.0022	04/01/21 12:57	

LABORATORY CONTROL SAMPLE: 3213639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Copper	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.11	108	80-120	
Silver	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	
Vanadium	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Parameter	Units	92528787022		3213640		3213641		% 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	0.10	0.11	100	107	75-125	6	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20			
Barium	mg/L	0.025	0.1	0.1	0.12	0.13	97	102	75-125	4	20			
Beryllium	mg/L	ND	0.1	0.1	0.093	0.097	93	97	75-125	3	20			
Boron	mg/L	ND	1	1	0.95	0.98	95	98	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	2	20			
Chromium	mg/L	ND	0.1	0.1	0.096	0.10	95	100	75-125	4	20			
Cobalt	mg/L	ND	0.1	0.1	0.095	0.098	95	98	75-125	3	20			
Copper	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	5	20			
Nickel	mg/L	ND	0.1	0.1	0.094	0.097	93	97	75-125	3	20			
Selenium	mg/L	0.0045J	0.1	0.1	0.095	0.11	90	101	75-125	11	20			
Silver	mg/L	ND	0.1	0.1	0.090	0.096	90	96	75-125	6	20			
Thallium	mg/L	ND	0.1	0.1	0.094	0.097	94	97	75-125	3	20			
Vanadium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	2	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	611110	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92528787031, 92528787032

METHOD BLANK: 3217587 Matrix: Water

Associated Lab Samples: 92528787031, 92528787032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/05/21 15:38	
Arsenic	mg/L	ND	0.0050	0.00078	04/05/21 15:38	
Barium	mg/L	ND	0.0050	0.00071	04/05/21 15:38	
Beryllium	mg/L	ND	0.00050	0.000046	04/05/21 15:38	
Boron	mg/L	ND	0.040	0.0052	04/05/21 15:38	
Cadmium	mg/L	ND	0.00050	0.00012	04/05/21 15:38	
Chromium	mg/L	ND	0.0050	0.00055	04/05/21 15:38	
Cobalt	mg/L	ND	0.0050	0.00038	04/05/21 15:38	
Copper	mg/L	ND	0.0050	0.0017	04/05/21 15:38	
Lead	mg/L	ND	0.0010	0.000036	04/05/21 15:38	
Nickel	mg/L	ND	0.0050	0.00069	04/05/21 15:38	
Selenium	mg/L	ND	0.0050	0.0016	04/05/21 15:38	
Silver	mg/L	ND	0.0050	0.00036	04/05/21 15:38	
Thallium	mg/L	ND	0.0010	0.00014	04/05/21 15:38	
Vanadium	mg/L	ND	0.010	0.0022	04/05/21 15:38	

LABORATORY CONTROL SAMPLE: 3217588

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	0.093	93	80-120	
Barium	mg/L	0.1	0.091	91	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Copper	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Nickel	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Silver	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	
Vanadium	mg/L	0.1	0.098	98	80-120	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Parameter	Units	3217589		3217590		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92529897002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	3	20	
Arsenic	mg/L	0.0011J	0.1	0.1	0.098	0.097	97	96	75-125	1	20	
Barium	mg/L	0.013	0.1	0.1	0.11	0.11	97	95	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Boron	mg/L	ND	1	1	1.0	1.0	100	101	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	4	20	
Chromium	mg/L	0.00060J	0.1	0.1	0.10	0.098	100	97	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Copper	mg/L	ND	0.1	0.1	0.098	0.094	98	94	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Nickel	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	93	91	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 609304 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787001, 92528787002, 92528787003

METHOD BLANK: 3209294 Matrix: Water
 Associated Lab Samples: 92528787001, 92528787002, 92528787003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/26/21 09:02	

LABORATORY CONTROL SAMPLE: 3209295

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: 3209296 3209297

Parameter	Units	3209296		3209297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.40 ug/L	0.0025	0.0025	0.0028	0.0028	98	95	75-125	3	20

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	609638	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021, 92528787022, 92528787023		

METHOD BLANK:	3211055	Matrix:	Water
Associated Lab Samples:	92528787004, 92528787005, 92528787006, 92528787007, 92528787008, 92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021, 92528787022, 92528787023		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/30/21 10:09	

LABORATORY CONTROL SAMPLE:	3211056					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3211057			3211058								
Parameter	Units	92528787004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0020	95	78	75-125	19	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	609643	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

METHOD BLANK: 3211070 Matrix: Water
 Associated Lab Samples: 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/30/21 09:00	

LABORATORY CONTROL SAMPLE: 3211071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3211072 3211073

Parameter	Units	3211072		3211073		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	101	96	75-125	4	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 613662 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787031, 92528787032

METHOD BLANK: 3229692 Matrix: Water
 Associated Lab Samples: 92528787031, 92528787032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/15/21 12:20	

LABORATORY CONTROL SAMPLE: 3229693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3229694 3229695

Parameter	Units	92528787032		3229695		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	0.0023	0.0022	91	89	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 608136 Analysis Method: SM 2540C-2011
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787001, 92528787002, 92528787003

METHOD BLANK: 3203650 Matrix: Water
 Associated Lab Samples: 92528787001, 92528787002, 92528787003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/23/21 07:58	

LABORATORY CONTROL SAMPLE: 3203651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	414	104	90-111	

SAMPLE DUPLICATE: 3203652

Parameter	Units	92527612006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	99.0	97.0	2	10	

SAMPLE DUPLICATE: 3203653

Parameter	Units	92528339001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	952	1020	7	10	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch: 608146

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92528787004, 92528787005

METHOD BLANK: 3203677

Matrix: Water

Associated Lab Samples: 92528787004, 92528787005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/23/21 07:38	

LABORATORY CONTROL SAMPLE: 3203678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	401	100	90-111	

SAMPLE DUPLICATE: 3203679

Parameter	Units	92527268006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	490	502	2	10	H1

SAMPLE DUPLICATE: 3203680

Parameter	Units	92528629001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	158	72.0	75	10	D6

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch: 608443 Analysis Method: SM 2540C-2011
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

METHOD BLANK: 3204949 Matrix: Water
 Associated Lab Samples: 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028, 92528787029, 92528787030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/23/21 08:29	

LABORATORY CONTROL SAMPLE: 3204950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	398	100	90-111	

SAMPLE DUPLICATE: 3204951

Parameter	Units	92527612008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	213	225	5	10	

SAMPLE DUPLICATE: 3204952

Parameter	Units	92528787024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	47.0	72.0	42	10 D6	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 608782 Analysis Method: SM 2540C-2011
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021

METHOD BLANK: 3206529 Matrix: Water
 Associated Lab Samples: 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/24/21 09:45	

LABORATORY CONTROL SAMPLE: 3206530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3206531

Parameter	Units	92528525004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	125	186	39	10	D6

SAMPLE DUPLICATE: 3206532

Parameter	Units	92528787016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	82.0	95.0	15	10	D6

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 608913 Analysis Method: SM 2540C-2011
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787006, 92528787007, 92528787008

METHOD BLANK: 3207223 Matrix: Water
 Associated Lab Samples: 92528787006, 92528787007, 92528787008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/25/21 11:08	

LABORATORY CONTROL SAMPLE: 3207224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	90-111	

SAMPLE DUPLICATE: 3207225

Parameter	Units	92528809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1170	1110	5	10	

SAMPLE DUPLICATE: 3207226

Parameter	Units	92527612014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	255	213	18	10 D6	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	609221	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92528787009, 92528787010, 92528787011

METHOD BLANK: 3208754 Matrix: Water

Associated Lab Samples: 92528787009, 92528787010, 92528787011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/26/21 09:30	

LABORATORY CONTROL SAMPLE: 3208755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	90-111	

SAMPLE DUPLICATE: 3208757

Parameter	Units	92527612017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	371	403	8	10	

SAMPLE DUPLICATE: 3208759

Parameter	Units	92528787009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	250	243	3	10	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 611498 Analysis Method: SM 2540C-2011
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92528787031, 92528787032

METHOD BLANK: 3219167 Matrix: Water
 Associated Lab Samples: 92528787031, 92528787032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/05/21 18:12	

LABORATORY CONTROL SAMPLE: 3219168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	90-111	

SAMPLE DUPLICATE: 3219169

Parameter	Units	92528787031 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3219170

Parameter	Units	92529897035 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	570	508	12	10	D6

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	608452	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:	92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008		

METHOD BLANK:	3204980	Matrix:	Water
Associated Lab Samples:	92528787001, 92528787002, 92528787003, 92528787004, 92528787005, 92528787006, 92528787007, 92528787008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/24/21 04:36	
Fluoride	mg/L	ND	0.10	0.050	03/24/21 04:36	
Sulfate	mg/L	ND	1.0	0.50	03/24/21 04:36	

LABORATORY CONTROL SAMPLE: 3204981						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204982												3204983	
Parameter	Units	92528809002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	85.7	50	50	118	119	65	67	90-110	1	10	M6	
Fluoride	mg/L	0.090J	2.5	2.5	2.6	2.6	100	102	90-110	2	10		
Sulfate	mg/L	609	50	50	650	660	82	103	90-110	2	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204984												3204985	
Parameter	Units	92527492024 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	48.0	51.4	96	103	90-110	7	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	92	96	90-110	5	10		
Sulfate	mg/L	ND	50	50	48.0	51.2	96	102	90-110	7	10		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	608453	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:	92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028		

METHOD BLANK:	3204986	Matrix:	Water
Associated Lab Samples:	92528787009, 92528787010, 92528787011, 92528787012, 92528787013, 92528787014, 92528787015, 92528787016, 92528787017, 92528787018, 92528787019, 92528787020, 92528787021, 92528787022, 92528787023, 92528787024, 92528787025, 92528787026, 92528787027, 92528787028		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/25/21 11:41	
Fluoride	mg/L	ND	0.10	0.050	03/25/21 11:41	
Sulfate	mg/L	ND	1.0	0.50	03/25/21 11:41	

LABORATORY CONTROL SAMPLE: 3204987						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	54.6	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204988												3204989	
Parameter	Units	92528787009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
													Chloride
Fluoride	mg/L	0.12	2.5	2.5	2.7	2.7	105	104	90-110	1	10		
Sulfate	mg/L	74.2	50	50	117	117	86	85	90-110	0	10 M1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204990												3204991	
Parameter	Units	92528787019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
													Chloride
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	1	10		
Sulfate	mg/L	0.76J	50	50	53.6	53.3	106	105	90-110	1	10		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

QC Batch:	608857	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: 92528787029, 92528787030

METHOD BLANK: 3206837 Matrix: Water

Associated Lab Samples: 92528787029, 92528787030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/25/21 18:48	
Fluoride	mg/L	ND	0.10	0.050	03/25/21 18:48	
Sulfate	mg/L	ND	1.0	0.50	03/25/21 18:48	

LABORATORY CONTROL SAMPLE: 3206838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.4	105	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	53.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206839 3206840

Parameter	Units	92527256017		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	138	50	50	50	182	183	88	90	90-110	1	10	M6	
Fluoride	mg/L	0.057J	2.5	2.5	2.5	2.8	2.8	108	108	90-110	0	10		
Sulfate	mg/L	447	50	50	50	490	492	86	91	90-110	0	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206841 3206842

Parameter	Units	92527612015		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	4.3	50	50	50	56.2	56.5	104	104	90-110	0	10		
Fluoride	mg/L	0.079J	2.5	2.5	2.5	2.7	2.7	105	106	90-110	1	10		
Sulfate	mg/L	87.8	50	50	50	128	129	81	82	90-110	0	10	M1	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

QC Batch: 611237 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: 92528787031, 92528787032

METHOD BLANK: 3218300 Matrix: Water
 Associated Lab Samples: 92528787031, 92528787032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/04/21 18:15	
Fluoride	mg/L	ND	0.10	0.050	04/04/21 18:15	
Sulfate	mg/L	ND	1.0	0.50	04/04/21 18:15	

LABORATORY CONTROL SAMPLE: 3218301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.3	92	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3218302 3218303

Parameter	Units	92530924001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	2680	50	50	4970	4770	4590	4200	90-110	4	10	M6	
Fluoride	mg/L	ND	2.5	2.5	29.8	29.2	1190	1170	90-110	2	10	M6	
Sulfate	mg/L	2220	50	50	4220	3950	3980	3450	90-110	6	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3218304 3218305

Parameter	Units	92528787031		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	ND	50	50	52.7	51.9	105	104	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	2	10		
Sulfate	mg/L	ND	50	50	52.5	51.6	105	103	90-110	2	10		

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QUALIFIERS

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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

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: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92528787003	GWA-1				
92528787004	GWA-2R				
92528787005	GWA-4RZ				
92528787006	GWC-11				
92528787007	GWC-11R				
92528787008	GWC-12				
92528787009	GWC-13RZ				
92528787012	GWC-8Z				
92528787013	GWC-9				
92528787014	GWC-10				
92528787015	GWC-10R				
92528787016	GWC-13				
92528787017	GWC-14Z				
92528787018	GWC-15R				
92528787019	GWC-15Z				
92528787022	GWA-2				
92528787023	GWC-5				
92528787024	GWC-6				
92528787025	GWC-6RZ				
92528787026	GWC-7Z				
92528787027	GWC-8RR				
92528787028	GWA-50				
92528787029	GWA-50R				
92528787032	GWA-3A				
92528787001	FB-1	EPA 3010A	610183	EPA 6010D	610258
92528787002	DUP-1	EPA 3010A	610183	EPA 6010D	610258
92528787003	GWA-1	EPA 3010A	610183	EPA 6010D	610258
92528787004	GWA-2R	EPA 3010A	610183	EPA 6010D	610258
92528787005	GWA-4RZ	EPA 3010A	610183	EPA 6010D	610258
92528787006	GWC-11	EPA 3010A	610183	EPA 6010D	610258
92528787007	GWC-11R	EPA 3010A	610183	EPA 6010D	610258
92528787008	GWC-12	EPA 3010A	610183	EPA 6010D	610258
92528787009	GWC-13RZ	EPA 3010A	610183	EPA 6010D	610258
92528787010	DUP-3	EPA 3010A	610183	EPA 6010D	610258
92528787011	FB-4	EPA 3010A	610183	EPA 6010D	610258
92528787012	GWC-8Z	EPA 3010A	610183	EPA 6010D	610258
92528787013	GWC-9	EPA 3010A	610183	EPA 6010D	610258
92528787014	GWC-10	EPA 3010A	610183	EPA 6010D	610258
92528787015	GWC-10R	EPA 3010A	610183	EPA 6010D	610258
92528787016	GWC-13	EPA 3010A	610183	EPA 6010D	610258
92528787017	GWC-14Z	EPA 3010A	610183	EPA 6010D	610258
92528787018	GWC-15R	EPA 3010A	610183	EPA 6010D	610258
92528787019	GWC-15Z	EPA 3010A	610183	EPA 6010D	610258
92528787020	DUP-2	EPA 3010A	610183	EPA 6010D	610258
92528787021	FB-3	EPA 3010A	610184	EPA 6010D	610244
92528787022	GWA-2	EPA 3010A	610184	EPA 6010D	610244
92528787023	GWC-5	EPA 3010A	610184	EPA 6010D	610244
92528787024	GWC-6	EPA 3010A	610184	EPA 6010D	610244

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 1&2
 Pace Project No.: 92528787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92528787025	GWC-6RZ	EPA 3010A	610184	EPA 6010D	610244
92528787026	GWC-7Z	EPA 3010A	610184	EPA 6010D	610244
92528787027	GWC-8RR	EPA 3010A	610184	EPA 6010D	610244
92528787028	GWA-50	EPA 3010A	610184	EPA 6010D	610244
92528787029	GWA-50R	EPA 3010A	610184	EPA 6010D	610244
92528787030	FB-2	EPA 3010A	610184	EPA 6010D	610244
92528787031	FB-5	EPA 3010A	611093	EPA 6010D	611154
92528787032	GWA-3A	EPA 3010A	611093	EPA 6010D	611154
92528787001	FB-1	EPA 3005A	610280	EPA 6020B	610490
92528787002	DUP-1	EPA 3005A	610280	EPA 6020B	610490
92528787003	GWA-1	EPA 3005A	610280	EPA 6020B	610490
92528787004	GWA-2R	EPA 3005A	610280	EPA 6020B	610490
92528787005	GWA-4RZ	EPA 3005A	610280	EPA 6020B	610490
92528787006	GWC-11	EPA 3005A	610280	EPA 6020B	610490
92528787007	GWC-11R	EPA 3005A	610280	EPA 6020B	610490
92528787008	GWC-12	EPA 3005A	610280	EPA 6020B	610490
92528787009	GWC-13RZ	EPA 3005A	610280	EPA 6020B	610490
92528787010	DUP-3	EPA 3005A	610280	EPA 6020B	610490
92528787011	FB-4	EPA 3005A	610280	EPA 6020B	610490
92528787012	GWC-8Z	EPA 3005A	610280	EPA 6020B	610490
92528787013	GWC-9	EPA 3005A	610280	EPA 6020B	610490
92528787014	GWC-10	EPA 3005A	610280	EPA 6020B	610490
92528787015	GWC-10R	EPA 3005A	610280	EPA 6020B	610490
92528787016	GWC-13	EPA 3005A	610280	EPA 6020B	610490
92528787017	GWC-14Z	EPA 3005A	610280	EPA 6020B	610490
92528787018	GWC-15R	EPA 3005A	610280	EPA 6020B	610490
92528787019	GWC-15Z	EPA 3005A	610280	EPA 6020B	610490
92528787020	DUP-2	EPA 3005A	610280	EPA 6020B	610490
92528787021	FB-3	EPA 3005A	610281	EPA 6020B	610489
92528787022	GWA-2	EPA 3005A	610281	EPA 6020B	610489
92528787023	GWC-5	EPA 3005A	610281	EPA 6020B	610489
92528787024	GWC-6	EPA 3005A	610281	EPA 6020B	610489
92528787025	GWC-6RZ	EPA 3005A	610281	EPA 6020B	610489
92528787026	GWC-7Z	EPA 3005A	610281	EPA 6020B	610489
92528787027	GWC-8RR	EPA 3005A	610281	EPA 6020B	610489
92528787028	GWA-50	EPA 3005A	610281	EPA 6020B	610489
92528787029	GWA-50R	EPA 3005A	610281	EPA 6020B	610489
92528787030	FB-2	EPA 3005A	610281	EPA 6020B	610489
92528787031	FB-5	EPA 3005A	611110	EPA 6020B	611177
92528787032	GWA-3A	EPA 3005A	611110	EPA 6020B	611177
92528787001	FB-1	EPA 7470A	609304	EPA 7470A	609353
92528787002	DUP-1	EPA 7470A	609304	EPA 7470A	609353
92528787003	GWA-1	EPA 7470A	609304	EPA 7470A	609353
92528787004	GWA-2R	EPA 7470A	609638	EPA 7470A	610020
92528787005	GWA-4RZ	EPA 7470A	609638	EPA 7470A	610020
92528787006	GWC-11	EPA 7470A	609638	EPA 7470A	610020

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92528787007	GWC-11R	EPA 7470A	609638	EPA 7470A	610020
92528787008	GWC-12	EPA 7470A	609638	EPA 7470A	610020
92528787009	GWC-13RZ	EPA 7470A	609638	EPA 7470A	610020
92528787010	DUP-3	EPA 7470A	609638	EPA 7470A	610020
92528787011	FB-4	EPA 7470A	609638	EPA 7470A	610020
92528787012	GWC-8Z	EPA 7470A	609638	EPA 7470A	610020
92528787013	GWC-9	EPA 7470A	609638	EPA 7470A	610020
92528787014	GWC-10	EPA 7470A	609638	EPA 7470A	610020
92528787015	GWC-10R	EPA 7470A	609638	EPA 7470A	610020
92528787016	GWC-13	EPA 7470A	609638	EPA 7470A	610020
92528787017	GWC-14Z	EPA 7470A	609638	EPA 7470A	610020
92528787018	GWC-15R	EPA 7470A	609638	EPA 7470A	610020
92528787019	GWC-15Z	EPA 7470A	609638	EPA 7470A	610020
92528787020	DUP-2	EPA 7470A	609638	EPA 7470A	610020
92528787021	FB-3	EPA 7470A	609638	EPA 7470A	610020
92528787022	GWA-2	EPA 7470A	609638	EPA 7470A	610020
92528787023	GWC-5	EPA 7470A	609638	EPA 7470A	610020
92528787024	GWC-6	EPA 7470A	609643	EPA 7470A	610019
92528787025	GWC-6RZ	EPA 7470A	609643	EPA 7470A	610019
92528787026	GWC-7Z	EPA 7470A	609643	EPA 7470A	610019
92528787027	GWC-8RR	EPA 7470A	609643	EPA 7470A	610019
92528787028	GWA-50	EPA 7470A	609643	EPA 7470A	610019
92528787029	GWA-50R	EPA 7470A	609643	EPA 7470A	610019
92528787030	FB-2	EPA 7470A	609643	EPA 7470A	610019
92528787031	FB-5	EPA 7470A	613662	EPA 7470A	613871
92528787032	GWA-3A	EPA 7470A	613662	EPA 7470A	613871
92528787001	FB-1	SM 2540C-2011	608136		
92528787002	DUP-1	SM 2540C-2011	608136		
92528787003	GWA-1	SM 2540C-2011	608136		
92528787004	GWA-2R	SM 2540C-2011	608146		
92528787005	GWA-4RZ	SM 2540C-2011	608146		
92528787006	GWC-11	SM 2540C-2011	608913		
92528787007	GWC-11R	SM 2540C-2011	608913		
92528787008	GWC-12	SM 2540C-2011	608913		
92528787009	GWC-13RZ	SM 2540C-2011	609221		
92528787010	DUP-3	SM 2540C-2011	609221		
92528787011	FB-4	SM 2540C-2011	609221		
92528787012	GWC-8Z	SM 2540C-2011	608782		
92528787013	GWC-9	SM 2540C-2011	608782		
92528787014	GWC-10	SM 2540C-2011	608782		
92528787015	GWC-10R	SM 2540C-2011	608782		
92528787016	GWC-13	SM 2540C-2011	608782		
92528787017	GWC-14Z	SM 2540C-2011	608782		
92528787018	GWC-15R	SM 2540C-2011	608782		
92528787019	GWC-15Z	SM 2540C-2011	608782		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 1&2

Pace Project No.: 92528787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92528787020	DUP-2	SM 2540C-2011	608782		
92528787021	FB-3	SM 2540C-2011	608782		
92528787022	GWA-2	SM 2540C-2011	608443		
92528787023	GWC-5	SM 2540C-2011	608443		
92528787024	GWC-6	SM 2540C-2011	608443		
92528787025	GWC-6RZ	SM 2540C-2011	608443		
92528787026	GWC-7Z	SM 2540C-2011	608443		
92528787027	GWC-8RR	SM 2540C-2011	608443		
92528787028	GWA-50	SM 2540C-2011	608443		
92528787029	GWA-50R	SM 2540C-2011	608443		
92528787030	FB-2	SM 2540C-2011	608443		
92528787031	FB-5	SM 2540C-2011	611498		
92528787032	GWA-3A	SM 2540C-2011	611498		
92528787001	FB-1	EPA 300.0 Rev 2.1 1993	608452		
92528787002	DUP-1	EPA 300.0 Rev 2.1 1993	608452		
92528787003	GWA-1	EPA 300.0 Rev 2.1 1993	608452		
92528787004	GWA-2R	EPA 300.0 Rev 2.1 1993	608452		
92528787005	GWA-4RZ	EPA 300.0 Rev 2.1 1993	608452		
92528787006	GWC-11	EPA 300.0 Rev 2.1 1993	608452		
92528787007	GWC-11R	EPA 300.0 Rev 2.1 1993	608452		
92528787008	GWC-12	EPA 300.0 Rev 2.1 1993	608452		
92528787009	GWC-13RZ	EPA 300.0 Rev 2.1 1993	608453		
92528787010	DUP-3	EPA 300.0 Rev 2.1 1993	608453		
92528787011	FB-4	EPA 300.0 Rev 2.1 1993	608453		
92528787012	GWC-8Z	EPA 300.0 Rev 2.1 1993	608453		
92528787013	GWC-9	EPA 300.0 Rev 2.1 1993	608453		
92528787014	GWC-10	EPA 300.0 Rev 2.1 1993	608453		
92528787015	GWC-10R	EPA 300.0 Rev 2.1 1993	608453		
92528787016	GWC-13	EPA 300.0 Rev 2.1 1993	608453		
92528787017	GWC-14Z	EPA 300.0 Rev 2.1 1993	608453		
92528787018	GWC-15R	EPA 300.0 Rev 2.1 1993	608453		
92528787019	GWC-15Z	EPA 300.0 Rev 2.1 1993	608453		
92528787020	DUP-2	EPA 300.0 Rev 2.1 1993	608453		
92528787021	FB-3	EPA 300.0 Rev 2.1 1993	608453		
92528787022	GWA-2	EPA 300.0 Rev 2.1 1993	608453		
92528787023	GWC-5	EPA 300.0 Rev 2.1 1993	608453		
92528787024	GWC-6	EPA 300.0 Rev 2.1 1993	608453		
92528787025	GWC-6RZ	EPA 300.0 Rev 2.1 1993	608453		
92528787026	GWC-7Z	EPA 300.0 Rev 2.1 1993	608453		
92528787027	GWC-8RR	EPA 300.0 Rev 2.1 1993	608453		
92528787028	GWA-50	EPA 300.0 Rev 2.1 1993	608453		
92528787029	GWA-50R	EPA 300.0 Rev 2.1 1993	608857		
92528787030	FB-2	EPA 300.0 Rev 2.1 1993	608857		
92528787031	FB-5	EPA 300.0 Rev 2.1 1993	611237		
92528787032	GWA-3A	EPA 300.0 Rev 2.1 1993	611237		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta



Client Name:

GA Power

Project #:

WO# : 92528787



Cooler: Commercial Fed Ex UPS Other Face

Custody Seal Present? Yes No Seal Intact? Yes No

Date/Initials Person Examining Containers: 5/1/21 KRL

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: N/A Yes No
 ID: THK230 Type of Ice: Ice Dry None

Yes N/A

Cooler Temp: 1.4 / 1.9 Correction Factor: +0

Temp should be above freezing to 0°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.4 / 1.9

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

Chain of Custody Project?	Yes	No	N/A	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Short Hold Time Analysis (<32 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Batch Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
-Face Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Sample Labels Match CDC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
-Includes Date/Time/ID/Analysis Matrix			<u>W</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Trip Blank Custody Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of NIST containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All entered data must be completed accurately.

Page: 1 of 1

Section A: Federal Chain Submission

Agency: Central Power
 Project: 1401 Investigation
 Location: 1401 Investigation
 Date: 01/04/2015

Section B: Analytical Project Information

Project Name: Project 1401
 Project ID: 1401

Section C: Sample Information

Sample ID: 1401
 Date Collected: 01/04/2015

SAMPLE ID	DATE	TIME	LOCATION	COLLECTOR	ANALYST	MATRIX CODE	SAMPLE TYPE	ANALYSIS TEST		REMARKS
								GC	MS	
17	01/04/2015	16:25								
18										
19										
20										
21										
22										
23										
24										
25										

Section D: Laboratory Information

Lab Name: Central Power
 Lab Address: 1401 Investigation
 Lab Phone: 1401

Section E: Signatures

Collector: [Signature]
 Analyst: [Signature]

Section F: Date and Time

Date: 01/04/2015
 Time: 16:25



CHAIN-OF-CUSTODY / Analytical Request Document
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Section A: General Case Information
 Agency: Orange County
 Case No: 190100001
 Date: 03/18/21
 Location: Orange, CA 92668

Section B: Analytical Request Information
 Request No: 190100001
 Request Date: 03/18/21
 Request Time: 10:00 AM
 Request Location: Orange, CA 92668

Section C: Sample Information
 Sample No: 190100001
 Sample Name: Orange, CA 92668
 Sample Type: Other
 Sample Weight: 1.00g
 Sample Volume: 1.00ml
 Sample Temperature: Room

Section D: Analytical Information
 Analytical Method: GC/MS
 Analytical Instrument: Agilent 7890B
 Analytical Laboratory: Orange County Sheriff-Coroner's Office
 Analytical Date: 03/18/21
 Analytical Time: 10:00 AM

SAMPLE ID	DATE	TIME	LOCATION	ANALYST	METHOD	ANALYSIS TEST		REMARKS
						GC/MS	GC/MS	
190100001	03/18/21	10:00	Orange, CA 92668	William Leiber	GC/MS	X	X	Orange, CA 92668
190100002								
190100003								
190100004								
190100005								
190100006								
190100007								
190100008								
190100009								
190100010								
190100011								
190100012								
190100013								
190100014								
190100015								
190100016								
190100017								
190100018								
190100019								
190100020								
190100021								
190100022								
190100023								
190100024								
190100025								

Section E: Signature and Date
 Requested by: William Leiber
 Date Requested: 03/18/21

Section F: Laboratory Information
 Laboratory Name: Orange County Sheriff-Coroner's Office
 Laboratory Address: Orange, CA 92668
 Laboratory Phone: 714/940-1234
 Laboratory Fax: 714/940-1234
 Laboratory Email: ocsc@ocsc.net

Section G: Receipt and Tracking
 Received on: 03/18/21
 Received by: William Leiber
 Received at: Orange, CA 92668
 Received from: Orange County Sheriff-Coroner's Office
 Received for: Orange, CA 92668
 Received by (Signature): William Leiber
 Received by (Title): Analyst
 Received by (Phone): 714/940-1234
 Received by (Email): leiber@ocsc.net



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

Client Name: Parsippany	Requester Name: [Blank]	Requester Title: [Blank]	Requester Address: [Blank]	Requester Phone: [Blank]	Requester Email: [Blank]
Client Address: [Blank]	Client City: Parsippany, NJ	Client State: NJ	Client Zip: [Blank]	Client Phone: [Blank]	Client Email: [Blank]
Client Contact: [Blank]	Client Contact Title: [Blank]	Client Contact Phone: [Blank]	Client Contact Email: [Blank]	Client Contact Address: [Blank]	Client Contact City: [Blank]
Client Contact State: [Blank]	Client Contact Zip: [Blank]	Client Contact Phone: [Blank]	Client Contact Email: [Blank]	Client Contact Address: [Blank]	Client Contact City: [Blank]

SAMPLE ID One Character per box, Max. 1001. Samples are stored by unique ID.	Sample ID: [Blank]
	Sample ID: [Blank]

SAMPLE ID	DATE	TIME	COLLECTOR	ANALYST	ANALYSIS	RESULTS	REMARKS
0001	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0002	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0003	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0004	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0005	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0006	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0007	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0008	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0009	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
0010	11/15/21	15:11	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

ANALYST SIGNATURE: [Blank] DATE: [Blank]	ANALYST NAME: [Blank]
ANALYST SIGNATURE: [Blank] DATE: [Blank]	ANALYST NAME: [Blank]
ANALYST SIGNATURE: [Blank] DATE: [Blank]	ANALYST NAME: [Blank]
ANALYST SIGNATURE: [Blank] DATE: [Blank]	ANALYST NAME: [Blank]
ANALYST SIGNATURE: [Blank] DATE: [Blank]	ANALYST NAME: [Blank]



CHAIN-OF-CUSTODY / Analytical Request Document
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Section I: Requester Information Agency: <u>Orange County</u> Requester Name: <u>Orange County Sheriff's Office</u> Requester Title: <u>Crime Lab</u> Requester Address: <u>1000 N. Tustin Ave., Orange, CA 92668</u>		Section II: Analytical Request Information Request No.: <u>10000000000000000000</u> Date of Request: <u>03/19/21</u> Requester Contact: <u>1000 N. Tustin Ave., Orange, CA 92668</u>		Section III: Sample Information Sample ID: <u>10000000000000000000</u> Sample Description: <u>1000 N. Tustin Ave.</u> Date of Collection: <u>03/19/21</u> Location of Collection: <u>1000 N. Tustin Ave.</u>	
--	--	--	--	---	--

Sample ID	Description	Quantity	Unit	Collection Date		Collector	Analyst	Analysis Test	Status	Remarks
				MM/DD/YYYY	MM/DD/YYYY					
10000000000000000000	1000 N. Tustin Ave.	1	WT	03/19/21	03/19/21	1000	1000	1000	1000	PH: 7.05
10000000000000000000	1000 N. Tustin Ave.	1	WT	03/19/21	03/19/21	1000	1000	1000	1000	PH: 7.04
10000000000000000000	1000 N. Tustin Ave.	1	WT	03/19/21	03/19/21	1000	1000	1000	1000	PH: 6.31
10000000000000000000	1000 N. Tustin Ave.	1	WT	03/19/21	03/19/21	1000	1000	1000	1000	PH: 7.42

Section IV: Laboratory Information Laboratory Name: <u>Orange County Sheriff's Office Crime Lab</u> Laboratory Address: <u>1000 N. Tustin Ave., Orange, CA 92668</u> Laboratory Contact: <u>1000 N. Tustin Ave.</u>		Section V: Signatures Requester Signature: <u>[Signature]</u> Date: <u>03/19/21</u> Analyst Signature: <u>[Signature]</u> Date: <u>03/19/21</u>	
---	--	--	--



CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 3

Section 1: Requester Information

Requester Name: City of Parsippany
 Requester Title: City Manager
 Requester Address: 1000 Parsippany Blvd, Parsippany, NJ 07054
 Requester Phone: 973-261-1100
 Requester Email: citymanager@parsippanynj.gov

Section 2: Sample Information

Sample ID: 1000-1000-1000
 Sample Description: Water from Lake
 Sample Location: 1000-1000-1000
 Sample Date: 10/10/2010
 Sample Time: 10:00 AM

Section 3: Analytical Request

Requested Analysis: Water Quality
 Requested Method: Standard Methods
 Requested Laboratory: City of Parsippany

Date	Time	Location	Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Collection		Requested Analysis	Requested Method	Requested Laboratory	Requester Name	Requester Title	Requester Address	Requester Phone	Requester Email
								Start	End								
10/10/2010	10:00 AM	1000-1000-1000	1000-1000-1000	Water from Lake	1000-1000-1000	10/10/2010	10:00 AM			Water Quality	Standard Methods	City of Parsippany	City Manager	1000 Parsippany Blvd	973-261-1100	citymanager@parsippanynj.gov	
10/10/2010	10:00 AM	1000-1000-1000	1000-1000-1000	Water from Lake	1000-1000-1000	10/10/2010	10:00 AM			Water Quality	Standard Methods	City of Parsippany	City Manager	1000 Parsippany Blvd	973-261-1100	citymanager@parsippanynj.gov	
10/10/2010	10:00 AM	1000-1000-1000	1000-1000-1000	Water from Lake	1000-1000-1000	10/10/2010	10:00 AM			Water Quality	Standard Methods	City of Parsippany	City Manager	1000 Parsippany Blvd	973-261-1100	citymanager@parsippanynj.gov	
10/10/2010	10:00 AM	1000-1000-1000	1000-1000-1000	Water from Lake	1000-1000-1000	10/10/2010	10:00 AM			Water Quality	Standard Methods	City of Parsippany	City Manager	1000 Parsippany Blvd	973-261-1100	citymanager@parsippanynj.gov	
10/10/2010	10:00 AM	1000-1000-1000	1000-1000-1000	Water from Lake	1000-1000-1000	10/10/2010	10:00 AM			Water Quality	Standard Methods	City of Parsippany	City Manager	1000 Parsippany Blvd	973-261-1100	citymanager@parsippanynj.gov	

Requester Signature and Date

Requester Name: William Lambert, City Clerk
 Requester Title: City Clerk
 Requester Address: 1000 Parsippany Blvd, Parsippany, NJ 07054
 Requester Phone: 973-261-1100
 Requester Email: william.lambert@parsippanynj.gov

Requester Signature: William Lambert **Date:** 10/10/2010



CHAIN-OF-CUSTODY / Analytical Request Document
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Page: 1 of 1

Section 1: Client Information
 Client Name: [Blank]
 Client Address: [Blank]
 Client City/State/Zip: [Blank]

Section 2: Analytical Request Information
 Request for: [Blank]
 Request No.: [Blank]

Section 3: Sample Information
 Sample ID: [Blank]
 Sample Description: [Blank]
 Sample Type: [Blank]

Section 4: Collection Information
 Date: [Blank] Time: [Blank]
 Location: [Blank]

Section 5: Preservation
 Refrigerated: Frozen: Dried: Other:

Section 6: Analysis Test
 Test Name: [Blank]
 Test Method: [Blank]

Section 7: Laboratory Information
 Laboratory Name: [Blank]
 Laboratory Address: [Blank]
 Laboratory City/State/Zip: [Blank]

SAMPLE ID	SAMPLE TYPE	COLLECTOR		DATE	TIME	WEIGHT (g)	VOLUME (mL)	ANALYSIS TEST	RESULTS
		INITIALS	NAME						
001	COCAINE								
002	COCAINE								
003	COCAINE								
004	COCAINE								
005	COCAINE								
006	COCAINE								
007	COCAINE								
008	COCAINE								
009	COCAINE								
010	COCAINE								
011	COCAINE								
012	COCAINE								
013	COCAINE								
014	COCAINE								
015	COCAINE								
016	COCAINE								
017	COCAINE								
018	COCAINE								
019	COCAINE								
020	COCAINE								
021	COCAINE								
022	COCAINE								
023	COCAINE								
024	COCAINE								
025	COCAINE								
026	COCAINE								
027	COCAINE								
028	COCAINE								
029	COCAINE								
030	COCAINE								
031	COCAINE								
032	COCAINE								
033	COCAINE								
034	COCAINE								
035	COCAINE								
036	COCAINE								
037	COCAINE								
038	COCAINE								
039	COCAINE								
040	COCAINE								
041	COCAINE								
042	COCAINE								
043	COCAINE								
044	COCAINE								
045	COCAINE								
046	COCAINE								
047	COCAINE								
048	COCAINE								
049	COCAINE								
050	COCAINE								
051	COCAINE								
052	COCAINE								
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068	COCAINE								
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070	COCAINE								
071	COCAINE								
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080	COCAINE								
081	COCAINE								
082	COCAINE								
083	COCAINE								
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094	COCAINE								
095	COCAINE								
096	COCAINE								
097	COCAINE								
098	COCAINE								
099	COCAINE								
100	COCAINE								

LABORATORY USE ONLY

Client Name: [Blank]
 Client Address: [Blank]
 Client City/State/Zip: [Blank]

Request for: [Blank]
 Request No.: [Blank]

Sample ID: [Blank]
 Sample Description: [Blank]
 Sample Type: [Blank]

Date: [Blank] Time: [Blank]
 Location: [Blank]

Weight (g): [Blank] Volume (mL): [Blank]

Analysis Test: [Blank]

Results: [Blank]

Prepared By: [Blank] Date: [Blank]

Checked By: [Blank] Date: [Blank]

Received By: [Blank] Date: [Blank]



CHAIN OF CUSTODY / Analytical Request Document
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Page 1 of 1

Section 1 Requester Information		Section 2 Sample Request Information		Section 3 Sample Information	
Requester Name	Requester Title	Client Name	Client Address	Client City	Client State
Requester Phone	Requester Email	Sample Name	Sample ID	Sample Weight	Sample Volume
Requester Fax	Requester Signature	Sample Type	Sample Date	Sample Time	Sample Location
Requester Address	Requester City	Sample Description	Sample Matrix	Sample Container	Sample Preservation
Requester State	Requester Zip	Sample Analysis	Sample Storage	Sample Shipping	Sample Receipt

Sample ID	Sample Description	Sample Matrix	Sample Container	Sample Weight	Sample Volume	Sample Date	Sample Time	Sample Location	Sample Preservation	Sample Shipping	Sample Receipt	Section 4 Requester Information		Section 5 Sample Information	
												Requester Name	Requester Title	Requester Phone	Requester Email
1	Sample 1	Matrix Code	Container Code	Weight	Volume	Date	Time	Location	Preservation	Shipping	Receipt	Requester Name	Requester Title	Requester Phone	Requester Email
2	Sample 2														
3	Sample 3														
4	Sample 4														
5	Sample 5														
6	Sample 6														
7	Sample 7														
8	Sample 8														
9	Sample 9														
10	Sample 10														
11	Sample 11														
12	Sample 12														
13	Sample 13														
14	Sample 14														

Handwritten signature and notes in the Sample Description column.

Requester Name	Requester Title	Requester Phone	Requester Email
Requester Address	Requester City	Requester State	Requester Zip
Requester Fax	Requester Signature	Requester Date	Requester Time



CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section 1: General Information Agency: <u>Georgia Dept of Transportation</u> Project: <u>2001 Interchange Project</u> Location: <u>Atlanta, GA 30338</u>		Section 2: Analytical Request Information Request to: <u>State Forensics</u> Date: <u>5/18/21</u>		Section 3: Requester Information Requester: <u>[Redacted]</u> Title: <u>[Redacted]</u>	
Section 4: Sample Information Sample ID: <u>F8-3</u> Description: <u>100% Virgin Polypropylene</u> Quantity: <u>100g</u>		Section 5: Collection Information Collector: <u>[Redacted]</u> Date: <u>5/18/21</u> Time: <u>15:28</u>		Section 6: Preservation Information Method: <u>Impounded</u> Location: <u>1000</u> Other: <u>[Redacted]</u>	

ITEM #	Description	Quantity	Date	Time	Collection			Preservation							Analysis Test			Residual Quantity (Yield)
					DATE	TIME	TIME	Impounded	1000	10	100	Method	Other	Y/N	Yield	Yield		
01	100% Virgin Polypropylene	100g	5/18/21	15:28														
02	100% Virgin Polypropylene	100g	5/18/21	15:28														
03	100% Virgin Polypropylene	100g	5/18/21	15:28														
04	100% Virgin Polypropylene	100g	5/18/21	15:28														
05	100% Virgin Polypropylene	100g	5/18/21	15:28														

Handwritten: 5-18-21 15:28 100% Virgin Polypropylene 100g

Signature of Collector: <u>[Signature]</u>	Signature of Analyst: <u>[Signature]</u>
Date: 5/18/21	Date: 5/18/21



CHAIN-OF-CUSTODY / Analytical Request Document
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Page: 1 of 1

Project Name	Project Location	Project Number	Project Date
Client Name	Client Address	Client Phone	Client Email
Analyst Name	Analyst Address	Analyst Phone	Analyst Email
Sample ID	Sample Description	Sample Location	Sample Date
Sample Type	Sample Quantity	Sample Condition	Sample Storage
Sample Source	Sample Container	Sample Label	Sample Chain

SAMPLE ID	SAMPLE TYPE	COLLECTOR		DATE	TIME	LOCATION	ANALYSIS TEST	RESULTS
		START	END					
1	Soil						PH, MO, CO, NI	PH: 6.58
2	Soil						PH, MO, CO, NI	PH: 5.85
3	Soil						PH, MO, CO, NI	PH: 7.57
4	Soil						PH, MO, CO, NI	PH: 7.05
5	Soil						PH, MO, CO, NI	PH: 7.52
6	Soil						PH, MO, CO, NI	PH: 8.08

DATE	TIME	LOCATION	INITIALS	DESCRIPTION
3/17/21	10:00	Site 1	[Signature]	Sample Collection
3/17/21	14:00	Site 2	[Signature]	Sample Collection
3/17/21	16:00	Site 3	[Signature]	Sample Collection
3/17/21	18:00	Site 4	[Signature]	Sample Collection
3/17/21	20:00	Site 5	[Signature]	Sample Collection
3/17/21	22:00	Site 6	[Signature]	Sample Collection

Project Name of Laboratory	Project Name of Sample Lab	Project Name of Sample Lab
Will Lueder, Inc. 2400 Kona Street	Will Lueder, Inc. 2400 Kona Street	Will Lueder, Inc. 2400 Kona Street
3/17/21	3/17/21	3/17/21
TEMP in C	TEMP in F	TEMP in C
20	68	20



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

Section A Request Information
 Requester: George King
 Requester Title: SOI (Supervisor) / Training
 Requester Phone: (703) 441-8713
 Requester Email: gking@fla.gov

Section B Analytical Request Information
 Requester: George King
 Requester Title: SOI (Supervisor) / Training
 Requester Phone: (703) 441-8713
 Requester Email: gking@fla.gov

Section C Sample Information
 Sample ID: 1000
 Sample Description: 1000
 Sample Location: 1000
 Sample Date: 10/1/20

SAMPLE ID	SAMPLE TYPE	COLLECTOR			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATION							ANALYSIS TEST			REMARKS / ANALYST INITIALS		
		START	TIME	DATE			UNPRESERVED	10004	10005	10	1000	10000	10000	10000	10000	10000		10000	
1000	1000																		
1001	1001																		
1002	1002																		
1003	1003																		
1004	1004																		
1005	1005																		
1006	1006																		
1007	1007																		
1008	1008																		
1009	1009																		
1010	1010																		
1011	1011																		
1012	1012																		
1013	1013																		
1014	1014																		
1015	1015																		
1016	1016																		
1017	1017																		
1018	1018																		
1019	1019																		
1020	1020																		
1021	1021																		
1022	1022																		
1023	1023																		
1024	1024																		
1025	1025																		
1026	1026																		
1027	1027																		
1028	1028																		
1029	1029																		
1030	1030																		
1031	1031																		
1032	1032																		
1033	1033																		
1034	1034																		
1035	1035																		
1036	1036																		
1037	1037																		
1038	1038																		
1039	1039																		
1040	1040																		
1041	1041																		
1042	1042																		
1043	1043																		
1044	1044																		
1045	1045																		
1046	1046																		
1047	1047																		
1048	1048																		
1049	1049																		
1050	1050																		

Section D Additional Comments
 Comments: [Handwritten notes]

Section E Signatures
 Requester: [Signature]
 Analyst: [Signature]

Section F Laboratory Information
 Laboratory Name: [Name]
 Address: [Address]
 Phone: [Phone]
 Fax: [Fax]
 Email: [Email]

Section G Date and Time
 Date: 10/1/20
 Time: 10:00 AM



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A: Client Information
 Client Name: [Blank]
 Client Address: [Blank]
 Client City/State/Zip: [Blank]

Section B: Analytical Request Information
 Requested By: [Blank]
 Requested For: [Blank]
 Requested On: [Blank]

Section C: Sample Information
 Sample ID: [Blank]
 Sample Description: [Blank]

Section D: Laboratory Information
 Laboratory Name: [Blank]
 Laboratory Address: [Blank]
 Laboratory City/State/Zip: [Blank]

SAMPLE ID	DESCRIPTION	DATE RECEIVED	RECEIVED BY	ANALYSIS		DATE ANALYZED	ANALYZED BY	LABORATORY
				TEST	RESULT			
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Section E: Signatures and Dates

Client Signature: [Blank] Date: [Blank]

Requester Signature: [Blank] Date: [Blank]

Analyst Signature: [Blank] Date: [Blank]

Laboratory Manager Signature: [Blank] Date: [Blank]

Section F: Laboratory Details

Method: [Blank]

Instrument: [Blank]

Operator: [Blank]

Received at: [Blank] Date: [Blank]

Received by: [Blank] Date: [Blank]

Received by: [Blank] Date: [Blank]

Received by: [Blank] Date: [Blank]

Received by: [Blank] Date: [Blank]

Received by: [Blank] Date: [Blank]

Project: *[Handwritten Signature]*

DATA OF PROJECT: **Statistical Process Control**
The Department of Statistical Quality Control at the University of...

Project Title: *[Handwritten Title]*

Date: *[Handwritten Date]*

Customer Name: _____

Project No: _____

Start Date: _____

End Date: _____

Product Name: _____

Process Name: _____

Plant Name: _____

Operator Name: _____

SAMPLE NO	DATE	TIME	OPERATOR	SAMPLE WEIGHTS (g)		SAMPLE VOLUME (ml)	TEMPERATURE (°C)	PH	SPECIFIC GRAVITY	REFRACTIVE INDEX	DENSITY	VISCOSITY (cP)	CONDUCTIVITY (µS/cm)
				W1	W2								
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
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24													
25													
26													
27													
28													
29													
30													

SAMPLE NO	DATE	TIME	OPERATOR	SAMPLE WEIGHTS (g)	SAMPLE VOLUME (ml)	TEMPERATURE (°C)	PH	SPECIFIC GRAVITY	REFRACTIVE INDEX	DENSITY	VISCOSITY (cP)	CONDUCTIVITY (µS/cm)	COMMENTS
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													

Project Description: *[Handwritten Description]*

Operator: *[Handwritten Name]*

Plant: *[Handwritten Name]*

Product: *[Handwritten Name]*

Process: *[Handwritten Name]*

Start Date: *[Handwritten Date]*

End Date: *[Handwritten Date]*

Operator Name: *[Handwritten Name]*

Plant Name: *[Handwritten Name]*

Product Name: *[Handwritten Name]*

Process Name: *[Handwritten Name]*

Form No: _____

Revision No: _____

Scale: _____

Unit: _____

Material: _____

Quantity: _____

Weight: _____

Volume: _____

Temperature: _____

PH: _____

Specific Gravity: _____

Refractive Index: _____

Density: _____

Viscosity (cP): _____

Conductivity (µS/cm): _____

Comments: _____



April 06, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN LF CELLS 3&4
Pace Project No.: 92524632

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 26, 2021 and March 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

This report was revised 4/5/21 to correct the IC data for sample DUP-3.

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN LF CELLS 3&4
Pace Project No.: 92524632

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524632001	DUP-1	Water	02/24/21 00:00	02/26/21 16:08
92524632002	FB-1	Water	02/24/21 16:40	02/26/21 16:08
92524632003	GWA-36	Water	02/24/21 14:06	02/26/21 16:08
92524632004	GWA-37	Water	02/24/21 12:56	02/26/21 16:08
92524632005	GWA-38	Water	02/24/21 11:02	02/26/21 16:08
92524632006	GWA-52	Water	02/24/21 16:10	02/26/21 16:08
92524632007	FB-2	Water	02/25/21 16:52	02/26/21 16:08
92524632008	GWA-51RZ	Water	02/25/21 11:20	02/26/21 16:08
92524632009	GWA-54	Water	02/25/21 13:38	02/26/21 16:08
92524632010	GWA-55	Water	02/25/21 14:54	02/26/21 16:08
92524632011	GWA-55R	Water	02/25/21 16:21	02/26/21 16:08
92524632012	GWA-56	Water	02/25/21 15:22	02/26/21 16:08
92524632013	DUP-2	Water	02/26/21 00:00	02/26/21 16:08
92524632014	FB-3	Water	02/26/21 13:28	02/26/21 16:08
92524632015	EB-1	Water	02/26/21 13:34	02/26/21 16:08
92524632016	GWA-53	Water	02/26/21 12:40	02/26/21 16:08
92524632017	GWA-53R	Water	02/26/21 11:06	02/26/21 16:08
92524632018	GWC-18	Water	02/26/21 11:20	02/26/21 16:08
92524632019	GWC-18R	Water	02/26/21 12:28	02/26/21 16:08
92524632020	GWC-19R	Water	02/26/21 13:32	02/26/21 16:08
92524632021	DUP-3	Water	03/09/21 00:00	03/10/21 08:56
92524632022	FB-4	Water	03/09/21 16:39	03/10/21 08:56
92524632023	GWC-16R	Water	03/09/21 09:53	03/10/21 08:56
92524632024	GWC-20R	Water	03/09/21 14:21	03/10/21 08:56
92524632025	GWC-21R	Water	03/09/21 15:56	03/10/21 08:56
92524632026	GWC-22R	Water	03/09/21 16:25	03/10/21 08:56
92524632027	GWC-24R	Water	03/09/21 14:01	03/10/21 08:56
92524632028	GWC-25R	Water	03/09/21 11:48	03/10/21 08:56
92524632029	FB-5	Water	03/10/21 16:37	03/12/21 15:35
92524632030	GWC-23R	Water	03/10/21 10:40	03/12/21 15:35
92524632031	GWC-17R	Water	03/10/21 10:02	03/12/21 15:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524632001	DUP-1	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632002	FB-1	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632003	GWA-36	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632004	GWA-37	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632005	GWA-38	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632006	GWA-52	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632007	FB-2	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632008	GWA-51RZ	EPA 6010D	DRB	2
		EPA 6020B	CW1	15

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524632009	GWA-54	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92524632010	GWA-55	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632011	GWA-55R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632012	GWA-56	EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
92524632013	DUP-2	EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
92524632014	FB-3	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92524632015	EB-1	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524632016	GWA-53	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632017	GWA-53R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632018	GWC-18	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632019	GWC-18R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632020	GWC-19R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524632021	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92524632022	FB-4	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92524632023	GWC-16R	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524632024	GWC-20R	EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
92524632025	GWC-21R	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92524632026	GWC-22R	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92524632027	GWC-24R	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524632028	GWC-25R	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
92524632029	FB-5	EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
92524632030	GWC-23R	EPA 7470A	VB	1
		EPA 6010D	KH	2
		EPA 6020B	CW1	15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524632031	GWC-17R	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632001	DUP-1					
EPA 6010D	Zinc	0.44	mg/L	0.020	03/03/21 14:41	
EPA 6010D	Calcium	13.4	mg/L	1.0	03/03/21 14:41	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/04/21 19:33	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	03/04/21 19:33	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/04/21 19:33	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	03/04/21 19:33	
EPA 6020B	Lead	0.000058J	mg/L	0.0010	03/04/21 19:33	
SM 2450C-2011	Total Dissolved Solids	76.0	mg/L	10.0	03/01/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	03/05/21 11:07	
EPA 300.0 Rev 2.1 1993	Sulfate	0.52J	mg/L	1.0	03/05/21 11:07	
92524632002	FB-1					
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	03/04/21 19:56	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/04/21 19:56	
92524632003	GWA-36					
	Performed by	CUSTOME			03/02/21 09:20	
		R				
	pH	6.69	Std. Units		03/02/21 09:20	
EPA 6010D	Zinc	0.44	mg/L	0.020	03/03/21 14:51	
EPA 6010D	Calcium	13.6	mg/L	1.0	03/03/21 14:51	
EPA 6020B	Antimony	0.00068J	mg/L	0.0030	03/04/21 20:02	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/04/21 20:02	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	03/04/21 20:02	
EPA 6020B	Boron	0.0062J	mg/L	0.040	03/04/21 20:02	
EPA 6020B	Cadmium	0.0012	mg/L	0.00050	03/04/21 20:02	
EPA 6020B	Lead	0.000062J	mg/L	0.0010	03/04/21 20:02	
SM 2450C-2011	Total Dissolved Solids	60.0	mg/L	10.0	03/01/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	03/05/21 11:39	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	03/05/21 11:39	
92524632004	GWA-37					
	Performed by	CUSTOME			03/02/21 09:20	
		R				
	pH	5.49	Std. Units		03/02/21 09:20	
EPA 6010D	Zinc	0.0038J	mg/L	0.020	03/03/21 14:56	
EPA 6010D	Calcium	0.71J	mg/L	1.0	03/03/21 14:56	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	03/04/21 20:07	
EPA 6020B	Barium	0.0044J	mg/L	0.0050	03/04/21 20:07	
EPA 6020B	Copper	0.0083	mg/L	0.0050	03/04/21 20:07	
EPA 6020B	Nickel	0.010	mg/L	0.0050	03/04/21 20:07	
EPA 7470A	Mercury	0.000091J	mg/L	0.00020	03/04/21 14:06	
SM 2450C-2011	Total Dissolved Solids	10.0	mg/L	10.0	03/01/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	0.84J	mg/L	1.0	03/05/21 11:55	
92524632005	GWA-38					
	Performed by	CUSTOME			03/02/21 09:20	
		R				
	pH	5.23	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/03/21 15:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632005	GWA-38					
EPA 6020B	Barium	0.013	mg/L	0.0050	03/04/21 20:13	
EPA 6020B	Chromium	0.0018J	mg/L	0.0050	03/04/21 20:13	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/04/21 20:13	
EPA 6020B	Nickel	0.00091J	mg/L	0.0050	03/04/21 20:13	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	03/04/21 14:08	
SM 2450C-2011	Total Dissolved Solids	12.0	mg/L	10.0	03/01/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	03/05/21 12:43	
EPA 300.0 Rev 2.1 1993	Sulfate	0.72J	mg/L	1.0	03/05/21 12:43	
92524632006	GWA-52					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.53	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	37.1	mg/L	1.0	03/03/21 15:35	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/04/21 20:30	
EPA 6020B	Boron	0.0099J	mg/L	0.040	03/04/21 20:30	
EPA 6020B	Chromium	0.00097J	mg/L	0.0050	03/04/21 20:30	
SM 2450C-2011	Total Dissolved Solids	144	mg/L	10.0	03/01/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/05/21 12:59	
EPA 300.0 Rev 2.1 1993	Sulfate	29.2	mg/L	1.0	03/05/21 12:59	
92524632008	GWA-51RZ					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.43	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	49.8	mg/L	1.0	03/03/21 15:45	
EPA 6020B	Antimony	0.00061J	mg/L	0.0030	03/04/21 20:42	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/04/21 20:42	
EPA 6020B	Boron	0.0052J	mg/L	0.040	03/04/21 20:42	
EPA 6020B	Selenium	0.0099	mg/L	0.0050	03/04/21 20:42	
SM 2450C-2011	Total Dissolved Solids	217	mg/L	10.0	03/01/21 14:56	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/05/21 13:31	
EPA 300.0 Rev 2.1 1993	Sulfate	29.5	mg/L	1.0	03/05/21 13:31	
92524632009	GWA-54					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.55	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	25.3	mg/L	1.0	03/03/21 15:51	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/04/21 20:47	
EPA 6020B	Chromium	0.0017J	mg/L	0.0050	03/04/21 20:47	
SM 2450C-2011	Total Dissolved Solids	124	mg/L	10.0	03/01/21 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	0.78J	mg/L	1.0	03/05/21 13:47	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/05/21 13:47	M1
92524632010	GWA-55					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.05	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	48.5	mg/L	1.0	03/03/21 15:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632010	GWA-55					
EPA 6020B	Barium	0.028	mg/L	0.0050	03/04/21 20:53	
EPA 6020B	Boron	0.0075J	mg/L	0.040	03/04/21 20:53	
EPA 6020B	Chromium	0.00078J	mg/L	0.0050	03/04/21 20:53	
EPA 6020B	Cobalt	0.0039J	mg/L	0.0050	03/04/21 20:53	
EPA 6020B	Lead	0.000090J	mg/L	0.0010	03/04/21 20:53	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	03/04/21 20:53	
SM 2450C-2011	Total Dissolved Solids	217	mg/L	10.0	03/01/21 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	03/05/21 14:35	
EPA 300.0 Rev 2.1 1993	Sulfate	34.5	mg/L	1.0	03/05/21 14:35	
92524632011	GWA-55R					
	Performed by	CUSTOME			03/02/21 09:20	
		R				
	pH	7.27	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	44.8	mg/L	1.0	03/03/21 16:00	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/04/21 20:59	
EPA 6020B	Boron	0.0055J	mg/L	0.040	03/04/21 20:59	
EPA 6020B	Chromium	0.00083J	mg/L	0.0050	03/04/21 20:59	
EPA 6020B	Lead	0.000038J	mg/L	0.0010	03/04/21 20:59	
SM 2450C-2011	Total Dissolved Solids	194	mg/L	10.0	03/02/21 15:40	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	03/05/21 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	23.2	mg/L	1.0	03/05/21 15:14	
92524632012	GWA-56					
	Performed by	CUSTOME			03/02/21 09:20	
		R				
	pH	7.85	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	36.0	mg/L	1.0	03/03/21 16:05	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/04/21 21:05	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/04/21 21:05	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/04/21 21:05	
EPA 6020B	Lead	0.000045J	mg/L	0.0010	03/04/21 21:05	
SM 2450C-2011	Total Dissolved Solids	284	mg/L	10.0	03/02/21 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	03/06/21 08:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	03/06/21 08:30	
EPA 300.0 Rev 2.1 1993	Sulfate	62.6	mg/L	1.0	03/06/21 08:30	
92524632013	DUP-2					
EPA 6010D	Calcium	29.8	mg/L	1.0	03/03/21 16:10	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/04/21 21:10	
EPA 6020B	Beryllium	0.000047J	mg/L	0.00050	03/04/21 21:10	
EPA 6020B	Chromium	0.00075J	mg/L	0.0050	03/04/21 21:10	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/04/21 21:10	
SM 2450C-2011	Total Dissolved Solids	115	mg/L	10.0	03/02/21 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/06/21 08:46	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/06/21 08:46	
92524632016	GWA-53					
	Performed by	CUSTOME			03/02/21 09:20	
		R				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632016	GWA-53					
	pH	7.70	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	29.6	mg/L	1.0	03/03/21 16:39	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/04/21 21:39	
EPA 6020B	Beryllium	0.000051J	mg/L	0.00050	03/04/21 21:39	
EPA 6020B	Chromium	0.00080J	mg/L	0.0050	03/04/21 21:39	
EPA 6020B	Lead	0.00012J	mg/L	0.0010	03/04/21 21:39	
SM 2450C-2011	Total Dissolved Solids	128	mg/L	10.0	03/02/21 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/06/21 09:34	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/06/21 09:34	
92524632017	GWA-53R					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.72	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	31.1	mg/L	1.0	03/03/21 16:44	
EPA 6020B	Antimony	0.00060J	mg/L	0.0030	03/04/21 21:45	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/04/21 21:45	
EPA 6020B	Chromium	0.00071J	mg/L	0.0050	03/04/21 21:45	
EPA 6020B	Lead	0.000064J	mg/L	0.0010	03/04/21 21:45	
SM 2450C-2011	Total Dissolved Solids	98.0	mg/L	10.0	03/02/21 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/06/21 09:50	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/06/21 09:50	
92524632018	GWC-18					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.07	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	25.2	mg/L	1.0	03/03/21 16:49	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/04/21 21:50	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	03/04/21 21:50	
EPA 6020B	Lead	0.000094J	mg/L	0.0010	03/04/21 21:50	
SM 2450C-2011	Total Dissolved Solids	90.0	mg/L	10.0	03/02/21 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/06/21 10:06	
EPA 300.0 Rev 2.1 1993	Sulfate	2.1	mg/L	1.0	03/06/21 10:06	
92524632019	GWC-18R					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.81	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	31.9	mg/L	1.0	03/03/21 16:53	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	03/04/21 21:56	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/04/21 21:56	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/04/21 21:56	
EPA 6020B	Chromium	0.00069J	mg/L	0.0050	03/04/21 21:56	
EPA 6020B	Lead	0.00025J	mg/L	0.0010	03/04/21 21:56	
SM 2450C-2011	Total Dissolved Solids	121	mg/L	10.0	03/02/21 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/04/21 22:34	
EPA 300.0 Rev 2.1 1993	Sulfate	2.1	mg/L	1.0	03/04/21 22:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632020	GWC-19R					
	Performed by	CUSTOMER			03/02/21 09:20	
	pH	7.73	Std. Units		03/02/21 09:20	
EPA 6010D	Calcium	33.3	mg/L	1.0	03/03/21 16:58	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/04/21 22:02	
EPA 6020B	Chromium	0.00067J	mg/L	0.0050	03/04/21 22:02	
SM 2450C-2011	Total Dissolved Solids	172	mg/L	10.0	03/02/21 15:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/04/21 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	3.4	mg/L	1.0	03/04/21 22:49	
92524632021	DUP-3					
EPA 6010D	Calcium	35.7	mg/L	1.0	03/20/21 00:39	M1
EPA 6020B	Barium	0.028	mg/L	0.0050	03/18/21 19:22	
EPA 6020B	Boron	0.0098J	mg/L	0.040	03/18/21 19:22	
EPA 6020B	Chromium	0.00090J	mg/L	0.0050	03/18/21 19:22	
SM 2450C-2011	Total Dissolved Solids	167	mg/L	10.0	03/13/21 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	04/04/21 18:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	04/04/21 18:00	
92524632022	FB-4					
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	03/18/21 19:45	
EPA 6020B	Boron	0.0089J	mg/L	0.040	03/18/21 19:45	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/17/21 06:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.4	mg/L	1.0	03/17/21 06:00	
92524632023	GWC-16R					
	Performed by	CUSTOMER			03/22/21 11:52	
	pH	7.34	Std. Units		03/22/21 11:52	
EPA 6010D	Zinc	0.025	mg/L	0.020	03/20/21 01:13	
EPA 6010D	Calcium	76.4	mg/L	1.0	03/20/21 01:13	
EPA 6020B	Antimony	0.018	mg/L	0.0030	03/18/21 19:50	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Barium	0.058	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Boron	0.028J	mg/L	0.040	03/18/21 19:50	
EPA 6020B	Chromium	0.0024J	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Cobalt	0.00047J	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Copper	0.0025J	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/18/21 19:50	
EPA 6020B	Nickel	0.0053	mg/L	0.0050	03/18/21 19:50	
EPA 6020B	Vanadium	0.0030J	mg/L	0.010	03/18/21 19:50	
SM 2450C-2011	Total Dissolved Solids	335	mg/L	10.0	03/13/21 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/17/21 06:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	03/17/21 06:45	
EPA 300.0 Rev 2.1 1993	Sulfate	12.9	mg/L	1.0	03/17/21 06:45	
92524632024	GWC-20R					
	Performed by	CUSTOMER			03/22/21 11:52	
	pH	7.81	Std. Units		03/22/21 11:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92524632024	GWC-20R					
EPA 6010D	Calcium	35.8	mg/L	1.0	03/20/21 01:18	
EPA 6020B	Barium	0.027	mg/L	0.0050	03/18/21 19:56	
EPA 6020B	Chromium	0.00094J	mg/L	0.0050	03/18/21 19:56	
SM 2450C-2011	Total Dissolved Solids	163	mg/L	10.0	03/13/21 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	03/17/21 07:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/17/21 07:00	
92524632025	GWC-21R					
	Performed by	CUSTOMER			03/22/21 11:52	
	pH	6.98	Std. Units		03/22/21 11:52	
EPA 6010D	Calcium	64.1	mg/L	1.0	03/20/21 01:23	
EPA 6020B	Antimony	0.0024J	mg/L	0.0030	03/18/21 20:02	
EPA 6020B	Arsenic	0.0045J	mg/L	0.0050	03/18/21 20:02	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/18/21 20:02	
EPA 6020B	Boron	0.015J	mg/L	0.040	03/18/21 20:02	
EPA 6020B	Cobalt	0.00040J	mg/L	0.0050	03/18/21 20:02	
EPA 6020B	Nickel	0.00075J	mg/L	0.0050	03/18/21 20:02	
SM 2450C-2011	Total Dissolved Solids	286	mg/L	10.0	03/13/21 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/17/21 07:15	
EPA 300.0 Rev 2.1 1993	Sulfate	10.5	mg/L	1.0	03/17/21 07:15	
92524632026	GWC-22R					
	Performed by	CUSTOMER			03/22/21 11:52	
	pH	7.35	Std. Units		03/22/21 11:52	
EPA 6010D	Calcium	35.7	mg/L	1.0	03/20/21 01:28	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	03/18/21 20:19	
EPA 6020B	Barium	0.045	mg/L	0.0050	03/18/21 20:19	
EPA 6020B	Boron	0.0058J	mg/L	0.040	03/18/21 20:19	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	03/18/21 20:19	
SM 2450C-2011	Total Dissolved Solids	161	mg/L	10.0	03/13/21 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/17/21 07:30	
EPA 300.0 Rev 2.1 1993	Sulfate	1.4	mg/L	1.0	03/17/21 07:30	
92524632027	GWC-24R					
	Performed by	CUSTOMER			03/22/21 11:52	
	pH	7.80	Std. Units		03/22/21 11:52	
EPA 6010D	Zinc	0.0063J	mg/L	0.020	03/20/21 01:33	
EPA 6010D	Calcium	33.2	mg/L	1.0	03/20/21 01:33	
EPA 6020B	Antimony	0.00035J	mg/L	0.0030	03/18/21 20:25	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/18/21 20:25	
SM 2450C-2011	Total Dissolved Solids	158	mg/L	10.0	03/13/21 16:00	D6
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/17/21 07:45	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/17/21 07:45	
92524632028	GWC-25R					
	Performed by	CUSTOMER			03/22/21 11:52	

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92524632028	GWC-25R					
	pH	8.07	Std. Units		03/22/21 11:52	
EPA 6010D	Calcium	36.4	mg/L	1.0	03/20/21 01:37	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/18/21 20:31	
EPA 6020B	Chromium	0.00079J	mg/L	0.0050	03/18/21 20:31	
SM 2450C-2011	Total Dissolved Solids	153	mg/L	10.0	03/13/21 16:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/17/21 08:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/17/21 08:00	
92524632030	GWC-23R					
	Performed by	CUSTOME			03/22/21 11:52	
		R				
	pH	7.41	Std. Units		03/22/21 11:52	
EPA 6010D	Calcium	62.2	mg/L	1.0	03/20/21 01:47	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/18/21 20:53	
EPA 6020B	Chromium	0.00073J	mg/L	0.0050	03/18/21 20:53	
SM 2450C-2011	Total Dissolved Solids	333	mg/L	10.0	03/16/21 14:42	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/18/21 10:34	
EPA 300.0 Rev 2.1 1993	Sulfate	56.8	mg/L	1.0	03/18/21 10:34	
92524632031	GWC-17R					
	Performed by	CUSTOME			03/22/21 11:52	
		R				
	pH	7.27	Std. Units		03/22/21 11:52	
EPA 6010D	Calcium	67.1	mg/L	1.0	03/20/21 01:52	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/18/21 20:59	
SM 2450C-2011	Total Dissolved Solids	256	mg/L	10.0	03/16/21 14:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	03/18/21 11:29	
EPA 300.0 Rev 2.1 1993	Sulfate	7.3	mg/L	1.0	03/18/21 11:29	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: DUP-1 **Lab ID: 92524632001** Collected: 02/24/21 00:00 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.44	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 14:41	7440-66-6	
Calcium	13.4	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 14:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 19:33	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 19:33	7440-39-3	
Beryllium	0.00021J	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 19:33	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 19:33	7440-42-8	
Cadmium	0.0010	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 19:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 19:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 19:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 19:33	7440-50-8	
Lead	0.000058J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 19:33	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 19:33	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 19:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 19:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 19:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 19:33	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	76.0	mg/L	10.0	10.0	1		03/01/21 14:54		
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		03/05/21 11:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 11:07	16984-48-8	
Sulfate	0.52J	mg/L	1.0	0.50	1		03/05/21 11:07	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: FB-1 **Lab ID: 92524632002** Collected: 02/24/21 16:40 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 14:46	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 14:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0017J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 19:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 19:56	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 19:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 19:56	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 19:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 19:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 19:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 19:56	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 19:56	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 19:56	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 19:56	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 19:56	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 19:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 19:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 19:56	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/01/21 14:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/05/21 11:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 11:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/05/21 11:23	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-36		Lab ID: 92524632003		Collected: 02/24/21 14:06		Received: 02/26/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	6.69	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.44	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 14:51	7440-66-6	
Calcium	13.6	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 14:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00068J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:02	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:02	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:02	7440-41-7	
Boron	0.0062J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:02	7440-42-8	
Cadmium	0.0012	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:02	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:02	7440-50-8	
Lead	0.000062J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:02	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:02	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:02	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:02	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		03/01/21 14:54		
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		03/05/21 11:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 11:39	16984-48-8	
Sulfate	0.51J	mg/L	1.0	0.50	1		03/05/21 11:39	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWA-37		Lab ID: 92524632004		Collected: 02/24/21 12:56		Received: 02/26/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	5.49	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0038J	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 14:56	7440-66-6	
Calcium	0.71J	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 14:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0012J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:07	7440-38-2	
Barium	0.0044J	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:07	7440-48-4	
Copper	0.0083	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:07	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:07	7439-92-1	
Nickel	0.010	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:07	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:07	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:07	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:07	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:07	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000091J	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	10.0	mg/L	10.0	10.0	1		03/01/21 14:54		
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		03/05/21 11:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 11:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/05/21 11:55	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-38 **Lab ID: 92524632005** Collected: 02/24/21 11:02 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	5.23	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:01	7440-66-6	
Calcium	1.2	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:13	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:13	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:13	7440-43-9	
Chromium	0.0018J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:13	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:13	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:13	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:13	7439-92-1	
Nickel	0.00091J	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:13	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:13	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:13	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:13	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:13	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	12.0	mg/L	10.0	10.0	1		03/01/21 14:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		03/05/21 12:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 12:43	16984-48-8	
Sulfate	0.72J	mg/L	1.0	0.50	1		03/05/21 12:43	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-52 **Lab ID: 92524632006** Collected: 02/24/21 16:10 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.53	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:35	7440-66-6	
Calcium	37.1	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:30	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:30	7440-41-7	
Boron	0.0099J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:30	7440-43-9	
Chromium	0.00097J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:30	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:30	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:30	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:30	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:30	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	144	mg/L	10.0	10.0	1		03/01/21 14:54		
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		03/05/21 12:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 12:59	16984-48-8	
Sulfate	29.2	mg/L	1.0	0.50	1		03/05/21 12:59	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: FB-2 **Lab ID: 92524632007** Collected: 02/25/21 16:52 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:40	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:36	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:36	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:36	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:36	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:36	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:36	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:36	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:36	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/01/21 14:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/05/21 13:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 13:15	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/05/21 13:15	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWA-51RZ	Lab ID: 92524632008	Collected: 02/25/21 11:20	Received: 02/26/21 16:08	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.43	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:45	7440-66-6	
Calcium	49.8	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:45	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00061J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:42	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:42	7440-41-7	
Boron	0.0052J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:42	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:42	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:42	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:42	7440-02-0	
Selenium	0.0099	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:42	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:42	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:42	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:42	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	217	mg/L	10.0	10.0	1		03/01/21 14:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/05/21 13:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 13:31	16984-48-8	
Sulfate	29.5	mg/L	1.0	0.50	1		03/05/21 13:31	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWA-54	Lab ID: 92524632009	Collected: 02/25/21 13:38	Received: 02/26/21 16:08	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.55	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:51	7440-66-6	
Calcium	25.3	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:47	7440-38-2	
Barium	0.034	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:47	7440-43-9	
Chromium	0.0017J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:47	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:47	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:47	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:47	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:47	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:47	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:47	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:47	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	124	mg/L	10.0	10.0	1		03/01/21 14:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.78J	mg/L	1.0	0.60	1		03/05/21 13:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 13:47	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/05/21 13:47	14808-79-8	M1

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-55 **Lab ID: 92524632010** Collected: 02/25/21 14:54 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.05	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 15:55	7440-66-6	
Calcium	48.5	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 15:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:53	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:53	7440-41-7	
Boron	0.0075J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:53	7440-43-9	
Chromium	0.00078J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:53	7440-47-3	
Cobalt	0.0039J	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:53	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:53	7440-50-8	
Lead	0.000090J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:53	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:53	7440-02-0	
Selenium	0.0018J	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:53	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:53	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	217	mg/L	10.0	10.0	1		03/01/21 14:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	0.60	1		03/05/21 14:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 14:35	16984-48-8	
Sulfate	34.5	mg/L	1.0	0.50	1		03/05/21 14:35	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWA-55R	Lab ID: 92524632011	Collected: 02/25/21 16:21	Received: 02/26/21 16:08	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.27	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:00	7440-66-6	
Calcium	44.8	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 20:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 20:59	7440-38-2	
Barium	0.034	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 20:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 20:59	7440-41-7	
Boron	0.0055J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 20:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 20:59	7440-43-9	
Chromium	0.00083J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 20:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 20:59	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 20:59	7440-50-8	
Lead	0.000038J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 20:59	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 20:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 20:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 20:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 20:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 20:59	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	194	mg/L	10.0	10.0	1		03/02/21 15:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.8	mg/L	1.0	0.60	1		03/05/21 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/21 15:14	16984-48-8	
Sulfate	23.2	mg/L	1.0	0.50	1		03/05/21 15:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-56		Lab ID: 92524632012		Collected: 02/25/21 15:22		Received: 02/26/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.85	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:05	7440-66-6	
Calcium	36.0	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:05	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:05	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:05	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:05	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:05	7440-50-8	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:05	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:05	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 14:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	284	mg/L	10.0	10.0	1		03/02/21 15:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		03/06/21 08:30	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1		03/06/21 08:30	16984-48-8	
Sulfate	62.6	mg/L	1.0	0.50	1		03/06/21 08:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: DUP-2 **Lab ID: 92524632013** Collected: 02/26/21 00:00 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:10	7440-66-6	
Calcium	29.8	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:10	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:10	7440-39-3	
Beryllium	0.000047J	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:10	7440-43-9	
Chromium	0.00075J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:10	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:10	7440-50-8	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:10	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:10	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:10	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:10	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	115	mg/L	10.0	10.0	1		03/02/21 15:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		03/06/21 08:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 08:46	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/06/21 08:46	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: FB-3 **Lab ID: 92524632014** Collected: 02/26/21 13:28 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:14	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:16	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:16	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:16	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:16	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:16	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:16	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/02/21 15:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 09:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 09:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 09:02	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: EB-1		Lab ID: 92524632015		Collected: 02/26/21 13:34		Received: 02/26/21 16:08		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:34	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:34	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:22	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:22	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:22	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:22	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:22	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:22	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:22	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:22	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:22	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:22	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:22	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:22	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:22	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:22	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:22	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/02/21 15:42			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 09:18	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 09:18	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 09:18	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWA-53									
Lab ID: 92524632016									
Collected: 02/26/21 12:40									
Received: 02/26/21 16:08									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.70	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:39	7440-66-6	
Calcium	29.6	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:39	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:39	7440-39-3	
Beryllium	0.000051J	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:39	7440-43-9	
Chromium	0.00080J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:39	7440-50-8	
Lead	0.00012J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:39	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:39	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:39	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	128	mg/L	10.0	10.0	1		03/02/21 15:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.3	mg/L	1.0	0.60	1		03/06/21 09:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 09:34	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/06/21 09:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWA-53R **Lab ID: 92524632017** Collected: 02/26/21 11:06 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.72	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:44	7440-66-6	
Calcium	31.1	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:44	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00060J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:45	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:45	7440-43-9	
Chromium	0.00071J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:45	7440-50-8	
Lead	0.000064J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:45	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:45	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:45	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	98.0	mg/L	10.0	10.0	1		03/02/21 15:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		03/06/21 09:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 09:50	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/06/21 09:50	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-18 **Lab ID: 92524632018** Collected: 02/26/21 11:20 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.07	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:49	7440-66-6	
Calcium	25.2	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:50	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:50	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:50	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:50	7440-50-8	
Lead	0.000094J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:50	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:50	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:50	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:50	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	90.0	mg/L	10.0	10.0	1		03/02/21 15:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.3	mg/L	1.0	0.60	1		03/06/21 10:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 10:06	16984-48-8	
Sulfate	2.1	mg/L	1.0	0.50	1		03/06/21 10:06	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-18R **Lab ID: 92524632019** Collected: 02/26/21 12:28 Received: 02/26/21 16:08 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.81	Std. Units			1		03/02/21 09:20		

6010D ATL ICP

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

Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:53	7440-66-6	
Calcium	31.9	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:53	7440-70-2	

6020 MET ICPMS

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

Antimony	0.00059J	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 21:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 21:56	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 21:56	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 21:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 21:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 21:56	7440-43-9	
Chromium	0.00069J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 21:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 21:56	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 21:56	7440-50-8	
Lead	0.00025J	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 21:56	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 21:56	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 21:56	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 21:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 21:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 21:56	7440-62-2	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:41	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	121	mg/L	10.0	10.0	1		03/02/21 15:42		
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300.0 IC Anions 28 Days

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

Chloride	2.4	mg/L	1.0	0.60	1		03/04/21 22:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/04/21 22:34	16984-48-8	
Sulfate	2.1	mg/L	1.0	0.50	1		03/04/21 22:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-19R **Lab ID: 92524632020** Collected: 02/26/21 13:32 Received: 02/26/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 09:20		
pH	7.73	Std. Units			1		03/02/21 09:20		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/02/21 10:39	03/03/21 16:58	7440-66-6	
Calcium	33.3	mg/L	1.0	0.070	1	03/02/21 10:39	03/03/21 16:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 12:49	03/04/21 22:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 12:49	03/04/21 22:02	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/02/21 12:49	03/04/21 22:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 12:49	03/04/21 22:02	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 12:49	03/04/21 22:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 12:49	03/04/21 22:02	7440-43-9	
Chromium	0.00067J	mg/L	0.0050	0.00055	1	03/02/21 12:49	03/04/21 22:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 12:49	03/04/21 22:02	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/02/21 12:49	03/04/21 22:02	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 12:49	03/04/21 22:02	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/02/21 12:49	03/04/21 22:02	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 12:49	03/04/21 22:02	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/02/21 12:49	03/04/21 22:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 12:49	03/04/21 22:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/02/21 12:49	03/04/21 22:02	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	172	mg/L	10.0	10.0	1		03/02/21 15:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		03/04/21 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/04/21 22:49	16984-48-8	
Sulfate	3.4	mg/L	1.0	0.50	1		03/04/21 22:49	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: DUP-3		Lab ID: 92524632021		Collected: 03/09/21 00:00		Received: 03/10/21 08:56		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 00:39	7440-66-6		
Calcium	35.7	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 00:39	7440-70-2	M1	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 19:22	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 19:22	7440-38-2		
Barium	0.028	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 19:22	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 19:22	7440-41-7		
Boron	0.0098J	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 19:22	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 19:22	7440-43-9		
Chromium	0.00090J	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 19:22	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 19:22	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 19:22	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 19:22	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 19:22	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 19:22	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 19:22	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 19:22	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 19:22	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:08	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	167	mg/L	10.0	10.0	1		03/13/21 15:58			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	2.9	mg/L	1.0	0.60	1		04/04/21 18:00	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/04/21 18:00	16984-48-8		
Sulfate	1.7	mg/L	1.0	0.50	1		04/04/21 18:00	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: FB-4 **Lab ID: 92524632022** Collected: 03/09/21 16:39 Received: 03/10/21 08:56 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 00:59	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 00:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0017J	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 19:45	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 19:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 19:45	7440-41-7	
Boron	0.0089J	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 19:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 19:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 19:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 19:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 19:45	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 19:45	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 19:45	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 19:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 19:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 19:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 19:45	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/13/21 15:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		03/17/21 06:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 06:00	16984-48-8	
Sulfate	1.4	mg/L	1.0	0.50	1		03/17/21 06:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWC-16R **Lab ID: 92524632023** Collected: 03/09/21 09:53 Received: 03/10/21 08:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.34	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.025	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:13	7440-66-6	
Calcium	76.4	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.018	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 19:50	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 19:50	7440-38-2	
Barium	0.058	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 19:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 19:50	7440-41-7	
Boron	0.028J	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 19:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 19:50	7440-43-9	
Chromium	0.0024J	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 19:50	7440-47-3	
Cobalt	0.00047J	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 19:50	7440-48-4	
Copper	0.0025J	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 19:50	7440-50-8	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 19:50	7439-92-1	
Nickel	0.0053	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 19:50	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 19:50	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 19:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 19:50	7440-28-0	
Vanadium	0.0030J	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 19:50	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	335	mg/L	10.0	10.0	1		03/13/21 15:59		
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		03/17/21 06:45	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.050	1		03/17/21 06:45	16984-48-8	
Sulfate	12.9	mg/L	1.0	0.50	1		03/17/21 06:45	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWC-20R		Lab ID: 92524632024		Collected: 03/09/21 14:21		Received: 03/10/21 08:56		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.81	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:18	7440-66-6	
Calcium	35.8	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 19:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 19:56	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 19:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 19:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 19:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 19:56	7440-43-9	
Chromium	0.00094J	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 19:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 19:56	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 19:56	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 19:56	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 19:56	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 19:56	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 19:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 19:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 19:56	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	163	mg/L	10.0	10.0	1		03/13/21 15:59		
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		03/17/21 07:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 07:00	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/17/21 07:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-21R		Lab ID: 92524632025		Collected: 03/09/21 15:56		Received: 03/10/21 08:56		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	6.98	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:23	7440-66-6	
Calcium	64.1	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0024J	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:02	7440-36-0	
Arsenic	0.0045J	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:02	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:02	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:02	7440-47-3	
Cobalt	0.00040J	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:02	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:02	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:02	7439-92-1	
Nickel	0.00075J	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:02	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:02	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:02	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	286	mg/L	10.0	10.0	1		03/13/21 16:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		03/17/21 07:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 07:15	16984-48-8	
Sulfate	10.5	mg/L	1.0	0.50	1		03/17/21 07:15	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-22R		Lab ID: 92524632026		Collected: 03/09/21 16:25		Received: 03/10/21 08:56		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.35	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:28	7440-66-6	
Calcium	35.7	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:19	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:19	7440-38-2	
Barium	0.045	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:19	7440-41-7	
Boron	0.0058J	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:19	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:19	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:19	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:19	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:19	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:19	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:19	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	161	mg/L	10.0	10.0	1		03/13/21 16:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		03/17/21 07:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 07:30	16984-48-8	
Sulfate	1.4	mg/L	1.0	0.50	1		03/17/21 07:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-24R **Lab ID: 92524632027** Collected: 03/09/21 14:01 Received: 03/10/21 08:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.80	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0063J	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:33	7440-66-6	
Calcium	33.2	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00035J	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:25	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:25	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:25	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:25	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:25	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:25	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:25	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	158	mg/L	10.0	10.0	1		03/13/21 16:00		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		03/17/21 07:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 07:45	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/17/21 07:45	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Sample: GWC-25R	Lab ID: 92524632028	Collected: 03/09/21 11:48	Received: 03/10/21 08:56	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	8.07	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:37	7440-66-6	
Calcium	36.4	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:31	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:31	7440-43-9	
Chromium	0.00079J	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:31	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:31	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:31	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:31	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:31	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:31	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:31	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:31	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	153	mg/L	10.0	10.0	1		03/13/21 16:01		
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		03/17/21 08:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 08:00	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/17/21 08:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: FB-5 **Lab ID: 92524632029** Collected: 03/10/21 16:37 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:42	7440-66-6	
Calcium	ND	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:48	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:48	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:48	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:48	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:48	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:48	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:48	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:48	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:48	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/16/21 14:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/18/21 10:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 10:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 10:06	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-23R		Lab ID: 92524632030		Collected: 03/10/21 10:40		Received: 03/12/21 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.41	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:47	7440-66-6	
Calcium	62.2	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:53	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:53	7440-43-9	
Chromium	0.00073J	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:53	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:53	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:53	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:53	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:53	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:53	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:53	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:53	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	333	mg/L	10.0	10.0	1		03/16/21 14:42		
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		03/18/21 10:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 10:34	16984-48-8	
Sulfate	56.8	mg/L	1.0	0.50	1		03/18/21 10:34	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Sample: GWC-17R **Lab ID: 92524632031** Collected: 03/10/21 10:02 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:52		
pH	7.27	Std. Units			1		03/22/21 11:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/18/21 12:20	03/20/21 01:52	7440-66-6	
Calcium	67.1	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 01:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 20:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 20:59	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 20:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 20:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 20:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 20:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 20:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 20:59	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/18/21 12:57	03/18/21 20:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 20:59	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/18/21 12:57	03/18/21 20:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 20:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/18/21 12:57	03/18/21 20:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 20:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/18/21 12:57	03/18/21 20:59	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	256	mg/L	10.0	10.0	1		03/16/21 14:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		03/18/21 11:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 11:29	16984-48-8	
Sulfate	7.3	mg/L	1.0	0.50	1		03/18/21 11:29	14808-79-8	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch:	603524	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020		

METHOD BLANK:	3179510	Matrix:	Water
Associated Lab Samples:	92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/03/21 14:32	
Zinc	mg/L	ND	0.020	0.0035	03/03/21 14:32	

LABORATORY CONTROL SAMPLE: 3179511						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Zinc	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179512												3179513	
Parameter	Units	92524632005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Calcium	mg/L	1.2	1	1	2.2	2.2	101	103	75-125	1	20		
Zinc	mg/L	ND	1	1	0.96	0.95	96	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch: 607584

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

METHOD BLANK: 3200680

Matrix: Water

Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/20/21 00:30	
Zinc	mg/L	ND	0.020	0.0035	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Zinc	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632021 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	35.7	1	1	39.0	38.7	328	296	75-125	1	20	M1	
Zinc	mg/L	ND	1	1	1.0	1.0	100	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch: 603570 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

METHOD BLANK: 3179727 Matrix: Water

Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/04/21 19:22	
Arsenic	mg/L	ND	0.0050	0.00078	03/04/21 19:22	
Barium	mg/L	ND	0.0050	0.00071	03/04/21 19:22	
Beryllium	mg/L	ND	0.00050	0.000046	03/04/21 19:22	
Boron	mg/L	ND	0.040	0.0052	03/04/21 19:22	
Cadmium	mg/L	ND	0.00050	0.00012	03/04/21 19:22	
Chromium	mg/L	ND	0.0050	0.00055	03/04/21 19:22	
Cobalt	mg/L	ND	0.0050	0.00038	03/04/21 19:22	
Copper	mg/L	ND	0.0050	0.0017	03/04/21 19:22	
Lead	mg/L	ND	0.0010	0.000036	03/04/21 19:22	
Nickel	mg/L	ND	0.0050	0.00069	03/04/21 19:22	
Selenium	mg/L	ND	0.0050	0.0016	03/04/21 19:22	
Silver	mg/L	ND	0.0050	0.00036	03/04/21 19:22	
Thallium	mg/L	ND	0.0010	0.00014	03/04/21 19:22	
Vanadium	mg/L	ND	0.010	0.0022	03/04/21 19:22	

LABORATORY CONTROL SAMPLE: 3179728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Copper	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Silver	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	
Vanadium	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Parameter	Units	3179729		3179730		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	109	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	102	100	75-125	2	20		
Beryllium	mg/L	0.00021J	0.1	0.1	0.096	0.096	96	96	75-125	1	20		
Boron	mg/L	0.012J	1	1	0.98	0.97	97	96	75-125	2	20		
Cadmium	mg/L	0.0010	0.1	0.1	0.10	0.099	99	98	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Copper	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Lead	mg/L	0.000058J	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Nickel	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	4	20		
Silver	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.094	0.096	94	95	75-125	1	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch:	607620	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

METHOD BLANK: 3200852 Matrix: Water

Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/18/21 19:10	
Arsenic	mg/L	ND	0.0050	0.00078	03/18/21 19:10	
Barium	mg/L	ND	0.0050	0.00071	03/18/21 19:10	
Beryllium	mg/L	ND	0.00050	0.000046	03/18/21 19:10	
Boron	mg/L	ND	0.040	0.0052	03/18/21 19:10	
Cadmium	mg/L	ND	0.00050	0.00012	03/18/21 19:10	
Chromium	mg/L	ND	0.0050	0.00055	03/18/21 19:10	
Cobalt	mg/L	ND	0.0050	0.00038	03/18/21 19:10	
Copper	mg/L	ND	0.0050	0.0017	03/18/21 19:10	
Lead	mg/L	ND	0.0010	0.000036	03/18/21 19:10	
Nickel	mg/L	ND	0.0050	0.00069	03/18/21 19:10	
Selenium	mg/L	ND	0.0050	0.0016	03/18/21 19:10	
Silver	mg/L	ND	0.0050	0.00036	03/18/21 19:10	
Thallium	mg/L	ND	0.0010	0.00014	03/18/21 19:10	
Vanadium	mg/L	ND	0.010	0.0022	03/18/21 19:10	

LABORATORY CONTROL SAMPLE: 3200853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Copper	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Nickel	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Silver	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Parameter	Units	3200854		3200855		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92524632021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	112	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	100	101	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20	
Boron	mg/L	0.0098J	1	1	1.0	1.1	99	104	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Chromium	mg/L	0.00090J	0.1	0.1	0.10	0.11	103	107	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	102	107	75-125	5	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	105	109	75-125	3	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 603897 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012

METHOD BLANK: 3181291 Matrix: Water
 Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/04/21 12:39	

LABORATORY CONTROL SAMPLE: 3181292

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3181293 3181294

Parameter	Units	92523277033 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	0.0023	0.0024	93	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 604308 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

METHOD BLANK: 3183676 Matrix: Water
 Associated Lab Samples: 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/05/21 10:07	

LABORATORY CONTROL SAMPLE: 3183677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183678 3183679

Parameter	Units	92524632013 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	0.0026	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch: 607630 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

METHOD BLANK: 3200899 Matrix: Water
 Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028, 92524632029, 92524632030, 92524632031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/23/21 11:04	

LABORATORY CONTROL SAMPLE: 3200900

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: 3200901 3200902

Parameter	Units	92526941005		3200902		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Mercury	mg/L	ND	0.0025	0.0024	0.0025	97	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 603268 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010

METHOD BLANK: 3178563 Matrix: Water
 Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/01/21 14:53	

LABORATORY CONTROL SAMPLE: 3178564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	84-108	

SAMPLE DUPLICATE: 3178565

Parameter	Units	92524346001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	35.0	36.0	3	10	

SAMPLE DUPLICATE: 3178566

Parameter	Units	92524351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	390	590	41	10 D6	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 603554 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

METHOD BLANK: 3179650 Matrix: Water
 Associated Lab Samples: 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018, 92524632019, 92524632020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/02/21 15:40	

LABORATORY CONTROL SAMPLE: 3179651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3179652

Parameter	Units	92524632011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	194	196	1	10	

SAMPLE DUPLICATE: 3179653

Parameter	Units	92524632016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	129	1	10	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 606469 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028

METHOD BLANK: 3195229 Matrix: Water
 Associated Lab Samples: 92524632021, 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/13/21 15:56	

LABORATORY CONTROL SAMPLE: 3195230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	369	92	90-111	

SAMPLE DUPLICATE: 3195231

Parameter	Units	92526337015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	216	203	6	10	

SAMPLE DUPLICATE: 3195232

Parameter	Units	92524632027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	158	141	11	10 D6	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

QC Batch: 606867 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524632029, 92524632030, 92524632031

METHOD BLANK: 3197209 Matrix: Water
 Associated Lab Samples: 92524632029, 92524632030, 92524632031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/16/21 14:40	

LABORATORY CONTROL SAMPLE: 3197210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	90-111	

SAMPLE DUPLICATE: 3197211

Parameter	Units	92527319007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1300	1520	16	10	D6

SAMPLE DUPLICATE: 3197212

Parameter	Units	92524632030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	333	356	7	10	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch:	603818	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: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018

METHOD BLANK: 3180911 Matrix: Water

Associated Lab Samples: 92524632001, 92524632002, 92524632003, 92524632004, 92524632005, 92524632006, 92524632007, 92524632008, 92524632009, 92524632010, 92524632011, 92524632012, 92524632013, 92524632014, 92524632015, 92524632016, 92524632017, 92524632018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/05/21 09:31	
Fluoride	mg/L	ND	0.10	0.050	03/05/21 09:31	
Sulfate	mg/L	ND	1.0	0.50	03/05/21 09:31	

LABORATORY CONTROL SAMPLE: 3180912

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	2.7	107	90-110	
Sulfate	mg/L	50	54.9	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180913 3180914

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523047009 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	141	50	50	176	180	70	76	90-110	2	10 M1
Fluoride	mg/L	0.074J	2.5	2.5	2.8	2.8	107	111	90-110	4	10 M1
Sulfate	mg/L	35.7	50	50	91.0	92.4	111	113	90-110	2	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180915 3180916

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632009 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	0.78J	50	50	52.9	53.6	104	106	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	108	90-110	1	10
Sulfate	mg/L	1.7	50	50	56.9	57.6	110	112	90-110	1	10 M1

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch:	604201	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: 92524632019, 92524632020

METHOD BLANK: 3182935 Matrix: Water

Associated Lab Samples: 92524632019, 92524632020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/04/21 17:32	
Fluoride	mg/L	ND	0.10	0.050	03/04/21 17:32	
Sulfate	mg/L	ND	1.0	0.50	03/04/21 17:32	

LABORATORY CONTROL SAMPLE: 3182936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3182937 3182938

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525225002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	62.4	50	50	50	105	106	86	87	90-110	1	10	M1
Fluoride	mg/L	0.42	2.5	2.5	2.5	3.2	3.3	113	113	90-110	0	10	M1
Sulfate	mg/L	99.7	50	50	50	141	141	82	84	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3182939 3182940

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523259006	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.3	50	50	50	50.8	51.0	99	99	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	50	50.4	50.6	100	100	90-110	0	10	

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch:	606814	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: 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028

METHOD BLANK: 3196945 Matrix: Water
 Associated Lab Samples: 92524632022, 92524632023, 92524632024, 92524632025, 92524632026, 92524632027, 92524632028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/17/21 01:31	
Fluoride	mg/L	ND	0.10	0.050	03/17/21 01:31	
Sulfate	mg/L	ND	1.0	0.50	03/17/21 01:31	

LABORATORY CONTROL SAMPLE: 3196946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.8	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196947 3196948

Parameter	Units	92526337010		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	0.74J	50	50	47.3	48.4	93	95	90-110	2	10		
Fluoride	mg/L	0.080J	2.5	2.5	2.4	2.5	95	97	90-110	3	10		
Sulfate	mg/L	65.1	50	50	101	102	71	74	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196949 3196950

Parameter	Units	92524632022		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	1.8	50	50	50.5	50.8	97	98	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	96	90-110	0	10		
Sulfate	mg/L	1.4	50	50	50.5	50.8	98	99	90-110	1	10		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

QC Batch: 607174 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: 92524632029, 92524632030, 92524632031

METHOD BLANK: 3198676 Matrix: Water
 Associated Lab Samples: 92524632029, 92524632030, 92524632031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/18/21 03:50	
Fluoride	mg/L	ND	0.10	0.050	03/18/21 03:50	
Sulfate	mg/L	ND	1.0	0.50	03/18/21 03:50	

LABORATORY CONTROL SAMPLE: 3198677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198678 3198679

Parameter	Units	92527492002		3198678		3198679		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50	52.8	51.9	106	104	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.8	2.7	112	109	90-110	3	10	M1	
Sulfate	mg/L	ND	50	50	55.0	54.1	110	108	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198680 3198681

Parameter	Units	92527492012		3198680		3198681		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	4.0	50	50	54.9	57.3	102	107	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	107	90-110	4	10		
Sulfate	mg/L	4.2	50	50	56.9	59.2	105	110	90-110	4	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN LF CELLS 3&4
Pace Project No.: 92524632

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524632003	GWA-36				
92524632004	GWA-37				
92524632005	GWA-38				
92524632006	GWA-52				
92524632008	GWA-51RZ				
92524632009	GWA-54				
92524632010	GWA-55				
92524632011	GWA-55R				
92524632012	GWA-56				
92524632016	GWA-53				
92524632017	GWA-53R				
92524632018	GWC-18				
92524632019	GWC-18R				
92524632020	GWC-19R				
92524632023	GWC-16R				
92524632024	GWC-20R				
92524632025	GWC-21R				
92524632026	GWC-22R				
92524632027	GWC-24R				
92524632028	GWC-25R				
92524632030	GWC-23R				
92524632031	GWC-17R				
92524632001	DUP-1	EPA 3010A	603524	EPA 6010D	603612
92524632002	FB-1	EPA 3010A	603524	EPA 6010D	603612
92524632003	GWA-36	EPA 3010A	603524	EPA 6010D	603612
92524632004	GWA-37	EPA 3010A	603524	EPA 6010D	603612
92524632005	GWA-38	EPA 3010A	603524	EPA 6010D	603612
92524632006	GWA-52	EPA 3010A	603524	EPA 6010D	603612
92524632007	FB-2	EPA 3010A	603524	EPA 6010D	603612
92524632008	GWA-51RZ	EPA 3010A	603524	EPA 6010D	603612
92524632009	GWA-54	EPA 3010A	603524	EPA 6010D	603612
92524632010	GWA-55	EPA 3010A	603524	EPA 6010D	603612
92524632011	GWA-55R	EPA 3010A	603524	EPA 6010D	603612
92524632012	GWA-56	EPA 3010A	603524	EPA 6010D	603612
92524632013	DUP-2	EPA 3010A	603524	EPA 6010D	603612
92524632014	FB-3	EPA 3010A	603524	EPA 6010D	603612
92524632015	EB-1	EPA 3010A	603524	EPA 6010D	603612
92524632016	GWA-53	EPA 3010A	603524	EPA 6010D	603612
92524632017	GWA-53R	EPA 3010A	603524	EPA 6010D	603612
92524632018	GWC-18	EPA 3010A	603524	EPA 6010D	603612
92524632019	GWC-18R	EPA 3010A	603524	EPA 6010D	603612
92524632020	GWC-19R	EPA 3010A	603524	EPA 6010D	603612
92524632021	DUP-3	EPA 3010A	607584	EPA 6010D	607676
92524632022	FB-4	EPA 3010A	607584	EPA 6010D	607676
92524632023	GWC-16R	EPA 3010A	607584	EPA 6010D	607676
92524632024	GWC-20R	EPA 3010A	607584	EPA 6010D	607676
92524632025	GWC-21R	EPA 3010A	607584	EPA 6010D	607676
92524632026	GWC-22R	EPA 3010A	607584	EPA 6010D	607676

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524632027	GWC-24R	EPA 3010A	607584	EPA 6010D	607676
92524632028	GWC-25R	EPA 3010A	607584	EPA 6010D	607676
92524632029	FB-5	EPA 3010A	607584	EPA 6010D	607676
92524632030	GWC-23R	EPA 3010A	607584	EPA 6010D	607676
92524632031	GWC-17R	EPA 3010A	607584	EPA 6010D	607676
92524632001	DUP-1	EPA 3005A	603570	EPA 6020B	603696
92524632002	FB-1	EPA 3005A	603570	EPA 6020B	603696
92524632003	GWA-36	EPA 3005A	603570	EPA 6020B	603696
92524632004	GWA-37	EPA 3005A	603570	EPA 6020B	603696
92524632005	GWA-38	EPA 3005A	603570	EPA 6020B	603696
92524632006	GWA-52	EPA 3005A	603570	EPA 6020B	603696
92524632007	FB-2	EPA 3005A	603570	EPA 6020B	603696
92524632008	GWA-51RZ	EPA 3005A	603570	EPA 6020B	603696
92524632009	GWA-54	EPA 3005A	603570	EPA 6020B	603696
92524632010	GWA-55	EPA 3005A	603570	EPA 6020B	603696
92524632011	GWA-55R	EPA 3005A	603570	EPA 6020B	603696
92524632012	GWA-56	EPA 3005A	603570	EPA 6020B	603696
92524632013	DUP-2	EPA 3005A	603570	EPA 6020B	603696
92524632014	FB-3	EPA 3005A	603570	EPA 6020B	603696
92524632015	EB-1	EPA 3005A	603570	EPA 6020B	603696
92524632016	GWA-53	EPA 3005A	603570	EPA 6020B	603696
92524632017	GWA-53R	EPA 3005A	603570	EPA 6020B	603696
92524632018	GWC-18	EPA 3005A	603570	EPA 6020B	603696
92524632019	GWC-18R	EPA 3005A	603570	EPA 6020B	603696
92524632020	GWC-19R	EPA 3005A	603570	EPA 6020B	603696
92524632021	DUP-3	EPA 3005A	607620	EPA 6020B	607757
92524632022	FB-4	EPA 3005A	607620	EPA 6020B	607757
92524632023	GWC-16R	EPA 3005A	607620	EPA 6020B	607757
92524632024	GWC-20R	EPA 3005A	607620	EPA 6020B	607757
92524632025	GWC-21R	EPA 3005A	607620	EPA 6020B	607757
92524632026	GWC-22R	EPA 3005A	607620	EPA 6020B	607757
92524632027	GWC-24R	EPA 3005A	607620	EPA 6020B	607757
92524632028	GWC-25R	EPA 3005A	607620	EPA 6020B	607757
92524632029	FB-5	EPA 3005A	607620	EPA 6020B	607757
92524632030	GWC-23R	EPA 3005A	607620	EPA 6020B	607757
92524632031	GWC-17R	EPA 3005A	607620	EPA 6020B	607757
92524632001	DUP-1	EPA 7470A	603897	EPA 7470A	604168
92524632002	FB-1	EPA 7470A	603897	EPA 7470A	604168
92524632003	GWA-36	EPA 7470A	603897	EPA 7470A	604168
92524632004	GWA-37	EPA 7470A	603897	EPA 7470A	604168
92524632005	GWA-38	EPA 7470A	603897	EPA 7470A	604168
92524632006	GWA-52	EPA 7470A	603897	EPA 7470A	604168
92524632007	FB-2	EPA 7470A	603897	EPA 7470A	604168
92524632008	GWA-51RZ	EPA 7470A	603897	EPA 7470A	604168
92524632009	GWA-54	EPA 7470A	603897	EPA 7470A	604168
92524632010	GWA-55	EPA 7470A	603897	EPA 7470A	604168
92524632011	GWA-55R	EPA 7470A	603897	EPA 7470A	604168

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92524632

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524632012	GWA-56	EPA 7470A	603897	EPA 7470A	604168
92524632013	DUP-2	EPA 7470A	604308	EPA 7470A	604504
92524632014	FB-3	EPA 7470A	604308	EPA 7470A	604504
92524632015	EB-1	EPA 7470A	604308	EPA 7470A	604504
92524632016	GWA-53	EPA 7470A	604308	EPA 7470A	604504
92524632017	GWA-53R	EPA 7470A	604308	EPA 7470A	604504
92524632018	GWC-18	EPA 7470A	604308	EPA 7470A	604504
92524632019	GWC-18R	EPA 7470A	604308	EPA 7470A	604504
92524632020	GWC-19R	EPA 7470A	604308	EPA 7470A	604504
92524632021	DUP-3	EPA 7470A	607630	EPA 7470A	608236
92524632022	FB-4	EPA 7470A	607630	EPA 7470A	608236
92524632023	GWC-16R	EPA 7470A	607630	EPA 7470A	608236
92524632024	GWC-20R	EPA 7470A	607630	EPA 7470A	608236
92524632025	GWC-21R	EPA 7470A	607630	EPA 7470A	608236
92524632026	GWC-22R	EPA 7470A	607630	EPA 7470A	608236
92524632027	GWC-24R	EPA 7470A	607630	EPA 7470A	608236
92524632028	GWC-25R	EPA 7470A	607630	EPA 7470A	608236
92524632029	FB-5	EPA 7470A	607630	EPA 7470A	608236
92524632030	GWC-23R	EPA 7470A	607630	EPA 7470A	608236
92524632031	GWC-17R	EPA 7470A	607630	EPA 7470A	608236
92524632001	DUP-1	SM 2450C-2011	603268		
92524632002	FB-1	SM 2450C-2011	603268		
92524632003	GWA-36	SM 2450C-2011	603268		
92524632004	GWA-37	SM 2450C-2011	603268		
92524632005	GWA-38	SM 2450C-2011	603268		
92524632006	GWA-52	SM 2450C-2011	603268		
92524632007	FB-2	SM 2450C-2011	603268		
92524632008	GWA-51RZ	SM 2450C-2011	603268		
92524632009	GWA-54	SM 2450C-2011	603268		
92524632010	GWA-55	SM 2450C-2011	603268		
92524632011	GWA-55R	SM 2450C-2011	603554		
92524632012	GWA-56	SM 2450C-2011	603554		
92524632013	DUP-2	SM 2450C-2011	603554		
92524632014	FB-3	SM 2450C-2011	603554		
92524632015	EB-1	SM 2450C-2011	603554		
92524632016	GWA-53	SM 2450C-2011	603554		
92524632017	GWA-53R	SM 2450C-2011	603554		
92524632018	GWC-18	SM 2450C-2011	603554		
92524632019	GWC-18R	SM 2450C-2011	603554		
92524632020	GWC-19R	SM 2450C-2011	603554		
92524632021	DUP-3	SM 2450C-2011	606469		
92524632022	FB-4	SM 2450C-2011	606469		
92524632023	GWC-16R	SM 2450C-2011	606469		
92524632024	GWC-20R	SM 2450C-2011	606469		
92524632025	GWC-21R	SM 2450C-2011	606469		
92524632026	GWC-22R	SM 2450C-2011	606469		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92524632

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524632027	GWC-24R	SM 2450C-2011	606469		
92524632028	GWC-25R	SM 2450C-2011	606469		
92524632029	FB-5	SM 2450C-2011	606867		
92524632030	GWC-23R	SM 2450C-2011	606867		
92524632031	GWC-17R	SM 2450C-2011	606867		
92524632001	DUP-1	EPA 300.0 Rev 2.1 1993	603818		
92524632002	FB-1	EPA 300.0 Rev 2.1 1993	603818		
92524632003	GWA-36	EPA 300.0 Rev 2.1 1993	603818		
92524632004	GWA-37	EPA 300.0 Rev 2.1 1993	603818		
92524632005	GWA-38	EPA 300.0 Rev 2.1 1993	603818		
92524632006	GWA-52	EPA 300.0 Rev 2.1 1993	603818		
92524632007	FB-2	EPA 300.0 Rev 2.1 1993	603818		
92524632008	GWA-51RZ	EPA 300.0 Rev 2.1 1993	603818		
92524632009	GWA-54	EPA 300.0 Rev 2.1 1993	603818		
92524632010	GWA-55	EPA 300.0 Rev 2.1 1993	603818		
92524632011	GWA-55R	EPA 300.0 Rev 2.1 1993	603818		
92524632012	GWA-56	EPA 300.0 Rev 2.1 1993	603818		
92524632013	DUP-2	EPA 300.0 Rev 2.1 1993	603818		
92524632014	FB-3	EPA 300.0 Rev 2.1 1993	603818		
92524632015	EB-1	EPA 300.0 Rev 2.1 1993	603818		
92524632016	GWA-53	EPA 300.0 Rev 2.1 1993	603818		
92524632017	GWA-53R	EPA 300.0 Rev 2.1 1993	603818		
92524632018	GWC-18	EPA 300.0 Rev 2.1 1993	603818		
92524632019	GWC-18R	EPA 300.0 Rev 2.1 1993	604201		
92524632020	GWC-19R	EPA 300.0 Rev 2.1 1993	604201		
92524632021	DUP-3	EPA 300.0 Rev 2.1 1993	611237		
92524632022	FB-4	EPA 300.0 Rev 2.1 1993	606814		
92524632023	GWC-16R	EPA 300.0 Rev 2.1 1993	606814		
92524632024	GWC-20R	EPA 300.0 Rev 2.1 1993	606814		
92524632025	GWC-21R	EPA 300.0 Rev 2.1 1993	606814		
92524632026	GWC-22R	EPA 300.0 Rev 2.1 1993	606814		
92524632027	GWC-24R	EPA 300.0 Rev 2.1 1993	606814		
92524632028	GWC-25R	EPA 300.0 Rev 2.1 1993	606814		
92524632029	FB-5	EPA 300.0 Rev 2.1 1993	607174		
92524632030	GWC-23R	EPA 300.0 Rev 2.1 1993	607174		
92524632031	GWC-17R	EPA 300.0 Rev 2.1 1993	607174		

REPORT OF LABORATORY ANALYSIS

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Document Name
Sample Collection Report Report (K128)
Document No
E-CAS-03-003-Rev.01

Document Revised October 28, 2010
Page 3 of 3
Creating Author By
Pace Analytical Quality Control

Laboratory receiving site(s):

Ashville Edin Greenwood Huntersville Raleigh Mechanicsville Asht Kernersville

Client Name:

G.P. Lane

Project #:

WO# : 92524632

Cover: None PVC Paper Glass Other



Locally Seal Preserved? No Yes Yes to last Yes No

Special Handling/Preservation Comments *213 D1*

Packing Method: Double Wrap Double Bags Other Other

Biological Hazard Present?

Yes No N/A

Sample Temp: *5.1*

Collection Point: *210*
ADDRESS: (City)

*Temp should be above freezing 10-15C

Samples out of temp range. Samples to be cooled to meet temp.

Cooler Temp: Controlled (C): *5.1*

WADA regulated soil: N/A, water sample

Do all samples originate in a jurisdiction governed by the United States, CA, or, or DC (regardless)?

Do samples originate from a foreign source (date, country, including means and means used)? Yes No

Yes No

Item	Yes	No	N/A	Priority
Quantity of Sample(s) Analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample(s) in sealed within 15 min. of receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Short Hold Time Analysis (30 min. or less)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
High Temp. Approval (Temp. Requested)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Workload (Volume)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5
Current Circulation (Used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
WADA Circulation (Used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Sample(s) Ready?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7
Sample(s) analysis, Sample(s) From (Priority)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Sample Label(s) (WADA/COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Analysis Date/Time (C/Analysis/Minute)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample(s) in vials (20-30 min)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Sample(s) in bags?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Sample(s) in bags (20-30 min)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments (E-CAS/MSL/DC/MSL/MSL)

Field Data Required? Yes No

Location of Sample(s) Analyzed

Client Information/Reference

Person contacted _____ Contact info _____

Project Manager (KUP) Review: _____ Date: _____

Project Manager (MFL) Review: _____ Date: _____



CHAIN OF CUSTODY / ANALYSIS REQUEST DOCUMENT
 The Chain of Custody or A/R (COA/A/R), if present, must be completed separately.

Form 1
 Section 1
 Section 2
 Section 3
 Section 4
 Section 5
 Section 6
 Section 7
 Section 8
 Section 9
 Section 10
 Section 11
 Section 12
 Section 13
 Section 14
 Section 15
 Section 16
 Section 17
 Section 18
 Section 19
 Section 20

SAMPLE ID	ANALYSIS REQUEST	COLLECTED		ANALYSIS REQUEST	DATE	TIME	BY	REMARKS	INITIALS	SIGNATURE
		DATE	TIME							
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Section 1
 Section 2
 Section 3
 Section 4
 Section 5
 Section 6
 Section 7
 Section 8
 Section 9
 Section 10
 Section 11
 Section 12
 Section 13
 Section 14
 Section 15
 Section 16
 Section 17
 Section 18
 Section 19
 Section 20

CHAIN OF CUSTODY / Analytical Request Document
 The Chain of Custody is a LEGAL DOCUMENT. It should always be filled out in complete accuracy.

Page 1 of 1

<p>Section 1</p> <p>Project Name: _____</p> <p>Requester: _____</p> <p>Request Date: _____</p> <p>Request Location: _____</p> <p>Requester Contact: _____</p> <p>Requester Phone: _____</p> <p>Requester Email: _____</p>	<p>Section 2</p> <p>Project Number: _____</p> <p>Request Number: _____</p> <p>Request Date: _____</p> <p>Request Location: _____</p> <p>Requester Contact: _____</p> <p>Requester Phone: _____</p> <p>Requester Email: _____</p>
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<p>Section 3</p> <p>Sample ID: _____</p> <p>Sample Description: _____</p> <p>Sample Location: _____</p> <p>Sample Date: _____</p> <p>Sample Time: _____</p> <p>Sample Operator: _____</p> <p>Sample Status: _____</p>	<p>Section 4</p> <p>Sample Type: _____</p> <p>Sample Weight: _____</p> <p>Sample Volume: _____</p> <p>Sample Container: _____</p> <p>Sample Preservation: _____</p> <p>Sample Storage: _____</p> <p>Sample Handling: _____</p>	<p>Section 5</p> <p>Sample ID: _____</p> <p>Sample Description: _____</p> <p>Sample Location: _____</p> <p>Sample Date: _____</p> <p>Sample Time: _____</p> <p>Sample Operator: _____</p> <p>Sample Status: _____</p>
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Date	Time	Personnel	Activity	Signature	Initials	Sample ID		Sample Description		Sample Location		Sample Date		Sample Time		Sample Operator		Sample Status		
						Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Status								
						12345	Sample Description	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Status								

<p>Section 6</p> <p>Requester Signature: _____</p> <p>Requester Title: _____</p> <p>Requester Date: _____</p> <p>Requester Location: _____</p>	<p>Section 7</p> <p>Requester Signature: _____</p> <p>Requester Title: _____</p> <p>Requester Date: _____</p> <p>Requester Location: _____</p>
---	---

<p>Section 8</p> <p>Requester Signature: _____</p> <p>Requester Title: _____</p> <p>Requester Date: _____</p> <p>Requester Location: _____</p>	<p>Section 9</p> <p>Requester Signature: _____</p> <p>Requester Title: _____</p> <p>Requester Date: _____</p> <p>Requester Location: _____</p>
---	---

2

CHAIN OF CUSTODY - Analytical Request Document

The Chain of Custody is a LEGAL DOCUMENT. All entries must be completed accurately.

Case No:	2025-0001234	Offense No:	2025-0001234
Case Name:	John Doe	Offense Name:	Aggravated Assault
Case Location:	New York, NY	Offense Location:	New York, NY
Case Date:	01/15/25	Offense Date:	01/15/25

Sample ID	Description	Quantity	Unit	Analysis			Chain of Custody										Date										
				Initials	Date	Signature	1	2	3	4	5	6	7	8	9	10		11	12								
...	
...
...

Lab Name:	New York State Laboratory	Lab Address:	123 Main St, Albany, NY
Lab Phone:	518-535-6000	Lab Fax:	518-535-6001
Lab Director:	John Doe	Lab Manager:	Jane Smith
Lab Analyst:	Jane Smith	Lab Technician:	John Doe
Lab Date:	01/15/25	Lab Time:	10:00 AM

Page 1 of 1

[Handwritten signature]
Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document
The Original Owner is a LEGAL DOCUMENT. It must be kept as is, changed accurately.

Form 1

Form 2

Form 3

Page 1 of 1

Section 1: Chain of Custody
Section 2: Analytical Request

Item #	Sample ID	Sample Description	Quantity	Unit	Container	Location	Date Collected	Collector	Analyst
1
2
3
4
5
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Section 3: Laboratory Information

Lab #	Analyst	Date	Time	Signature
...

Item #	Sample ID	Sample Description	Quantity	Unit	Container	Location	Date Collected	Collector	Analyst
1
2
3
4
5
6
7
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11
12
13
14
15
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17
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43
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Section 4: Laboratory Information

Section 5: Chain of Custody

Lab #	Analyst	Date	Time	Signature
...

CHAIN OF CUSTODY / Analytical Request Document
 This Document is a WORK DOCUMENT. An original must be completed regularly.

Form: 2 of 1

Requested by: _____
 Requested for: _____
 Requested on: _____
 Requested at: _____
 Requested by: _____
 Requested for: _____
 Requested on: _____
 Requested at: _____

SAMPLE ID New Evidence for Inv. #11, 11/11/11 Sample for Lead in evidence	DATE TIME 11/11/11 10:00 AM	QUANTITY 1	UNIT 1	LOCATION 11/11/11	CONTAINER 11/11/11	ANALYST 11/11/11	TESTS 11/11/11	RESULTS 11/11/11	COMMENTS 11/11/11	SIGNATURE 11/11/11

11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11
11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11
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11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11
11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11

ANALYST / Requester: _____
 Date: _____
 Signature: _____
 Title: _____
 Agency: _____
 Case No.: _____
 Evidence No.: _____
 Date Recd.: _____
 Date Issued: _____
 Date Returned: _____
 Date Destroyed: _____

CHAIN-OF-CUSTODY / Analytical Request Document
 This Chain-of-Custody is a legal document. All received items must be accounted for.

Signature

Page: 1 of 3

Requested By: _____
 Requested For: _____
 Requested Date: _____
 Requested Time: _____
 Requested Location: _____
 Requested Quantity: _____
 Requested Description: _____
 Requested By (Signature): _____
 Requested By (Print Name): _____
 Requested By (Title): _____
 Requested By (Phone): _____
 Requested By (Email): _____
 Requested By (Address): _____
 Requested By (City/State/Zip): _____

Item #	Description	Quantity	Unit	Material	Collection		Date	Time	Collector	Signature	Initials	Remarks
					Where	How						
1	SAMPLE ID											
2												
3												
4												
5												
6												
7												
8												
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11												
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CHAIN-OF-CUSTODY / Analytical Request Document
FBI Chain-of-Custody is a LEGAL DOCUMENT. An additional copy must be completed. **SECURE.**

Page: 1 of 1

Case No.	100-100000000	Control No.	100-100000000
Sub Case No.		Control No.	
Requesting Agency	Lab	Requesting Agency	Lab
Requesting Agency Contact		Requesting Agency Contact	
Requesting Agency Address		Requesting Agency Address	
Requesting Agency Phone		Requesting Agency Phone	
Requesting Agency Fax		Requesting Agency Fax	
Requesting Agency Email		Requesting Agency Email	
Requesting Agency Website		Requesting Agency Website	
Requesting Agency Other		Requesting Agency Other	

SAMPLE ID	Description of Sample	Quantity	Container		Packaging	Remarks
			Material	Volume		
100-100000000-1
100-100000000-2
100-100000000-3
100-100000000-4
100-100000000-5
100-100000000-6
100-100000000-7
100-100000000-8
100-100000000-9
100-100000000-10

Chain of Custody	Date	Signature	Initials	Agency
100-100000000-1
100-100000000-2
100-100000000-3
100-100000000-4
100-100000000-5
100-100000000-6
100-100000000-7
100-100000000-8
100-100000000-9
100-100000000-10

Requesting Agency	Lab	Requesting Agency	Lab
Requesting Agency Contact		Requesting Agency Contact	
Requesting Agency Address		Requesting Agency Address	
Requesting Agency Phone		Requesting Agency Phone	
Requesting Agency Fax		Requesting Agency Fax	
Requesting Agency Email		Requesting Agency Email	
Requesting Agency Website		Requesting Agency Website	
Requesting Agency Other		Requesting Agency Other	

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

Section 1 Request Information		Section 2 Sample Information		Section 3 Requester Information		Section 4 Collection and Transportation		Section 5 Analysis Information		Section 6 Remarks	
Request Number	Request Name	Sample Number	Sample Name	Requester Name	Requester Title	Collector Name	Collection Date	Analysis Date	Analysis Location	Remarks	
Request Type	Requestor	Sample Type	Sample Source	Requestor	Requestor	Collector	Collection Time	Analysis Time	Analysis Location	Remarks	
Request Status	Requestor	Sample Status	Sample Source	Requestor	Requestor	Collector	Collection Time	Analysis Time	Analysis Location	Remarks	
Request Status	Requestor	Sample Status	Sample Source	Requestor	Requestor	Collector	Collection Time	Analysis Time	Analysis Location	Remarks	
Request Status	Requestor	Sample Status	Sample Source	Requestor	Requestor	Collector	Collection Time	Analysis Time	Analysis Location	Remarks	

1. Chain of Custody is a USOL document. All relevant fields must be completed accurately.

2. The Chain of Custody is a USOL document. All relevant fields must be completed accurately.

3. The Chain of Custody is a USOL document. All relevant fields must be completed accurately.

CHAIN OF CUSTODY / Analytical Request Document

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

Number 1

Number 2

Page: 1 of 1

<p>Requester Name: _____ Requester Title: _____ Requester Phone: _____ Requester Email: _____</p>	<p>Request Date: _____ Request Time: _____ Request Location: _____</p>
<p>Request Description: _____ Requested By: _____</p>	

<p>SAMPLE ID Any description of the sample and its location.</p>	<p>Sample Description Material Name: _____ Material Type: _____ Material Quantity: _____</p>	<p>Collection Information Date of Collection: _____ Time of Collection: _____ Location of Collection: _____</p>
--	--	---

Date	Time	Location	Signature	
			Signature	Initials

<p>Requester Name: _____ Requester Title: _____ Requester Phone: _____ Requester Email: _____</p>	<p>Request Date: _____ Request Time: _____ Request Location: _____</p>
<p>Request Description: _____ Requested By: _____</p>	

Approved: _____
Date: _____

QUALITY CONTROL / Analytical Request Document
This document is a LOCAL DOCUMENT. All internal steps should be completed accurately.

Form 5

Page: 1 of 1

1. Requestor: _____
 2. Requested by: _____
 3. Requested for: _____
 4. Requested on: _____
 5. Requested at: _____
 6. Requested for: _____
 7. Requested for: _____
 8. Requested for: _____
 9. Requested for: _____
 10. Requested for: _____

SAMPLE ID
 1. Sample ID: _____
 2. Sample ID: _____
 3. Sample ID: _____
 4. Sample ID: _____
 5. Sample ID: _____
 6. Sample ID: _____
 7. Sample ID: _____
 8. Sample ID: _____
 9. Sample ID: _____
 10. Sample ID: _____

SAMPLE ID	ANALYTES	METHOD	RESULTS	QUALITY CONTROL		LABORATORY	ANALYST	DATE	TIME	REMARKS
				SPK	DUP					
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

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CHAIN-OF-CUSTODY / Analytical Request Document
 The District Laboratory is a USOP, Department of Interior, BIA, for services under contract for computer work.

Number 1: Number 2:
 Name of Project: Federal Agency:
 Location: Sampling Site:
 Date: Date:
 By: By:

Sample ID: Project Name:
 Date of Sample: Date of Analysis:
 Name of Analyst: Name of Collector:
 Name of Agency: Name of Site:
 Name of District: Name of State:
 Name of Division: Name of County:

ANALYST	DATE	TIME	LOCATION	DEPTH	METHOD	ANALYSIS		RESULT	REMARKS
						DATE	TIME		

Page: 1 of 1

CHAMBERLAIN COUNTY | Anatomical Request Document
 This document is to be used by the donor, recipient, or recipient's family to complete according to the instructions on the back of the document.

[Handwritten Signature]

Section 1
 Donor Information

Donor Name: _____
 Donor Address: _____
 Donor City: _____
 Donor State: _____
 Donor Zip: _____
 Donor Phone: _____
 Donor Email: _____
 Donor Date of Birth: _____
 Donor Sex: _____
 Donor Race: _____
 Donor Religion: _____
 Donor Marital Status: _____
 Donor Occupation: _____
 Donor Education: _____
 Donor Ethnicity: _____
 Donor Blood Type: _____
 Donor Organ Donor: Yes No

Section 2
 Recipient Information

Recipient Name: _____
 Recipient Address: _____
 Recipient City: _____
 Recipient State: _____
 Recipient Zip: _____
 Recipient Phone: _____
 Recipient Email: _____
 Recipient Date of Birth: _____
 Recipient Sex: _____
 Recipient Race: _____
 Recipient Religion: _____
 Recipient Marital Status: _____
 Recipient Occupation: _____
 Recipient Education: _____
 Recipient Ethnicity: _____
 Recipient Blood Type: _____
 Recipient Organ Recipient: Yes No

Page 1 of 1

EXAMPLE ID
 Donor ID: 123456789
 Recipient ID: 987654321
 Donor Name: John Doe
 Recipient Name: Jane Smith
 Donor Address: 123 Main St, Anytown, CA 90210
 Recipient Address: 456 Elm St, Anytown, CA 90210
 Donor Phone: (555) 123-4567
 Recipient Phone: (555) 987-6543
 Donor Email: john.doe@email.com
 Recipient Email: jane.smith@email.com
 Donor Date of Birth: 01/01/1980
 Recipient Date of Birth: 01/01/1980
 Donor Sex: M
 Recipient Sex: F
 Donor Race: W
 Recipient Race: W
 Donor Religion: C
 Recipient Religion: C
 Donor Marital Status: M
 Recipient Marital Status: M
 Donor Occupation: Teacher
 Recipient Occupation: Nurse
 Donor Education: High School
 Recipient Education: High School
 Donor Ethnicity: N/A
 Recipient Ethnicity: N/A
 Donor Blood Type: O+
 Recipient Blood Type: O+

Donor Name	Donor Address	Donor City	Donor State	Donor Zip	Donor Phone	Donor Email	Donor Date of Birth	Donor Sex	Donor Race	Donor Religion	Donor Marital Status	Donor Occupation	Donor Education	Donor Ethnicity	Donor Blood Type	Donor Organ Donor
John Doe	123 Main St	Anytown	CA	90210	(555) 123-4567	john.doe@email.com	01/01/1980	M	W	C	M	Teacher	High School	N/A	O+	<input type="checkbox"/>
Jane Smith	456 Elm St	Anytown	CA	90210	(555) 987-6543	jane.smith@email.com	01/01/1980	F	W	C	M	Nurse	High School	N/A	O+	<input type="checkbox"/>
...



April 12, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN LF CELLS 3&4
Pace Project No.: 92529993

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN LF CELLS 3&4
Pace Project No.: 92529993

Pace Analytical Services Charlotte

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

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN LF CELLS 3&4
Pace Project No.: 92529993

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529993001	FB-6	Water	03/26/21 13:22	03/26/21 16:32
92529993002	GWA-36R	Water	03/26/21 11:34	03/26/21 16:32

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529993001	FB-6	EPA 6010D	DRB	1
		EPA 6020B	KH	16
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529993002	GWA-36R	EPA 6010D	DRB	1
		EPA 6020B	KH	16
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529993001	FB-6					
EPA 6020B	Boron	0.037J	mg/L	0.040	04/06/21 00:02	
92529993002	GWA-36R					
	Performed by	CUSTOMER			03/26/21 17:24	
	pH	7.11	Std. Units		03/26/21 17:24	
EPA 6010D	Calcium	30.1	mg/L	1.0	04/01/21 18:27	
EPA 6020B	Antimony	0.00092J	mg/L	0.0030	04/06/21 00:08	
EPA 6020B	Barium	0.020	mg/L	0.0050	04/06/21 00:08	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	04/06/21 00:08	
EPA 6020B	Boron	0.019J	mg/L	0.040	04/06/21 00:08	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	04/06/21 00:08	
EPA 6020B	Chromium	0.00060J	mg/L	0.0050	04/06/21 00:08	
EPA 6020B	Lead	0.00095J	mg/L	0.0010	04/06/21 00:08	
EPA 6020B	Zinc	0.046	mg/L	0.010	04/06/21 00:08	
SM 2450C-2011	Total Dissolved Solids	123	mg/L	10.0	04/01/21 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	04/03/21 04:41	
EPA 300.0 Rev 2.1 1993	Sulfate	5.4	mg/L	1.0	04/03/21 04:41	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

Sample: FB-6 **Lab ID: 92529993001** Collected: 03/26/21 13:22 Received: 03/26/21 16:32 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	04/01/21 10:32	04/01/21 18:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/01/21 10:34	04/06/21 00:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/01/21 10:34	04/06/21 00:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	04/01/21 10:34	04/06/21 00:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/01/21 10:34	04/06/21 00:02	7440-41-7	
Boron	0.037J	mg/L	0.040	0.0052	1	04/01/21 10:34	04/06/21 00:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/01/21 10:34	04/06/21 00:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/01/21 10:34	04/06/21 00:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/01/21 10:34	04/06/21 00:02	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	04/01/21 10:34	04/06/21 00:02	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	04/01/21 10:34	04/06/21 00:02	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	04/01/21 10:34	04/06/21 00:02	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	04/01/21 10:34	04/06/21 00:02	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	04/01/21 10:34	04/06/21 00:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/01/21 10:34	04/06/21 00:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	04/01/21 10:34	04/06/21 00:02	7440-62-2	
Zinc	ND	mg/L	0.010	0.0022	1	04/01/21 10:34	04/06/21 00:02	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 10:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/01/21 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		04/03/21 04:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 04:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/03/21 04:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92529993

Sample: GWA-36R	Lab ID: 92529993002	Collected: 03/26/21 11:34	Received: 03/26/21 16:32	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/26/21 17:24		
pH	7.11	Std. Units			1		03/26/21 17:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.1	mg/L	1.0	0.070	1	04/01/21 10:32	04/01/21 18:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00092J	mg/L	0.0030	0.00028	1	04/01/21 10:34	04/06/21 00:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/01/21 10:34	04/06/21 00:08	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00071	1	04/01/21 10:34	04/06/21 00:08	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000046	1	04/01/21 10:34	04/06/21 00:08	7440-41-7	
Boron	0.019J	mg/L	0.040	0.0052	1	04/01/21 10:34	04/06/21 00:08	7440-42-8	
Cadmium	0.00015J	mg/L	0.00050	0.00012	1	04/01/21 10:34	04/06/21 00:08	7440-43-9	
Chromium	0.00060J	mg/L	0.0050	0.00055	1	04/01/21 10:34	04/06/21 00:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/01/21 10:34	04/06/21 00:08	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	04/01/21 10:34	04/06/21 00:08	7440-50-8	
Lead	0.00095J	mg/L	0.0010	0.000036	1	04/01/21 10:34	04/06/21 00:08	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	04/01/21 10:34	04/06/21 00:08	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	04/01/21 10:34	04/06/21 00:08	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	04/01/21 10:34	04/06/21 00:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/01/21 10:34	04/06/21 00:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	04/01/21 10:34	04/06/21 00:08	7440-62-2	
Zinc	0.046	mg/L	0.010	0.0022	1	04/01/21 10:34	04/06/21 00:08	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 10:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	123	mg/L	10.0	10.0	1		04/01/21 18:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		04/03/21 04:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 04:41	16984-48-8	
Sulfate	5.4	mg/L	1.0	0.50	1		04/03/21 04:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

QC Batch: 610580

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529993001, 92529993002

METHOD BLANK: 3215299

Matrix: Water

Associated Lab Samples: 92529993001, 92529993002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/01/21 15:57	

LABORATORY CONTROL SAMPLE: 3215300

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: 3215301 3215302

Parameter	Units	3215301		3215302		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	28.3	1	1	28.4	29.3	7	102	75-125	3	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

QC Batch:	610582	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529993001, 92529993002

METHOD BLANK: 3215309 Matrix: Water

Associated Lab Samples: 92529993001, 92529993002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/05/21 22:08	
Arsenic	mg/L	ND	0.0050	0.00078	04/05/21 22:08	
Barium	mg/L	ND	0.0050	0.00071	04/05/21 22:08	
Beryllium	mg/L	ND	0.00050	0.000046	04/05/21 22:08	
Boron	mg/L	ND	0.040	0.0052	04/05/21 22:08	
Cadmium	mg/L	ND	0.00050	0.00012	04/05/21 22:08	
Chromium	mg/L	ND	0.0050	0.00055	04/05/21 22:08	
Cobalt	mg/L	ND	0.0050	0.00038	04/05/21 22:08	
Lead	mg/L	ND	0.0010	0.000036	04/05/21 22:08	
Selenium	mg/L	ND	0.0050	0.0016	04/05/21 22:08	
Thallium	mg/L	ND	0.0010	0.00014	04/05/21 22:08	

LABORATORY CONTROL SAMPLE: 3215310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	105	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.11	107	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3215311 3215312

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256009	Spike Conc.	Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.12	0.11	117	114	75-125	3	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	2	20		
Barium	mg/L	0.21	0.1	0.1	0.31	0.31	103	102	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	2	20		
Boron	mg/L	0.018J	1	1	1.0	1.0	102	102	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	3	20		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

Parameter	Units	3215311		3215312		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chromium	mg/L	ND	0.1	0.1	0.10	0.14	102	143	75-125	34	20	M1,R1	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

QC Batch: 611402	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529993001, 92529993002

METHOD BLANK: 3218851 Matrix: Water

Associated Lab Samples: 92529993001, 92529993002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/07/21 09:28	

LABORATORY CONTROL SAMPLE: 3218852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3218853 3218854

Parameter	Units	3218853		3218854		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	94	89	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4
 Pace Project No.: 92529993

QC Batch: 610734 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92529993001, 92529993002

METHOD BLANK: 3215770 Matrix: Water
 Associated Lab Samples: 92529993001, 92529993002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/01/21 18:12	

LABORATORY CONTROL SAMPLE: 3215771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3215772

Parameter	Units	92529897014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	364	2	10	

SAMPLE DUPLICATE: 3215773

Parameter	Units	92529897024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	496	526	6	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

QC Batch: 610955	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: 92529993001, 92529993002

METHOD BLANK: 3217098 Matrix: Water

Associated Lab Samples: 92529993001, 92529993002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/02/21 20:21	
Fluoride	mg/L	ND	0.10	0.050	04/02/21 20:21	
Sulfate	mg/L	ND	1.0	0.50	04/02/21 20:21	

LABORATORY CONTROL SAMPLE: 3217099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	54.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217100 3217101

Parameter	Units	92530492003		3217100		3217101		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	3940	50	50	4010	3990	136	104	90-110	0	10	M6	
Fluoride	mg/L	ND	2.5	2.5	5.2J	5.3J	208	212	90-110		10	M6	
Sulfate	mg/L	1400	50	50	1470	1470	147	145	90-110	0	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217102 3217103

Parameter	Units	92529897022		3217102		3217103		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	5.7	50	50	57.7	56.5	104	102	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	97	90-110	2	10		
Sulfate	mg/L	21.3	50	50	75.3	73.9	108	105	90-110	2	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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: BOWEN LF CELLS 3&4

Pace Project No.: 92529993

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529993002	GWA-36R				
92529993001	FB-6	EPA 3010A	610580	EPA 6010D	610784
92529993002	GWA-36R	EPA 3010A	610580	EPA 6010D	610784
92529993001	FB-6	EPA 3005A	610582	EPA 6020B	610877
92529993002	GWA-36R	EPA 3005A	610582	EPA 6020B	610877
92529993001	FB-6	EPA 7470A	611402	EPA 7470A	611829
92529993002	GWA-36R	EPA 7470A	611402	EPA 7470A	611829
92529993001	FB-6	SM 2450C-2011	610734		
92529993002	GWA-36R	SM 2450C-2011	610734		
92529993001	FB-6	EPA 300.0 Rev 2.1 1993	610955		
92529993002	GWA-36R	EPA 300.0 Rev 2.1 1993	610955		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-003-Rev.07

Document Revised: October 28, 2020
Page 1 of 3
Issuing Authority:
Pace Analytical Quality Office

laboratory receiving samples:

Ashville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

LABORATORY ID:
USDA/ARS/ARS

Client Name:

G-A Power

Project #: **WO# : 92529993**

Carrier: Fed Ex UPS USPS Other
 Commercial Parcel Other



92529993

Integrity Seal Present? Yes No Seal Intact? Yes No

Date/Initials Person Examining Contents: *3/24/21 ve*

Wrapping Material: Bubble Wrap Bubble Bags None Other

Biological Tag(s) Frozen?

Yes No N/A

Refrigeration: Dry Ice Ice None

cooler Temp: 3.6 Correction Factor: -0.2
Add/Subtract (°C)

Temp should be above freezing to 5°C

Samples out of temp controls. Samples on ice, cooling process not begun

cooler Temp Corrected (°C): 3.4

USDA Regulated Soil (N/A, water sample)

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

Did samples originate from a foreign source (assess quality including harvest and packing record)? Yes No

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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

Page: 1 of 1



Section A: General Case Information
 Agency: San Jose Police Department
 Case No: 1501-100000000-00000
 Date: 1/16/16
 Location: San Jose, CA 95131

Section B: Analytical Request Information
 Requested By: [Signature]
 Requested For: [Signature]
 Project Name: 1501-100000000-00000
 Project Number: 1501-100000000-00000
 Request #:

Section C: Sample Information
 Sample ID: 1501-100000000-00000
 Date of Collection: 1/16/16
 Time of Collection: 16:35
 Location of Collection: San Jose, CA

Sample ID	Date of Collection	Time of Collection	Location of Collection	Collector		Sample Temp at Collection	# of Containers	Preservation							Analysis Test	Temperature Analysis (Y/N)	Recovery (Y/N)
				First	Last			Unpreserved	Refrigerated	Freeze	Dry Ice	Room Temp	Other	Method			
1	1/16/16	16:35	San Jose, CA	[Signature]	[Signature]	3.2	1										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Section D: Laboratory Use and Signature

Received on: 1/16/16 at 16:35
 Received by: [Signature]
 Received at: [Signature]
 Received from: [Signature]
 Received from: [Signature]
 Received from: [Signature]



April 12, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN NON ROUTINE
Pace Project No.: 92529992

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN NON ROUTINE
Pace Project No.: 92529992

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529992001	GWA-36R FILTERED	Water	03/26/21 11:34	03/26/21 16:32

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SAMPLE ANALYTE COUNT

Project: BOWEN NON ROUTINE
Pace Project No.: 92529992

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529992001	GWA-36R FILTERED	EPA 6020B	CW1	17
		EPA 7470A	VB	1

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529992001	GWA-36R FILTERED					
	Performed by	CUSTOME			03/29/21 14:48	
		R				
	pH	7.11	Std. Units		03/29/21 14:48	
EPA 6020B	Antimony, Dissolved	0.00066J	mg/L	0.0030	04/07/21 23:35	
EPA 6020B	Barium, Dissolved	0.019	mg/L	0.0050	04/09/21 16:38	
EPA 6020B	Beryllium, Dissolved	0.000058J	mg/L	0.00050	04/07/21 23:35	
EPA 6020B	Boron, Dissolved	0.011J	mg/L	0.040	04/07/21 23:35	
EPA 6020B	Calcium, Dissolved	27.2	mg/L	1.0	04/08/21 13:16	
EPA 6020B	Lead, Dissolved	0.000093J	mg/L	0.0010	04/07/21 23:35	
EPA 6020B	Zinc, Dissolved	0.030	mg/L	0.010	04/07/21 23:35	

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ANALYTICAL RESULTS

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

Sample: GWA-36R FILTERED **Lab ID: 92529992001** Collected: 03/26/21 11:34 Received: 03/26/21 16:32 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/29/21 14:48		
pH	7.11	Std. Units			1		03/29/21 14:48		

6020 MET ICPMS, Dissolved

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

Antimony, Dissolved	0.00066J	mg/L	0.0030	0.00028	1	04/07/21 12:14	04/07/21 23:35	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.0050	0.00078	1	04/07/21 12:14	04/07/21 23:35	7440-38-2	
Barium, Dissolved	0.019	mg/L	0.0050	0.00071	1	04/07/21 12:14	04/09/21 16:38	7440-39-3	
Beryllium, Dissolved	0.000058J	mg/L	0.00050	0.000046	1	04/07/21 12:14	04/07/21 23:35	7440-41-7	
Boron, Dissolved	0.011J	mg/L	0.040	0.0052	1	04/07/21 12:14	04/07/21 23:35	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.00050	0.00012	1	04/07/21 12:14	04/07/21 23:35	7440-43-9	
Calcium, Dissolved	27.2	mg/L	1.0	0.21	10	04/07/21 12:14	04/08/21 13:16	7440-70-2	
Chromium, Dissolved	ND	mg/L	0.0050	0.00055	1	04/07/21 12:14	04/07/21 23:35	7440-47-3	
Cobalt, Dissolved	ND	mg/L	0.0050	0.00038	1	04/07/21 12:14	04/07/21 23:35	7440-48-4	
Copper, Dissolved	ND	mg/L	0.0050	0.0017	1	04/07/21 12:14	04/07/21 23:35	7440-50-8	
Lead, Dissolved	0.000093J	mg/L	0.0010	0.000036	1	04/07/21 12:14	04/07/21 23:35	7439-92-1	
Nickel, Dissolved	ND	mg/L	0.0050	0.00069	1	04/07/21 12:14	04/07/21 23:35	7440-02-0	
Selenium, Dissolved	ND	mg/L	0.0050	0.0016	1	04/07/21 12:14	04/07/21 23:35	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0050	0.00036	1	04/07/21 12:14	04/07/21 23:35	7440-22-4	
Thallium, Dissolved	ND	mg/L	0.0010	0.00014	1	04/07/21 12:14	04/07/21 23:35	7440-28-0	
Vanadium, Dissolved	ND	mg/L	0.010	0.0022	1	04/07/21 12:14	04/07/21 23:35	7440-62-2	
Zinc, Dissolved	0.030	mg/L	0.010	0.0022	1	04/07/21 12:14	04/07/21 23:35	7440-66-6	

7470 Mercury, Dissolved

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

Mercury, Dissolved	ND	mg/L	0.00020	0.000078	1	04/08/21 07:45	04/08/21 13:20	7439-97-6	
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

QC Batch: 612043

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET Dissolved

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529992001

METHOD BLANK: 3221593

Matrix: Water

Associated Lab Samples: 92529992001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00028	04/07/21 23:24	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00078	04/07/21 23:24	
Barium, Dissolved	mg/L	ND	0.0050	0.00071	04/07/21 23:24	
Beryllium, Dissolved	mg/L	ND	0.00050	0.000046	04/07/21 23:24	
Boron, Dissolved	mg/L	ND	0.040	0.0052	04/07/21 23:24	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00012	04/07/21 23:24	
Calcium, Dissolved	mg/L	ND	0.10	0.021	04/07/21 23:24	
Chromium, Dissolved	mg/L	ND	0.0050	0.00055	04/07/21 23:24	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00038	04/07/21 23:24	
Copper, Dissolved	mg/L	ND	0.0050	0.0017	04/07/21 23:24	
Lead, Dissolved	mg/L	ND	0.0010	0.000036	04/07/21 23:24	
Nickel, Dissolved	mg/L	ND	0.0050	0.00069	04/07/21 23:24	
Selenium, Dissolved	mg/L	ND	0.0050	0.0016	04/07/21 23:24	
Silver, Dissolved	mg/L	ND	0.0050	0.00036	04/07/21 23:24	
Thallium, Dissolved	mg/L	ND	0.0010	0.00014	04/07/21 23:24	
Vanadium, Dissolved	mg/L	ND	0.010	0.0022	04/07/21 23:24	
Zinc, Dissolved	mg/L	ND	0.010	0.0022	04/07/21 23:24	

LABORATORY CONTROL SAMPLE: 3221594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.11	108	80-120	
Arsenic, Dissolved	mg/L	0.1	0.098	98	80-120	
Barium, Dissolved	mg/L	0.1	0.097	97	80-120	
Beryllium, Dissolved	mg/L	0.1	0.10	100	80-120	
Boron, Dissolved	mg/L	1	1.1	106	80-120	
Cadmium, Dissolved	mg/L	0.1	0.097	97	80-120	
Calcium, Dissolved	mg/L	1	1.0	102	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	102	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	101	80-120	
Copper, Dissolved	mg/L	0.1	0.098	98	80-120	
Lead, Dissolved	mg/L	0.1	0.10	101	80-120	
Nickel, Dissolved	mg/L	0.1	0.099	99	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	101	80-120	
Silver, Dissolved	mg/L	0.1	0.095	95	80-120	
Thallium, Dissolved	mg/L	0.1	0.097	97	80-120	
Vanadium, Dissolved	mg/L	0.1	0.10	101	80-120	
Zinc, Dissolved	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

Parameter	Units	3221595		3221596		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		92529992001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
Antimony, Dissolved	mg/L	0.00066J	0.1	0.1	0.12	0.11	120	105	75-125	14	20
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	4	20
Barium, Dissolved	mg/L	0.019	0.1	0.1	0.14	0.12	118	99	75-125	14	20
Beryllium, Dissolved	mg/L	0.000058J	0.1	0.1	0.10	0.098	101	98	75-125	3	20
Boron, Dissolved	mg/L	0.011J	1	1	1.0	0.99	99	98	75-125	1	20
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	3	20
Calcium, Dissolved	mg/L	27.2	1	1	29.4	28.0	227	87	75-125	5	20
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20
Copper, Dissolved	mg/L	ND	0.1	0.1	0.096	0.095	95	95	75-125	0	20
Lead, Dissolved	mg/L	0.000093J	0.1	0.1	0.10	0.096	99	96	75-125	3	20
Nickel, Dissolved	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.095	101	95	75-125	6	20
Silver, Dissolved	mg/L	ND	0.1	0.1	0.10	0.090	104	90	75-125	14	20
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.098	0.094	97	94	75-125	3	20
Vanadium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20
Zinc, Dissolved	mg/L	0.030	0.1	0.1	0.13	0.13	97	97	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN NON ROUTINE
 Pace Project No.: 92529992

QC Batch: 612053	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury Dissolved
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529992001

METHOD BLANK: 3221629 Matrix: Water
 Associated Lab Samples: 92529992001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000078	04/08/21 13:16	

LABORATORY CONTROL SAMPLE: 3221630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3221631 3221632

Parameter	Units	3221631		3221632		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92529992001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury, Dissolved	mg/L	ND	0.0025	0.0025	0.0022	0.0023	87	93	75-125	7	20	

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

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QUALIFIERS

Project: BOWEN NON ROUTINE

Pace Project No.: 92529992

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN NON ROUTINE
Pace Project No.: 92529992

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529992001	GWA-36R FILTERED				
92529992001	GWA-36R FILTERED	EPA 3005A	612043	EPA 6020B	612131
92529992001	GWA-36R FILTERED	EPA 7470A	612053	EPA 7470A	612308

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntsville Raleigh Mechanicsville Atlanta Kernersville

ISO 9001:2015
REGISTERED

Client Name:
GA Power

Project #: **W0# : 92529992**

Cooler:
 Commercial Fed Ex UPS USPS Other None



Custody Seal Present? Yes No Seal Intact? Yes No

Date/Initial Person Examining Cont. only: 10/28/20 CS

Packing Material: Bubble Wrap Bubble Bags Foam Other
Thermometer: 233 Type of Ice: ET/ICE Blue None

Biological Storage Process?
 Yes No N/A

Cooler Temp: 3.6 Correction Factor: Add/Subtract (°C) -0.2

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

Cooler Temp Corrected (°C): 3.4
USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION _____ Lot ID of split containers: _____

Person contacted: _____ Date/Time: _____

Project Manager SOURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

WO#: 92529992

verified and within the acceptance range for preservation:

PR: KLH1

Due Date: 04/09/21

Exceptions: VOA, Coliform, TOC, DR and Grease. D4D/6015 (water TOC, TOC)

CLIENT: CS-CR Power

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

Sample	SCUR	PH	DC	ST	SP	SR	SB	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
8980-174 ml, Fluoride Unpreserved (MVA) (24)																		
8980-250 ml, Nitrite Unpreserved (MVA)																		
8980-600 ml, Fluoride Unpreserved (MVA)																		
8980-120 ml, Fluoride HClO4 (pH < 2) (24)																		
8980-250 ml, Nitrate Unpreserved (MVA)																		
8980-120 ml, Fluoride H2 Formate & Acetic (24)																		
8980-120 ml, Fluoride HClO4 (pH < 1) (24)																		
9920-1000 ml, Unpreserved Glass jar Unpreserved																		
AD161-1 500 ml, Amber HCl (pH < 2)																		
AD33-170 ml, Amber Unpreserved (MVA) (24)																		
AD161-1 500 ml, Amber HClO4 (pH < 2)																		
AD161-1 500 ml, Amber HClO4 (pH < 2)																		
AD161-1 500 ml, Amber (pH < 1) (MVA)																		
AD161-1 500 ml, VOA HCl (MVA)																		
AD161-1 500 ml, VOA HClO4 (MVA)																		
AD161-1 500 ml, VOA HCl (MVA)																		
AD161-1 500 ml, VOA HClO4 (MVA)																		
AD161-1 500 ml, VOA HClO4 (MVA)																		
AD161-1 500 ml, VOA HClO4 (MVA)																		
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AD161-1 500 ml, VOA HClO4 (MVA)																		
AD161-1 500 ml, VOA HClO4 (MVA)																		

pH Adjustment Log for Preserved Samples

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

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina Department of Certification. Office for Out of Field, water or preservative, out of range, incorrect containers.



Form 1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a legal document. All required fields must be completed accurately.

Page: 1 of 1

Section 1: Project Information Project Name: _____ Project Number: _____ Project Location: _____ Project Start Date: _____ Project End Date: _____		Section 2: Sample Information Sample Name: _____ Sample Number: _____ Sample Date: _____	
--	--	--	--

NO.	SAMPLE ID	WATER CODE (See note below)	SAMPLE TYPE (See-GRAM C-COM)	COLLECTED		MOISTURE TEMP AT COLLECTION	PRESERVED							ANALYSIS TEST	ANALYST			
				START	END		1	2	3	4	5	6	7			8		
1	GRAND STAIR EMBANK		SOIL	TIME	DATE	TIME												
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Section 3: Collection and Preservation Collected by: _____ Date: _____ Preserved by: _____ Date: _____		Section 4: Analysis and Reporting Analyzed by: _____ Date: _____ Reported by: _____ Date: _____	
---	--	--	--

Section 5: Signatures and Dates Project Manager: _____ Date: _____ Analyst: _____ Date: _____		Section 6: Remarks _____ _____	
--	--	---	--



April 12, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Bowen LF Cells 9&10
Pace Project No.: 92527492

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 12, 2021 and March 19, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92527492001	Dup-2	Water	03/12/21 00:00	03/12/21 15:35
92527492002	FB-3	Water	03/12/21 13:42	03/12/21 15:35
92527492003	GWA-39Z	Water	03/12/21 13:07	03/12/21 15:35
92527492004	DUP-1	Water	03/11/21 00:00	03/12/21 15:35
92527492005	FB-2	Water	03/11/21 16:16	03/12/21 15:35
92527492006	GWA-41	Water	03/11/21 10:52	03/12/21 15:35
92527492007	GWA-42	Water	03/11/21 11:54	03/12/21 15:35
92527492008	GWA-43	Water	03/11/21 10:32	03/12/21 15:35
92527492009	GWA-43R	Water	03/11/21 11:24	03/12/21 15:35
92527492010	GWC-44	Water	03/11/21 13:23	03/12/21 15:35
92527492011	GWC-45	Water	03/11/21 15:19	03/12/21 15:35
92527492012	GWC-45R	Water	03/11/21 16:13	03/12/21 15:35
92527492013	GWC-46R	Water	03/11/21 13:27	03/12/21 15:35
92527492014	GWC-47	Water	03/11/21 16:22	03/12/21 15:35
92527492015	GWC-47R	Water	03/11/21 15:32	03/12/21 15:35
92527492016	GWC-48	Water	03/11/21 15:50	03/12/21 15:35
92527492017	FB-1	Water	03/10/21 16:39	03/12/21 15:35
92527492018	GWA-40	Water	03/10/21 16:16	03/12/21 15:35
92527492019	GWA-41R	Water	03/10/21 15:37	03/12/21 15:35
92527492020	GWC-49R	Water	03/15/21 13:50	03/19/21 13:05
92527492021	GWC-49Z	Water	03/15/21 11:54	03/19/21 13:05
92527492022	FB-4	Water	03/15/21 16:28	03/19/21 13:05
92527492023	FB-5	Water	03/16/21 16:22	03/19/21 13:05
92527492024	EB-1	Water	03/16/21 16:19	03/19/21 13:05
92527492025	GWA-39RZ	Water	03/16/21 10:02	03/19/21 13:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92527492001	Dup-2	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492002	FB-3	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492003	GWA-39Z	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492004	DUP-1	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492005	FB-2	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492006	GWA-41	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492007	GWA-42	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492008	GWA-43	EPA 6010D	KH	2
		EPA 6020B	CW1	15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92527492009	GWA-43R	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92527492010	GWC-44	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492011	GWC-45	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92527492012	GWC-45R	EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
92527492013	GWC-46R	EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
92527492014	GWC-47	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
92527492015	GWC-47R	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92527492016	GWC-48	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492017	FB-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492018	GWA-40	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492019	GWA-41R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	2
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492020	GWC-49R	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492021	GWC-49Z	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492022	FB-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92527492023	FB-5	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2

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SAMPLE ANALYTE COUNT

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92527492024	EB-1	EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
92527492025	GWA-39RZ	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	2
		EPA 6020B	KH	15
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492001	Dup-2					
EPA 6010D	Calcium	11.1	mg/L	1.0	03/19/21 19:50	
EPA 6020B	Antimony	0.0028J	mg/L	0.0030	03/22/21 13:13	B
EPA 6020B	Barium	0.015	mg/L	0.0050	03/22/21 13:13	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/22/21 13:13	B
EPA 6020B	Chromium	0.00071J	mg/L	0.0050	03/22/21 13:13	
EPA 6020B	Cobalt	0.00093J	mg/L	0.0050	03/22/21 13:13	
EPA 6020B	Lead	0.00021J	mg/L	0.0010	03/22/21 13:13	
EPA 6020B	Nickel	0.0016J	mg/L	0.0050	03/22/21 13:13	
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	03/22/21 13:13	
SM 2450C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/17/21 17:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/18/21 00:34	
EPA 300.0 Rev 2.1 1993	Sulfate	1.9	mg/L	1.0	03/18/21 00:34	
92527492002	FB-3					
EPA 6010D	Zinc	0.14	mg/L	0.020	03/19/21 19:55	
EPA 6010D	Calcium	0.87J	mg/L	1.0	03/19/21 19:55	
92527492003	GWA-39Z					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	6.39	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.0065J	mg/L	0.020	03/19/21 20:00	
EPA 6010D	Calcium	11.0	mg/L	1.0	03/19/21 20:00	
EPA 6020B	Antimony	0.0039	mg/L	0.0030	03/22/21 13:41	B
EPA 6020B	Barium	0.014	mg/L	0.0050	03/22/21 13:41	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/22/21 13:41	B
EPA 6020B	Chromium	0.00064J	mg/L	0.0050	03/22/21 13:41	
EPA 6020B	Cobalt	0.00079J	mg/L	0.0050	03/22/21 13:41	
EPA 6020B	Lead	0.00020J	mg/L	0.0010	03/22/21 13:41	
EPA 6020B	Nickel	0.0015J	mg/L	0.0050	03/22/21 13:41	
SM 2450C-2011	Total Dissolved Solids	55.0	mg/L	10.0	03/17/21 17:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/18/21 05:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	03/18/21 05:42	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/18/21 05:42	
92527492004	DUP-1					
EPA 6010D	Calcium	31.0	mg/L	1.0	03/19/21 20:04	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	03/22/21 13:47	B
EPA 6020B	Barium	0.0069	mg/L	0.0050	03/22/21 13:47	
EPA 6020B	Boron	0.020J	mg/L	0.040	03/22/21 13:47	B
EPA 6020B	Chromium	0.00098J	mg/L	0.0050	03/22/21 13:47	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	03/22/21 13:47	
SM 2450C-2011	Total Dissolved Solids	115	mg/L	10.0	03/16/21 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/18/21 05:56	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	03/18/21 05:56	
92527492005	FB-2					
EPA 6020B	Antimony	0.00036J	mg/L	0.0030	03/22/21 13:53	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492006	GWA-41					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	6.80	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	25.9	mg/L	1.0	03/19/21 20:14	
EPA 6020B	Antimony	0.00038J	mg/L	0.0030	03/22/21 14:10	B
EPA 6020B	Barium	0.024	mg/L	0.0050	03/22/21 14:10	
EPA 6020B	Boron	0.0075J	mg/L	0.040	03/22/21 14:10	B
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/22/21 14:10	
SM 2450C-2011	Total Dissolved Solids	101	mg/L	10.0	03/16/21 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/18/21 06:23	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	03/18/21 06:23	
92527492007	GWA-42					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	7.53	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.0089J	mg/L	0.020	03/19/21 20:28	
EPA 6010D	Calcium	34.8	mg/L	1.0	03/19/21 20:28	
EPA 6020B	Barium	0.0061	mg/L	0.0050	03/22/21 14:16	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	03/22/21 14:16	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	03/22/21 14:16	
EPA 6020B	Nickel	0.0011J	mg/L	0.0050	03/22/21 14:16	
SM 2450C-2011	Total Dissolved Solids	109	mg/L	10.0	03/16/21 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/18/21 06:37	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/18/21 06:37	
92527492008	GWA-43					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	5.55	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	2.1	mg/L	1.0	03/19/21 20:33	
EPA 6020B	Barium	0.0096	mg/L	0.0050	03/22/21 14:22	
EPA 6020B	Lead	0.000063J	mg/L	0.0010	03/22/21 14:22	
SM 2450C-2011	Total Dissolved Solids	14.0	mg/L	10.0	03/16/21 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/18/21 06:51	
92527492009	GWA-43R					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	7.81	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	31.2	mg/L	1.0	03/19/21 20:38	
EPA 6020B	Antimony	0.00074J	mg/L	0.0030	03/22/21 14:28	B
EPA 6020B	Barium	0.0069	mg/L	0.0050	03/22/21 14:28	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/22/21 14:28	B
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	03/22/21 14:28	
EPA 6020B	Lead	0.00013J	mg/L	0.0010	03/22/21 14:28	
SM 2450C-2011	Total Dissolved Solids	98.0	mg/L	10.0	03/16/21 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/18/21 07:05	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	03/18/21 07:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492010	GWC-44					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	4.21	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.0040J	mg/L	0.020	03/19/21 20:43	
EPA 6010D	Calcium	11.9	mg/L	1.0	03/19/21 20:43	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/22/21 14:33	
EPA 6020B	Beryllium	0.000064J	mg/L	0.00050	03/22/21 14:33	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/22/21 14:33	B
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	03/22/21 14:33	
EPA 6020B	Lead	0.00053J	mg/L	0.0010	03/22/21 14:33	
SM 2450C-2011	Total Dissolved Solids	43.0	mg/L	10.0	03/16/21 15:05	D6
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	03/18/21 07:19	
EPA 300.0 Rev 2.1 1993	Sulfate	35.5	mg/L	1.0	03/18/21 07:19	
92527492011	GWC-45					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	4.68	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	0.93J	mg/L	1.0	03/19/21 20:47	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/22/21 14:39	B
EPA 6020B	Barium	0.0059	mg/L	0.0050	03/22/21 14:39	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/22/21 14:39	
EPA 6020B	Lead	0.00012J	mg/L	0.0010	03/22/21 14:39	
EPA 6020B	Nickel	0.00092J	mg/L	0.0050	03/22/21 14:39	
SM 2450C-2011	Total Dissolved Solids	12.0	mg/L	10.0	03/16/21 15:05	
EPA 300.0 Rev 2.1 1993	Chloride	0.83J	mg/L	1.0	03/18/21 07:33	
92527492012	GWC-45R					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.21	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	43.1	mg/L	1.0	03/19/21 20:52	
EPA 6020B	Barium	0.022	mg/L	0.0050	03/22/21 14:45	
EPA 6020B	Boron	0.0060J	mg/L	0.040	03/22/21 14:45	B
EPA 6020B	Lead	0.000045J	mg/L	0.0010	03/22/21 14:45	
SM 2450C-2011	Total Dissolved Solids	167	mg/L	10.0	03/16/21 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/18/21 08:28	
EPA 300.0 Rev 2.1 1993	Sulfate	4.2	mg/L	1.0	03/18/21 08:28	
92527492013	GWC-46R					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.53	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	45.2	mg/L	1.0	03/19/21 20:57	
EPA 6020B	Barium	0.012	mg/L	0.0050	03/22/21 14:50	
EPA 6020B	Chromium	0.0059	mg/L	0.0050	03/22/21 14:50	
SM 2450C-2011	Total Dissolved Solids	209	mg/L	10.0	03/16/21 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/18/21 09:10	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	03/18/21 09:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492014	GWC-47					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.34	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.047	mg/L	0.020	03/19/21 21:02	
EPA 6010D	Calcium	21.1	mg/L	1.0	03/19/21 21:02	
EPA 6020B	Barium	0.0083	mg/L	0.0050	03/22/21 14:56	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	03/22/21 14:56	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/22/21 14:56	
EPA 6020B	Lead	0.000048J	mg/L	0.0010	03/22/21 14:56	
SM 2450C-2011	Total Dissolved Solids	106	mg/L	10.0	03/16/21 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	03/18/21 09:24	
EPA 300.0 Rev 2.1 1993	Sulfate	4.7	mg/L	1.0	03/18/21 09:24	
92527492015	GWC-47R					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.48	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.028	mg/L	0.020	03/19/21 21:07	
EPA 6010D	Calcium	31.8	mg/L	1.0	03/19/21 21:07	
EPA 6020B	Antimony	0.00038J	mg/L	0.0030	03/22/21 15:02	B
EPA 6020B	Barium	0.0073	mg/L	0.0050	03/22/21 15:02	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	03/22/21 15:02	
SM 2450C-2011	Total Dissolved Solids	143	mg/L	10.0	03/16/21 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/18/21 09:38	
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	03/18/21 09:38	
92527492016	GWC-48					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	4.95	Std. Units		03/22/21 11:59	
EPA 6010D	Zinc	0.0088J	mg/L	0.020	03/19/21 21:11	
EPA 6010D	Calcium	5.9	mg/L	1.0	03/19/21 21:11	
EPA 6020B	Barium	0.038	mg/L	0.0050	03/22/21 15:23	
EPA 6020B	Beryllium	0.00033J	mg/L	0.00050	03/22/21 15:23	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	03/22/21 15:23	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/22/21 15:23	
EPA 6020B	Cobalt	0.0025J	mg/L	0.0050	03/22/21 15:23	
EPA 6020B	Nickel	0.0047J	mg/L	0.0050	03/22/21 15:23	
EPA 7470A	Mercury	0.00020J	mg/L	0.00020	03/18/21 10:43	
SM 2450C-2011	Total Dissolved Solids	40.0	mg/L	10.0	03/16/21 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/18/21 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	15.4	mg/L	1.0	03/18/21 09:52	
92527492017	FB-1					
EPA 6010D	Zinc	0.0094J	mg/L	0.020	03/19/21 21:26	
92527492018	GWA-40					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.30	Std. Units		03/22/21 11:59	

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492018	GWA-40					
EPA 6010D	Calcium	22.8	mg/L	1.0	03/19/21 21:31	
EPA 6020B	Barium	0.0083	mg/L	0.0050	03/22/21 15:34	
EPA 6020B	Chromium	0.00075J	mg/L	0.0050	03/22/21 15:34	
SM 2450C-2011	Total Dissolved Solids	60.0	mg/L	10.0	03/16/21 14:42	
EPA 300.0 Rev 2.1 1993	Chloride	0.97J	mg/L	1.0	03/18/21 11:15	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/18/21 11:15	
92527492019	GWA-41R					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	7.30	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	40.3	mg/L	1.0	03/19/21 21:35	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	03/22/21 15:40	B
EPA 6020B	Barium	0.023	mg/L	0.0050	03/22/21 15:40	
EPA 6020B	Boron	0.0098J	mg/L	0.040	03/22/21 15:40	B
EPA 6020B	Lead	0.00012J	mg/L	0.0010	03/22/21 15:40	
SM 2450C-2011	Total Dissolved Solids	148	mg/L	10.0	03/16/21 14:42	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/19/21 06:48	
EPA 300.0 Rev 2.1 1993	Sulfate	8.4	mg/L	1.0	03/19/21 06:48	
92527492020	GWC-49R					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	8.05	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	24.7	mg/L	1.0	03/29/21 16:45	M1
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	04/02/21 15:54	B
EPA 6020B	Barium	0.012	mg/L	0.0050	04/02/21 15:54	
EPA 6020B	Boron	0.010J	mg/L	0.040	04/02/21 15:54	B
EPA 6020B	Chromium	0.00076J	mg/L	0.0050	04/02/21 15:54	
SM 2450C-2011	Total Dissolved Solids	107	mg/L	10.0	03/22/21 15:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/23/21 10:07	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/23/21 10:07	
92527492021	GWC-49Z					
	Performed by	CUSTOMER			03/22/21 11:59	
	pH	5.31	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	0.69J	mg/L	1.0	03/29/21 17:05	
EPA 6020B	Antimony	0.00086J	mg/L	0.0030	04/02/21 15:59	B
EPA 6020B	Barium	0.0028J	mg/L	0.0050	04/02/21 15:59	
EPA 6020B	Boron	0.0066J	mg/L	0.040	04/02/21 15:59	B
EPA 6020B	Cobalt	0.00056J	mg/L	0.0050	04/02/21 15:59	
EPA 6020B	Lead	0.000046J	mg/L	0.0010	04/02/21 15:59	
EPA 6020B	Nickel	0.0013J	mg/L	0.0050	04/02/21 15:59	
SM 2450C-2011	Total Dissolved Solids	30.0	mg/L	10.0	03/22/21 15:11	
EPA 300.0 Rev 2.1 1993	Chloride	0.98J	mg/L	1.0	03/23/21 10:21	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	03/23/21 10:21	
92527492022	FB-4					
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	04/02/21 16:05	

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SUMMARY OF DETECTION

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92527492025	GWA-39RZ					
	Performed by	CUSTOME			03/22/21 11:59	
		R				
	pH	7.85	Std. Units		03/22/21 11:59	
EPA 6010D	Calcium	32.4	mg/L	1.0	03/29/21 17:34	
EPA 6020B	Antimony	0.00041J	mg/L	0.0030	04/02/21 16:22	B
EPA 6020B	Barium	0.014	mg/L	0.0050	04/02/21 16:22	
EPA 6020B	Chromium	0.00080J	mg/L	0.0050	04/02/21 16:22	
EPA 6020B	Lead	0.00020J	mg/L	0.0010	04/02/21 16:22	
SM 2450C-2011	Total Dissolved Solids	142	mg/L	10.0	03/23/21 08:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	03/24/21 10:47	
EPA 300.0 Rev 2.1 1993	Sulfate	3.5	mg/L	1.0	03/24/21 10:47	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: Dup-2		Lab ID: 92527492001		Collected: 03/12/21 00:00		Received: 03/12/21 15:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 19:50	7440-66-6		
Calcium	11.1	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 19:50	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0028J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 13:13	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 13:13	7440-38-2		
Barium	0.015	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 13:13	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 13:13	7440-41-7		
Boron	0.012J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 13:13	7440-42-8	B	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 13:13	7440-43-9		
Chromium	0.00071J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 13:13	7440-47-3		
Cobalt	0.00093J	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 13:13	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 13:13	7440-50-8		
Lead	0.00021J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 13:13	7439-92-1		
Nickel	0.0016J	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 13:13	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 13:13	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 13:13	7440-22-4		
Thallium	0.00015J	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 13:13	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 13:13	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 09:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		03/17/21 17:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	1.2	mg/L	1.0	0.60	1		03/18/21 00:34	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 00:34	16984-48-8		
Sulfate	1.9	mg/L	1.0	0.50	1		03/18/21 00:34	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: FB-3 **Lab ID: 92527492002** Collected: 03/12/21 13:42 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.14	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 19:55	7440-66-6	
Calcium	0.87J	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 19:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 13:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 13:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 13:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 13:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 13:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 13:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 13:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 13:18	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 13:18	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 13:18	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 13:18	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 13:18	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 13:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 13:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 13:18	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/17/21 17:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/18/21 04:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 04:18	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 04:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWA-39Z		Lab ID: 92527492003		Collected: 03/12/21 13:07		Received: 03/12/21 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	6.39	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0065J	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:00	7440-66-6	
Calcium	11.0	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0039	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 13:41	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 13:41	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 13:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 13:41	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 13:41	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 13:41	7440-43-9	
Chromium	0.00064J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 13:41	7440-47-3	
Cobalt	0.00079J	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 13:41	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 13:41	7440-50-8	
Lead	0.00020J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 13:41	7439-92-1	
Nickel	0.0015J	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 13:41	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 13:41	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 13:41	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 13:41	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 13:41	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	55.0	mg/L	10.0	10.0	1		03/17/21 17:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/18/21 05:42	16887-00-6	
Fluoride	0.051J	mg/L	0.10	0.050	1		03/18/21 05:42	16984-48-8	
Sulfate	2.0	mg/L	1.0	0.50	1		03/18/21 05:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: DUP-1		Lab ID: 92527492004		Collected: 03/11/21 00:00	Received: 03/12/21 15:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:04	7440-66-6		
Calcium	31.0	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:04	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0011J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 13:47	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 13:47	7440-38-2		
Barium	0.0069	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 13:47	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 13:47	7440-41-7		
Boron	0.020J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 13:47	7440-42-8	B	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 13:47	7440-43-9		
Chromium	0.00098J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 13:47	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 13:47	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 13:47	7440-50-8		
Lead	0.00016J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 13:47	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 13:47	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 13:47	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 13:47	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 13:47	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 13:47	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:05	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	115	mg/L	10.0	10.0	1		03/16/21 14:43			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	2.7	mg/L	1.0	0.60	1		03/18/21 05:56	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 05:56	16984-48-8		
Sulfate	4.3	mg/L	1.0	0.50	1		03/18/21 05:56	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: FB-2		Lab ID: 92527492005		Collected: 03/11/21 16:16	Received: 03/12/21 15:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:09	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:09	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00036J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 13:53	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 13:53	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 13:53	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 13:53	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 13:53	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 13:53	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 13:53	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 13:53	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 13:53	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 13:53	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 13:53	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 13:53	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 13:53	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 13:53	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 13:53	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:08	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/16/21 14:43			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/18/21 06:10	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 06:10	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 06:10	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWA-41 **Lab ID: 92527492006** Collected: 03/11/21 10:52 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	6.80	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:14	7440-66-6	
Calcium	25.9	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00038J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:10	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:10	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:10	7440-41-7	
Boron	0.0075J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:10	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:10	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:10	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:10	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:10	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:10	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:10	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:10	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	101	mg/L	10.0	10.0	1		03/16/21 14:43		
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		03/18/21 06:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 06:23	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		03/18/21 06:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWA-42	Lab ID: 92527492007	Collected: 03/11/21 11:54	Received: 03/12/21 15:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.53	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0089J	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:28	7440-66-6	
Calcium	34.8	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:16	7440-38-2	
Barium	0.0061	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:16	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:16	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:16	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:16	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:16	7439-92-1	
Nickel	0.0011J	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:16	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:16	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:16	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	109	mg/L	10.0	10.0	1		03/16/21 14:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		03/18/21 06:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 06:37	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/18/21 06:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWA-43 **Lab ID: 92527492008** Collected: 03/11/21 10:32 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	5.55	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:33	7440-66-6	
Calcium	2.1	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:22	7440-38-2	
Barium	0.0096	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:22	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:22	7440-50-8	
Lead	0.000063J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:22	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:22	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:22	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:22	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	14.0	mg/L	10.0	10.0	1		03/16/21 14:43		
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		03/18/21 06:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 06:51	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 06:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWA-43R		Lab ID: 92527492009		Collected: 03/11/21 11:24		Received: 03/12/21 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.81	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:38	7440-66-6	
Calcium	31.2	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00074J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:28	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:28	7440-38-2	
Barium	0.0069	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:28	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:28	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:28	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:28	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:28	7440-50-8	
Lead	0.00013J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:28	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:28	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:28	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:28	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	98.0	mg/L	10.0	10.0	1		03/16/21 14:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/18/21 07:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 07:05	16984-48-8	
Sulfate	4.3	mg/L	1.0	0.50	1		03/18/21 07:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-44 **Lab ID: 92527492010** Collected: 03/11/21 13:23 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	4.21	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0040J	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:43	7440-66-6	
Calcium	11.9	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:43	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:33	7440-38-2	
Barium	0.046	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:33	7440-39-3	
Beryllium	0.000064J	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:33	7440-41-7	
Boron	0.016J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:33	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:33	7440-47-3	
Cobalt	0.0016J	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:33	7440-50-8	
Lead	0.00053J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:33	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:33	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:33	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	43.0	mg/L	10.0	10.0	1		03/16/21 15:05		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.5	mg/L	1.0	0.60	1		03/18/21 07:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 07:19	16984-48-8	
Sulfate	35.5	mg/L	1.0	0.50	1		03/18/21 07:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWC-45		Lab ID: 92527492011		Collected: 03/11/21 15:19		Received: 03/12/21 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	4.68	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:47	7440-66-6	
Calcium	0.93J	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00062J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:39	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:39	7440-38-2	
Barium	0.0059	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:39	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:39	7440-50-8	
Lead	0.00012J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:39	7439-92-1	
Nickel	0.00092J	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:39	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:39	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	12.0	mg/L	10.0	10.0	1		03/16/21 15:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.83J	mg/L	1.0	0.60	1		03/18/21 07:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 07:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 07:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-45R **Lab ID: 92527492012** Collected: 03/11/21 16:13 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.21	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:52	7440-66-6	
Calcium	43.1	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:45	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:45	7440-41-7	
Boron	0.0060J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:45	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:45	7440-50-8	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:45	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:45	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:45	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	167	mg/L	10.0	10.0	1		03/16/21 15:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		03/18/21 08:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 08:28	16984-48-8	
Sulfate	4.2	mg/L	1.0	0.50	1		03/18/21 08:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-46R **Lab ID: 92527492013** Collected: 03/11/21 13:27 Received: 03/12/21 15:35 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.53	Std. Units			1		03/22/21 11:59		

6010D ATL ICP

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

Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 20:57	7440-66-6	
Calcium	45.2	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 20:57	7440-70-2	

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:50	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:50	7440-43-9	
Chromium	0.0059	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:50	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:50	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:50	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:50	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:50	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:50	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:50	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:50	7440-62-2	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:32	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	209	mg/L	10.0	10.0	1		03/16/21 15:06		
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300.0 IC Anions 28 Days

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

Chloride	1.1	mg/L	1.0	0.60	1		03/18/21 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 09:10	16984-48-8	
Sulfate	6.7	mg/L	1.0	0.50	1		03/18/21 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-47 **Lab ID: 92527492014** Collected: 03/11/21 16:22 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.34	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.047	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:02	7440-66-6	
Calcium	21.1	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 14:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 14:56	7440-38-2	
Barium	0.0083	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 14:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 14:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 14:56	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 14:56	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 14:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 14:56	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 14:56	7440-50-8	
Lead	0.000048J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 14:56	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 14:56	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 14:56	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 14:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 14:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 14:56	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:34	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	106	mg/L	10.0	10.0	1		03/16/21 15:06		
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		03/18/21 09:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 09:24	16984-48-8	
Sulfate	4.7	mg/L	1.0	0.50	1		03/18/21 09:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-47R		Lab ID: 92527492015		Collected: 03/11/21 15:32		Received: 03/12/21 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.48	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.028	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:07	7440-66-6	
Calcium	31.8	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00038J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 15:02	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 15:02	7440-38-2	
Barium	0.0073	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 15:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 15:02	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 15:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 15:02	7440-43-9	
Chromium	0.0019J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 15:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 15:02	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 15:02	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 15:02	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 15:02	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 15:02	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 15:02	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 15:02	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 15:02	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	143	mg/L	10.0	10.0	1		03/16/21 15:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		03/18/21 09:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 09:38	16984-48-8	
Sulfate	10.4	mg/L	1.0	0.50	1		03/18/21 09:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Sample: GWC-48 **Lab ID: 92527492016** Collected: 03/11/21 15:50 Received: 03/12/21 15:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	4.95	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	0.0088J	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:11	7440-66-6	
Calcium	5.9	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:11	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 15:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 15:23	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 15:23	7440-39-3	
Beryllium	0.00033J	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 15:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 15:23	7440-42-8	
Cadmium	0.00021J	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 15:23	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 15:23	7440-47-3	
Cobalt	0.0025J	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 15:23	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 15:23	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 15:23	7439-92-1	
Nickel	0.0047J	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 15:23	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 15:23	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 15:23	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 15:23	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 15:23	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00020J	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	40.0	mg/L	10.0	10.0	1		03/16/21 15:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.5	mg/L	1.0	0.60	1		03/18/21 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 09:52	16984-48-8	
Sulfate	15.4	mg/L	1.0	0.50	1		03/18/21 09:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: FB-1		Lab ID: 92527492017		Collected: 03/10/21 16:39		Received: 03/12/21 15:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	0.0094J	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:26	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:26	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 15:29	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 15:29	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 15:29	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 15:29	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 15:29	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 15:29	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 15:29	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 15:29	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 15:29	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 15:29	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 15:29	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 15:29	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 15:29	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 15:29	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 15:29	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:46	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/16/21 14:42			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/18/21 10:20	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 10:20	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/18/21 10:20	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWA-40	Lab ID: 92527492018	Collected: 03/10/21 16:16		Received: 03/12/21 15:35		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.30	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:31	7440-66-6	
Calcium	22.8	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 15:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 15:34	7440-38-2	
Barium	0.0083	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 15:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 15:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 15:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 15:34	7440-43-9	
Chromium	0.00075J	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 15:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 15:34	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 15:34	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 15:34	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 15:34	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 15:34	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 15:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 15:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 15:34	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		03/16/21 14:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.97J	mg/L	1.0	0.60	1		03/18/21 11:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/18/21 11:15	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/18/21 11:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWA-41R	Lab ID: 92527492019	Collected: 03/10/21 15:37	Received: 03/12/21 15:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.30	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/19/21 08:39	03/19/21 21:35	7440-66-6	
Calcium	40.3	mg/L	1.0	0.070	1	03/19/21 08:39	03/19/21 21:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00037J	mg/L	0.0030	0.00028	1	03/19/21 08:56	03/22/21 15:40	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 08:56	03/22/21 15:40	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/19/21 08:56	03/22/21 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 08:56	03/22/21 15:40	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0052	1	03/19/21 08:56	03/22/21 15:40	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 08:56	03/22/21 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 08:56	03/22/21 15:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 08:56	03/22/21 15:40	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/19/21 08:56	03/22/21 15:40	7440-50-8	
Lead	0.00012J	mg/L	0.0010	0.000036	1	03/19/21 08:56	03/22/21 15:40	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/19/21 08:56	03/22/21 15:40	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 08:56	03/22/21 15:40	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/19/21 08:56	03/22/21 15:40	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 08:56	03/22/21 15:40	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/19/21 08:56	03/22/21 15:40	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/17/21 15:00	03/18/21 10:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	148	mg/L	10.0	10.0	1		03/16/21 14:42		
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		03/19/21 06:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/19/21 06:48	16984-48-8	
Sulfate	8.4	mg/L	1.0	0.50	1		03/19/21 06:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWC-49R	Lab ID: 92527492020	Collected: 03/15/21 13:50	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	8.05	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 16:45	7440-66-6	
Calcium	24.7	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 16:45	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 15:54	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 15:54	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 15:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 15:54	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 15:54	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 15:54	7440-43-9	
Chromium	0.00076J	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 15:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 15:54	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 15:54	7440-50-8	
Lead	ND	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 15:54	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 15:54	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 15:54	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 15:54	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 15:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 15:54	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 09:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	107	mg/L	10.0	10.0	1		03/22/21 15:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/23/21 10:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/23/21 10:07	16984-48-8	
Sulfate	2.6	mg/L	1.0	0.50	1		03/23/21 10:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWC-49Z	Lab ID: 92527492021	Collected: 03/15/21 11:54	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	5.31	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 17:05	7440-66-6	
Calcium	0.69J	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 17:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00086J	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 15:59	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 15:59	7440-38-2	
Barium	0.0028J	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 15:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 15:59	7440-41-7	
Boron	0.0066J	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 15:59	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 15:59	7440-47-3	
Cobalt	0.00056J	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 15:59	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 15:59	7440-50-8	
Lead	0.000046J	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 15:59	7439-92-1	
Nickel	0.0013J	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 15:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 15:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 15:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 15:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 15:59	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 09:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	30.0	mg/L	10.0	10.0	1		03/22/21 15:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.98J	mg/L	1.0	0.60	1		03/23/21 10:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/23/21 10:21	16984-48-8	
Sulfate	1.5	mg/L	1.0	0.50	1		03/23/21 10:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: FB-4		Lab ID: 92527492022		Collected: 03/15/21 16:28		Received: 03/19/21 13:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 17:10	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 17:10	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 16:05	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 16:05	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 16:05	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 16:05	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 16:05	7440-42-8		
Cadmium	0.00012J	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 16:05	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 16:05	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 16:05	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 16:05	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 16:05	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 16:05	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 16:05	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 16:05	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 16:05	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 16:05	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 09:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/22/21 15:12			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/23/21 10:34	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/23/21 10:34	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/23/21 10:34	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: FB-5		Lab ID: 92527492023		Collected: 03/16/21 16:22	Received: 03/19/21 13:05	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 17:14	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 17:14	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 16:11	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 16:11	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 16:11	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 16:11	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 16:11	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 16:11	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 16:11	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 16:11	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 16:11	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 16:11	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 16:11	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 16:11	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 16:11	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 16:11	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 16:11	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 09:52	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/21 08:00			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/24/21 09:45	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 09:45	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/24/21 09:45	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: EB-1		Lab ID: 92527492024		Collected: 03/16/21 16:19	Received: 03/19/21 13:05	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 17:29	7440-66-6		
Calcium	ND	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 17:29	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 16:17	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 16:17	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 16:17	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 16:17	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 16:17	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 16:17	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 16:17	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 16:17	7440-48-4		
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 16:17	7440-50-8		
Lead	ND	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 16:17	7439-92-1		
Nickel	ND	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 16:17	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 16:17	7782-49-2		
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 16:17	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 16:17	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 16:17	7440-62-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 09:59	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/21 08:01			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/24/21 10:01	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 10:01	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/24/21 10:01	14808-79-8		

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ANALYTICAL RESULTS

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Sample: GWA-39RZ	Lab ID: 92527492025	Collected: 03/16/21 10:02	Received: 03/19/21 13:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:59		
pH	7.85	Std. Units			1		03/22/21 11:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Zinc	ND	mg/L	0.020	0.0035	1	03/29/21 12:09	03/29/21 17:34	7440-66-6	
Calcium	32.4	mg/L	1.0	0.070	1	03/29/21 12:09	03/29/21 17:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00041J	mg/L	0.0030	0.00028	1	03/27/21 11:00	04/02/21 16:22	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/27/21 11:00	04/02/21 16:22	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/27/21 11:00	04/02/21 16:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/27/21 11:00	04/02/21 16:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/27/21 11:00	04/02/21 16:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/27/21 11:00	04/02/21 16:22	7440-43-9	
Chromium	0.00080J	mg/L	0.0050	0.00055	1	03/27/21 11:00	04/02/21 16:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/27/21 11:00	04/02/21 16:22	7440-48-4	
Copper	ND	mg/L	0.0050	0.0017	1	03/27/21 11:00	04/02/21 16:22	7440-50-8	
Lead	0.00020J	mg/L	0.0010	0.000036	1	03/27/21 11:00	04/02/21 16:22	7439-92-1	
Nickel	ND	mg/L	0.0050	0.00069	1	03/27/21 11:00	04/02/21 16:22	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0016	1	03/27/21 11:00	04/02/21 16:22	7782-49-2	
Silver	ND	mg/L	0.0050	0.00036	1	03/27/21 11:00	04/02/21 16:22	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	03/27/21 11:00	04/02/21 16:22	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0022	1	03/27/21 11:00	04/02/21 16:22	7440-62-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 15:05	03/26/21 10:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	142	mg/L	10.0	10.0	1		03/23/21 08:01		
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		03/24/21 10:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/24/21 10:47	16984-48-8	
Sulfate	3.5	mg/L	1.0	0.50	1		03/24/21 10:47	14808-79-8	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch:	607720	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019		

METHOD BLANK:	3201594	Matrix:	Water
Associated Lab Samples:	92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/19/21 19:11	
Zinc	mg/L	ND	0.020	0.0035	03/19/21 19:11	

LABORATORY CONTROL SAMPLE:	3201595					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Zinc	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3201596			3201597								
Parameter	Units	92526291001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L				19.3	19.0				1	20	M1
Zinc	mg/L				1.0	1.0				3	20	

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

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

QC Batch: 609926 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

METHOD BLANK: 3212247 Matrix: Water
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/29/21 16:35	
Zinc	mg/L	ND	0.020	0.0035	03/29/21 16:35	

LABORATORY CONTROL SAMPLE: 3212248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Zinc	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212249 3212250

Parameter	Units	92527492020		3212250		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	24.7	1	1	25.4	27.1	67	235	75-125	6	20 M1
Zinc	mg/L	ND	1	1	0.96	0.98	96	98	75-125	1	20

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 607727 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019

METHOD BLANK: 3201620 Matrix: Water
 Associated Lab Samples: 92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00058J	0.0030	0.00028	03/22/21 13:01	
Arsenic	mg/L	ND	0.0050	0.00078	03/22/21 13:01	
Barium	mg/L	ND	0.0050	0.00071	03/22/21 13:01	
Beryllium	mg/L	ND	0.00050	0.000046	03/22/21 13:01	
Boron	mg/L	0.0065J	0.040	0.0052	03/22/21 13:01	
Cadmium	mg/L	ND	0.00050	0.00012	03/22/21 13:01	
Chromium	mg/L	ND	0.0050	0.00055	03/22/21 13:01	
Cobalt	mg/L	ND	0.0050	0.00038	03/22/21 13:01	
Copper	mg/L	ND	0.0050	0.0017	03/22/21 13:01	
Lead	mg/L	ND	0.0010	0.000036	03/22/21 13:01	
Nickel	mg/L	ND	0.0050	0.00069	03/22/21 13:01	
Selenium	mg/L	ND	0.0050	0.0016	03/22/21 13:01	
Silver	mg/L	ND	0.0050	0.00036	03/22/21 13:01	
Thallium	mg/L	ND	0.0010	0.00014	03/22/21 13:01	
Vanadium	mg/L	ND	0.010	0.0022	03/22/21 13:01	

LABORATORY CONTROL SAMPLE: 3201621

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	0.093	93	80-120	
Barium	mg/L	0.1	0.090	90	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.093	93	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Copper	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.092	92	80-120	
Nickel	mg/L	0.1	0.093	93	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	
Vanadium	mg/L	0.1	0.096	96	80-120	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Parameter	Units	3201622		3201623		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92527492002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	
Barium	mg/L	ND	0.1	0.1	0.091	0.089	91	89	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	2	20	
Boron	mg/L	ND	1	1	0.96	0.99	95	98	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.094	96	94	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Copper	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	3	20	
Nickel	mg/L	ND	0.1	0.1	0.093	0.092	93	91	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.090	93	90	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 609693 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

METHOD BLANK: 3211404 Matrix: Water
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/29/21 11:36	
Arsenic	mg/L	ND	0.0050	0.00078	03/29/21 11:36	
Barium	mg/L	ND	0.0050	0.00071	03/29/21 11:36	
Beryllium	mg/L	ND	0.00050	0.000046	03/29/21 11:36	
Boron	mg/L	0.0061J	0.040	0.0052	03/29/21 11:36	
Cadmium	mg/L	ND	0.00050	0.00012	03/29/21 11:36	
Chromium	mg/L	ND	0.0050	0.00055	03/29/21 11:36	
Cobalt	mg/L	ND	0.0050	0.00038	03/29/21 11:36	
Copper	mg/L	ND	0.0050	0.0017	03/29/21 11:36	
Lead	mg/L	ND	0.0010	0.000036	03/29/21 11:36	
Nickel	mg/L	ND	0.0050	0.00069	03/29/21 11:36	
Selenium	mg/L	ND	0.0050	0.0016	03/29/21 11:36	
Silver	mg/L	ND	0.0050	0.00036	03/29/21 11:36	
Thallium	mg/L	ND	0.0010	0.00014	03/29/21 11:36	
Vanadium	mg/L	ND	0.010	0.0022	03/29/21 11:36	

LABORATORY CONTROL SAMPLE: 3211405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.092	92	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Copper	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Nickel	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.089	89	80-120	
Silver	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	
Vanadium	mg/L	0.1	0.098	98	80-120	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Parameter	Units	3211748		3211749		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92527268024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	0.00049J	0.1	0.1	0.10	0.098	103	98	75-125	5	20	
Arsenic	mg/L	0.39	0.1	0.1	0.49	0.49	104	100	75-125	1	20	
Barium	mg/L	0.056	0.1	0.1	0.16	0.15	100	96	75-125	2	20	
Beryllium	mg/L	0.000090J	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Boron	mg/L	0.89	1	1	1.8	1.8	96	91	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cobalt	mg/L	0.0029J	0.1	0.1	0.10	0.099	98	96	75-125	2	20	
Copper	mg/L	ND	0.1	0.1	0.097	0.093	97	93	75-125	4	20	
Lead	mg/L	0.00015J	0.1	0.1	0.098	0.092	98	92	75-125	6	20	
Nickel	mg/L	ND	0.1	0.1	0.099	0.096	98	95	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	91	91	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	3	20	
Thallium	mg/L	0.00037J	0.1	0.1	0.099	0.094	99	94	75-125	5	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch:	607309	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019		

METHOD BLANK:	3199454	Matrix:	Water
Associated Lab Samples:	92527492001, 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016, 92527492017, 92527492018, 92527492019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/18/21 09:47	

LABORATORY CONTROL SAMPLE:	3199455					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3199456			3199457								
Parameter	Units	92527492001 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	0.0021	0.0022	85	88	75-125	4	20	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 609304 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

METHOD BLANK: 3209294 Matrix: Water
 Associated Lab Samples: 92527492020, 92527492021, 92527492022, 92527492023, 92527492024, 92527492025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/26/21 09:02	

LABORATORY CONTROL SAMPLE: 3209295

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: 3209296 3209297

Parameter	Units	3209296		3209297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.40 ug/L	0.0025	0.0028	0.0028	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 606867 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492017, 92527492018, 92527492019

METHOD BLANK: 3197209 Matrix: Water
 Associated Lab Samples: 92527492004, 92527492005, 92527492006, 92527492007, 92527492008, 92527492009, 92527492017, 92527492018, 92527492019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/16/21 14:40	

LABORATORY CONTROL SAMPLE: 3197210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	90-111	

SAMPLE DUPLICATE: 3197211

Parameter	Units	92527319007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1300	1520	16	10	D6

SAMPLE DUPLICATE: 3197212

Parameter	Units	92524632030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	333	356	7	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 606868 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016

METHOD BLANK: 3197215 Matrix: Water
 Associated Lab Samples: 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015, 92527492016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/16/21 15:05	

LABORATORY CONTROL SAMPLE: 3197216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	90-111	

SAMPLE DUPLICATE: 3197217

Parameter	Units	92527492010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	52.0	19	10	D6

SAMPLE DUPLICATE: 3197218

Parameter	Units	92527234015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	149	147	1	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

QC Batch: 607316 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492001, 92527492002, 92527492003

METHOD BLANK: 3199480 Matrix: Water
 Associated Lab Samples: 92527492001, 92527492002, 92527492003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/17/21 17:40	

LABORATORY CONTROL SAMPLE: 3199481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3199482

Parameter	Units	92527256010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	279	278	0	10	

SAMPLE DUPLICATE: 3199483

Parameter	Units	92526996006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	255	258	1	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch:	608133	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92527492020, 92527492021, 92527492022

METHOD BLANK: 3203640 Matrix: Water
 Associated Lab Samples: 92527492020, 92527492021, 92527492022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/22/21 15:08	

LABORATORY CONTROL SAMPLE: 3203641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	90-111	

SAMPLE DUPLICATE: 3203642

Parameter	Units	92527261013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	614	640	4	10	

SAMPLE DUPLICATE: 3203644

Parameter	Units	92527234025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11.0	18.0	48	10	D6

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

QC Batch: 608136 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92527492023, 92527492024, 92527492025

METHOD BLANK: 3203650 Matrix: Water
 Associated Lab Samples: 92527492023, 92527492024, 92527492025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/23/21 07:58	

LABORATORY CONTROL SAMPLE: 3203651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	414	104	90-111	

SAMPLE DUPLICATE: 3203652

Parameter	Units	92527612006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	99.0	97.0	2	10	

SAMPLE DUPLICATE: 3203653

Parameter	Units	92528339001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	952	1020	7	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 607170 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: 92527492001

METHOD BLANK: 3198670 Matrix: Water

Associated Lab Samples: 92527492001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/17/21 17:51	
Fluoride	mg/L	ND	0.10	0.050	03/17/21 17:51	
Sulfate	mg/L	ND	1.0	0.50	03/17/21 17:51	

LABORATORY CONTROL SAMPLE: 3198671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198672 3198673

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.4	50	50	59.6	59.8	104	105	90-110	0	10		
Fluoride	mg/L	0.079J	2.5	2.5	2.7	2.7	106	107	90-110	0	10		
Sulfate	mg/L	49.6	50	50	94.1	95.1	89	91	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198674 3198675

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.9	50	50	54.4	53.4	103	101	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	3.0	2.8	118	112	90-110	6	10	M1	
Sulfate	mg/L	1.2	50	50	54.5	53.7	107	105	90-110	1	10		

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

QC Batch: 607174 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: 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008,
 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015,
 92527492016, 92527492017, 92527492018

METHOD BLANK: 3198676 Matrix: Water
 Associated Lab Samples: 92527492002, 92527492003, 92527492004, 92527492005, 92527492006, 92527492007, 92527492008,
 92527492009, 92527492010, 92527492011, 92527492012, 92527492013, 92527492014, 92527492015,
 92527492016, 92527492017, 92527492018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/18/21 03:50	
Fluoride	mg/L	ND	0.10	0.050	03/18/21 03:50	
Sulfate	mg/L	ND	1.0	0.50	03/18/21 03:50	

LABORATORY CONTROL SAMPLE: 3198677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198678 3198679

Parameter	Units	92527492002 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	52.8	51.9	106	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.7	112	109	90-110	3	10	M1
Sulfate	mg/L	ND	50	50	55.0	54.1	110	108	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198680 3198681

Parameter	Units	92527492012 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	4.0	50	50	54.9	57.3	102	107	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	107	90-110	4	10	
Sulfate	mg/L	4.2	50	50	56.9	59.2	105	110	90-110	4	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 607539	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: 92527492019

METHOD BLANK: 3200518 Matrix: Water

Associated Lab Samples: 92527492019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/19/21 03:33	
Fluoride	mg/L	ND	0.10	0.050	03/19/21 03:33	
Sulfate	mg/L	ND	1.0	0.50	03/19/21 03:33	

LABORATORY CONTROL SAMPLE: 3200519

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	2.5	101	90-110	
Sulfate	mg/L	50	52.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200520 3200521

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528108001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.2	50	50	56.5	56.6	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	104	90-110	0	10		
Sulfate	mg/L	1.8	50	50	56.3	56.4	109	109	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200522 3200523

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528108002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	24.3	50	50	52.2	52.0	56	55	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	104	90-110	1	10		
Sulfate	mg/L	1.5	50	50	54.4	54.2	106	105	90-110	0	10		

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 608285 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: 92527492020, 92527492021, 92527492022

METHOD BLANK: 3204508 Matrix: Water
 Associated Lab Samples: 92527492020, 92527492021, 92527492022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/23/21 04:02	
Fluoride	mg/L	ND	0.10	0.050	03/23/21 04:02	
Sulfate	mg/L	ND	1.0	0.50	03/23/21 04:02	

LABORATORY CONTROL SAMPLE: 3204509

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	2.5	100	90-110	
Sulfate	mg/L	50	51.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204510 3204511

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528339002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	53.4	50	50	50	91.2	90.1	75	73	90-110	1	10	M6
Fluoride	mg/L	0.74	2.5	2.5	2.5	3.3	3.2	102	100	90-110	2	10	
Sulfate	mg/L	457	50	50	50	503	503	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204512 3204513

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527612010	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.7	50	50	50	58.1	56.8	107	104	90-110	2	10	
Fluoride	mg/L	0.089J	2.5	2.5	2.5	2.8	2.7	107	104	90-110	2	10	
Sulfate	mg/L	28.3	50	50	50	80.9	79.7	105	103	90-110	2	10	

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QUALITY CONTROL DATA

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

QC Batch: 608452 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: 92527492023, 92527492024, 92527492025

METHOD BLANK: 3204980 Matrix: Water

Associated Lab Samples: 92527492023, 92527492024, 92527492025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/24/21 04:36	
Fluoride	mg/L	ND	0.10	0.050	03/24/21 04:36	
Sulfate	mg/L	ND	1.0	0.50	03/24/21 04:36	

LABORATORY CONTROL SAMPLE: 3204981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204982 3204983

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528809002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	85.7	50	50	50	118	119	65	67	90-110	1	10	M6
Fluoride	mg/L	0.090J	2.5	2.5	2.5	2.6	2.6	100	102	90-110	2	10	
Sulfate	mg/L	609	50	50	50	650	660	82	103	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3204984 3204985

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527492024 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50	48.0	51.4	96	103	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.3	2.4	92	96	90-110	5	10	
Sulfate	mg/L	ND	50	50	50	48.0	51.2	96	102	90-110	7	10	

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QUALIFIERS

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527492003	GWA-39Z				
92527492006	GWA-41				
92527492007	GWA-42				
92527492008	GWA-43				
92527492009	GWA-43R				
92527492010	GWC-44				
92527492011	GWC-45				
92527492012	GWC-45R				
92527492013	GWC-46R				
92527492014	GWC-47				
92527492015	GWC-47R				
92527492016	GWC-48				
92527492018	GWA-40				
92527492019	GWA-41R				
92527492020	GWC-49R				
92527492021	GWC-49Z				
92527492025	GWA-39RZ				
92527492001	Dup-2	EPA 3010A	607720	EPA 6010D	607950
92527492002	FB-3	EPA 3010A	607720	EPA 6010D	607950
92527492003	GWA-39Z	EPA 3010A	607720	EPA 6010D	607950
92527492004	DUP-1	EPA 3010A	607720	EPA 6010D	607950
92527492005	FB-2	EPA 3010A	607720	EPA 6010D	607950
92527492006	GWA-41	EPA 3010A	607720	EPA 6010D	607950
92527492007	GWA-42	EPA 3010A	607720	EPA 6010D	607950
92527492008	GWA-43	EPA 3010A	607720	EPA 6010D	607950
92527492009	GWA-43R	EPA 3010A	607720	EPA 6010D	607950
92527492010	GWC-44	EPA 3010A	607720	EPA 6010D	607950
92527492011	GWC-45	EPA 3010A	607720	EPA 6010D	607950
92527492012	GWC-45R	EPA 3010A	607720	EPA 6010D	607950
92527492013	GWC-46R	EPA 3010A	607720	EPA 6010D	607950
92527492014	GWC-47	EPA 3010A	607720	EPA 6010D	607950
92527492015	GWC-47R	EPA 3010A	607720	EPA 6010D	607950
92527492016	GWC-48	EPA 3010A	607720	EPA 6010D	607950
92527492017	FB-1	EPA 3010A	607720	EPA 6010D	607950
92527492018	GWA-40	EPA 3010A	607720	EPA 6010D	607950
92527492019	GWA-41R	EPA 3010A	607720	EPA 6010D	607950
92527492020	GWC-49R	EPA 3010A	609926	EPA 6010D	610016
92527492021	GWC-49Z	EPA 3010A	609926	EPA 6010D	610016
92527492022	FB-4	EPA 3010A	609926	EPA 6010D	610016
92527492023	FB-5	EPA 3010A	609926	EPA 6010D	610016
92527492024	EB-1	EPA 3010A	609926	EPA 6010D	610016
92527492025	GWA-39RZ	EPA 3010A	609926	EPA 6010D	610016
92527492001	Dup-2	EPA 3005A	607727	EPA 6020B	607956
92527492002	FB-3	EPA 3005A	607727	EPA 6020B	607956
92527492003	GWA-39Z	EPA 3005A	607727	EPA 6020B	607956
92527492004	DUP-1	EPA 3005A	607727	EPA 6020B	607956
92527492005	FB-2	EPA 3005A	607727	EPA 6020B	607956

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bowen LF Cells 9&10
 Pace Project No.: 92527492

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527492006	GWA-41	EPA 3005A	607727	EPA 6020B	607956
92527492007	GWA-42	EPA 3005A	607727	EPA 6020B	607956
92527492008	GWA-43	EPA 3005A	607727	EPA 6020B	607956
92527492009	GWA-43R	EPA 3005A	607727	EPA 6020B	607956
92527492010	GWC-44	EPA 3005A	607727	EPA 6020B	607956
92527492011	GWC-45	EPA 3005A	607727	EPA 6020B	607956
92527492012	GWC-45R	EPA 3005A	607727	EPA 6020B	607956
92527492013	GWC-46R	EPA 3005A	607727	EPA 6020B	607956
92527492014	GWC-47	EPA 3005A	607727	EPA 6020B	607956
92527492015	GWC-47R	EPA 3005A	607727	EPA 6020B	607956
92527492016	GWC-48	EPA 3005A	607727	EPA 6020B	607956
92527492017	FB-1	EPA 3005A	607727	EPA 6020B	607956
92527492018	GWA-40	EPA 3005A	607727	EPA 6020B	607956
92527492019	GWA-41R	EPA 3005A	607727	EPA 6020B	607956
92527492020	GWC-49R	EPA 3005A	609693	EPA 6020B	609800
92527492021	GWC-49Z	EPA 3005A	609693	EPA 6020B	609800
92527492022	FB-4	EPA 3005A	609693	EPA 6020B	609800
92527492023	FB-5	EPA 3005A	609693	EPA 6020B	609800
92527492024	EB-1	EPA 3005A	609693	EPA 6020B	609800
92527492025	GWA-39RZ	EPA 3005A	609693	EPA 6020B	609800
92527492001	Dup-2	EPA 7470A	607309	EPA 7470A	607367
92527492002	FB-3	EPA 7470A	607309	EPA 7470A	607367
92527492003	GWA-39Z	EPA 7470A	607309	EPA 7470A	607367
92527492004	DUP-1	EPA 7470A	607309	EPA 7470A	607367
92527492005	FB-2	EPA 7470A	607309	EPA 7470A	607367
92527492006	GWA-41	EPA 7470A	607309	EPA 7470A	607367
92527492007	GWA-42	EPA 7470A	607309	EPA 7470A	607367
92527492008	GWA-43	EPA 7470A	607309	EPA 7470A	607367
92527492009	GWA-43R	EPA 7470A	607309	EPA 7470A	607367
92527492010	GWC-44	EPA 7470A	607309	EPA 7470A	607367
92527492011	GWC-45	EPA 7470A	607309	EPA 7470A	607367
92527492012	GWC-45R	EPA 7470A	607309	EPA 7470A	607367
92527492013	GWC-46R	EPA 7470A	607309	EPA 7470A	607367
92527492014	GWC-47	EPA 7470A	607309	EPA 7470A	607367
92527492015	GWC-47R	EPA 7470A	607309	EPA 7470A	607367
92527492016	GWC-48	EPA 7470A	607309	EPA 7470A	607367
92527492017	FB-1	EPA 7470A	607309	EPA 7470A	607367
92527492018	GWA-40	EPA 7470A	607309	EPA 7470A	607367
92527492019	GWA-41R	EPA 7470A	607309	EPA 7470A	607367
92527492020	GWC-49R	EPA 7470A	609304	EPA 7470A	609353
92527492021	GWC-49Z	EPA 7470A	609304	EPA 7470A	609353
92527492022	FB-4	EPA 7470A	609304	EPA 7470A	609353
92527492023	FB-5	EPA 7470A	609304	EPA 7470A	609353
92527492024	EB-1	EPA 7470A	609304	EPA 7470A	609353
92527492025	GWA-39RZ	EPA 7470A	609304	EPA 7470A	609353
92527492001	Dup-2	SM 2450C-2011	607316		
92527492002	FB-3	SM 2450C-2011	607316		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bowen LF Cells 9&10

Pace Project No.: 92527492

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527492003	GWA-39Z	SM 2450C-2011	607316		
92527492004	DUP-1	SM 2450C-2011	606867		
92527492005	FB-2	SM 2450C-2011	606867		
92527492006	GWA-41	SM 2450C-2011	606867		
92527492007	GWA-42	SM 2450C-2011	606867		
92527492008	GWA-43	SM 2450C-2011	606867		
92527492009	GWA-43R	SM 2450C-2011	606867		
92527492010	GWC-44	SM 2450C-2011	606868		
92527492011	GWC-45	SM 2450C-2011	606868		
92527492012	GWC-45R	SM 2450C-2011	606868		
92527492013	GWC-46R	SM 2450C-2011	606868		
92527492014	GWC-47	SM 2450C-2011	606868		
92527492015	GWC-47R	SM 2450C-2011	606868		
92527492016	GWC-48	SM 2450C-2011	606868		
92527492017	FB-1	SM 2450C-2011	606867		
92527492018	GWA-40	SM 2450C-2011	606867		
92527492019	GWA-41R	SM 2450C-2011	606867		
92527492020	GWC-49R	SM 2450C-2011	608133		
92527492021	GWC-49Z	SM 2450C-2011	608133		
92527492022	FB-4	SM 2450C-2011	608133		
92527492023	FB-5	SM 2450C-2011	608136		
92527492024	EB-1	SM 2450C-2011	608136		
92527492025	GWA-39RZ	SM 2450C-2011	608136		
92527492001	Dup-2	EPA 300.0 Rev 2.1 1993	607170		
92527492002	FB-3	EPA 300.0 Rev 2.1 1993	607174		
92527492003	GWA-39Z	EPA 300.0 Rev 2.1 1993	607174		
92527492004	DUP-1	EPA 300.0 Rev 2.1 1993	607174		
92527492005	FB-2	EPA 300.0 Rev 2.1 1993	607174		
92527492006	GWA-41	EPA 300.0 Rev 2.1 1993	607174		
92527492007	GWA-42	EPA 300.0 Rev 2.1 1993	607174		
92527492008	GWA-43	EPA 300.0 Rev 2.1 1993	607174		
92527492009	GWA-43R	EPA 300.0 Rev 2.1 1993	607174		
92527492010	GWC-44	EPA 300.0 Rev 2.1 1993	607174		
92527492011	GWC-45	EPA 300.0 Rev 2.1 1993	607174		
92527492012	GWC-45R	EPA 300.0 Rev 2.1 1993	607174		
92527492013	GWC-46R	EPA 300.0 Rev 2.1 1993	607174		
92527492014	GWC-47	EPA 300.0 Rev 2.1 1993	607174		
92527492015	GWC-47R	EPA 300.0 Rev 2.1 1993	607174		
92527492016	GWC-48	EPA 300.0 Rev 2.1 1993	607174		
92527492017	FB-1	EPA 300.0 Rev 2.1 1993	607174		
92527492018	GWA-40	EPA 300.0 Rev 2.1 1993	607174		
92527492019	GWA-41R	EPA 300.0 Rev 2.1 1993	607539		
92527492020	GWC-49R	EPA 300.0 Rev 2.1 1993	608285		
92527492021	GWC-49Z	EPA 300.0 Rev 2.1 1993	608285		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bowen LF Cells 9&10
Pace Project No.: 92527492

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527492022	FB-4	EPA 300.0 Rev 2.1 1993	608285		
92527492023	FB-5	EPA 300.0 Rev 2.1 1993	608452		
92527492024	EB-1	EPA 300.0 Rev 2.1 1993	608452		
92527492025	GWA-39RZ	EPA 300.0 Rev 2.1 1993	608452		

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Laboratory receiving kit/lot/kit.

Aurora Eden Greenway Montgomery Raleigh Mechanicsville Ashland Kennesaw



Client Name: C. A. Power
 Site: Eden 100 100 100
 Commercial Home Office Other

Project # **WO# : 92527492**



Locality Test Present? Yes No Not known? Yes No

Collect all environmental containers? Yes

Packing Material: Bubble wrap Bubble bags Paper Straw

Sealing all Environmental Containers?
 Yes No N/A

Thermometer: # 1000 # 1001 # 1002 # 1003

Cooler Temp: 4.0 4.0 4.0
 Operation #/Date: 418 10/20/00

Temp. checked by above training to 4°C?
 No (if no, list name, number of kit, and any problems seen.)

Cooler Temp Connected (C)?
 USDA Registered (Y/N)? Yes, enter number!
 Cool sample overnight in refrigerator (same with the above) (Yes, No, N/A) for a total of
 Yes No

Did sample shipped from a foreign source? (Sample quantity including amount and distribution) Yes No

Order of Sample Types?	Yes	No	Other	1
Sample in 1000 ml / 1000 ml?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample in 500 ml / 500 ml?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Sample in 250 ml / 250 ml?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Sample in 100 ml / 100 ml?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Sample in 50 ml / 50 ml?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Sample in 25 ml / 25 ml?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Sample in 10 ml / 10 ml?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Sample in 5 ml / 5 ml?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Sample in 1 ml / 1 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9
Sample in 0.5 ml / 0.5 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Sample in 0.2 ml / 0.2 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Sample in 0.1 ml / 0.1 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Sample in 0.05 ml / 0.05 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13
Sample in 0.02 ml / 0.02 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14
Sample in 0.01 ml / 0.01 ml?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15

COMMON USE ONLY (DO NOT PRINT) Total Data Required? Yes No

CLIENT INFORMATION/INSTRUCTION Use of applicable company

Revised/Corrected Date/Time

Project Manager (SOP) Review Date

Project Manager (SOP) Review Date



Customer Name
 Sample Container, Label and Type (N/A)
 Doc. Number No.
 P-049-05-010-Rev01

Project #
 Project Name
 Project Location

WOB : 92527492

PH: 3231

Due Date: 03/28/23

Client: GA-GA Power

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

Exception: VOA column for dechlorination only with DOCLG

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

Sample	Initial pH	Final pH	Dechlorination	DOCLG	Notes
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					

pH Adjustment Log for Preserved Samples

Sample #	Type of Preservation	pH - before	Quantity of acid added	Final pH after adjustment	Amount of Preservative added	Lot #

NOTE: When using this log for recording pH and DOCLG for samples, please refer to the DOCLG section of the work order for the specific DOCLG procedure to follow. Do not fill out this log for samples that are not being preserved.



Document Name
 Sample Collection upon Receipt (SCUR)
 Document No.
 1004921.0 (Rev 01)

Revised Version October 18, 2002

Page 2 of 2

Issued By: JTB
 Approved By: JTB

*Check mark top half of box if pH and/or detection method verified and within the acceptance range for presentation samples.

Exception: GCA, Coliform, TSS, D, and Uninc. PM10015 \leq 4141-190% \pm 4

*Bottom half of box is to box number of bottles

Project # **WQA: 92527492**

By: JTB

Due Date: 03/28/03

Client: GCA - Powder

Sample ID	Time of Presentation	pH (pH Range)	Detection Method	Time presented (in JTB) (min)	Amount of Injection (in mL)	Total

pH Adjustment Log for Prepared Samples

Sample ID	Time of Presentation	pH (pH Range)	Detection Method	Time presented (in JTB) (min)	Amount of Injection (in mL)	Total

Note: When an initial pH adjustment is required, the pH should be adjusted to a range of 7.0-8.0 prior to presentation. A final pH adjustment should be made to the final sample volume after completion of the presentation.

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

Page: 1 of 1

Handwritten: 10/27/11

Client: *Will Amber See Booth*

Requester: *Kevin Strickland*

Date: *10/27/11*

Time: *1:53 PM*

Item	Description	Quantity	Collection		Container	Preservation		Analysis	Remarks
			Room	Temp		Method	Time		
1	Sample 1	1							
2	Sample 2	1							
3	Sample 3	1							
4	Sample 4	1							
5	Sample 5	1							
6	Sample 6	1							
7	Sample 7	1							
8	Sample 8	1							
9	Sample 9	1							
10	Sample 10	1							
11	Sample 11	1							
12	Sample 12	1							
13	Sample 13	1							
14	Sample 14	1							
15	Sample 15	1							
16	Sample 16	1							
17	Sample 17	1							
18	Sample 18	1							
19	Sample 19	1							
20	Sample 20	1							
21	Sample 21	1							
22	Sample 22	1							
23	Sample 23	1							
24	Sample 24	1							
25	Sample 25	1							
26	Sample 26	1							
27	Sample 27	1							
28	Sample 28	1							
29	Sample 29	1							
30	Sample 30	1							
31	Sample 31	1							
32	Sample 32	1							
33	Sample 33	1							
34	Sample 34	1							
35	Sample 35	1							
36	Sample 36	1							
37	Sample 37	1							
38	Sample 38	1							
39	Sample 39	1							
40	Sample 40	1							
41	Sample 41	1							
42	Sample 42	1							
43	Sample 43	1							
44	Sample 44	1							
45	Sample 45	1							
46	Sample 46	1							
47	Sample 47	1							
48	Sample 48	1							
49	Sample 49	1							
50	Sample 50	1							
51	Sample 51	1							
52	Sample 52	1							
53	Sample 53	1							
54	Sample 54	1							
55	Sample 55	1							
56	Sample 56	1							
57	Sample 57	1							
58	Sample 58	1							
59	Sample 59	1							
60	Sample 60	1							
61	Sample 61	1							
62	Sample 62	1							
63	Sample 63	1							
64	Sample 64	1							
65	Sample 65	1							
66	Sample 66	1							
67	Sample 67	1							
68	Sample 68	1							
69	Sample 69	1							
70	Sample 70	1							
71	Sample 71	1							
72	Sample 72	1							
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74	Sample 74	1							
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82	Sample 82	1							
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84	Sample 84	1							
85	Sample 85	1							
86	Sample 86	1							
87	Sample 87	1							
88	Sample 88	1							
89	Sample 89	1							
90	Sample 90	1							
91	Sample 91	1							
92	Sample 92	1							
93	Sample 93	1							
94	Sample 94	1							
95	Sample 95	1							
96	Sample 96	1							
97	Sample 97	1							
98	Sample 98	1							
99	Sample 99	1							
100	Sample 100	1							

Approved
Date: _____

CHAIN OF CUSTODY / Analytical Request Document
The Chain of Custody is a USCA (2002) RIGHT. All records held must be completed accurately.

Section 1: Analytical Request Information
Request Number: _____
Request Date: _____
Request Time: _____
Request Location: _____

Section 2: Sample Information
Sample ID: _____
Sample Description: _____
Sample Quantity: _____
Sample Container: _____
Sample Date: _____
Sample Time: _____

Sample ID	Sample Description	Sample Quantity	Sample Container	Sample Date	Sample Time	Sample Location	Analysis Method		Analysis Date	Analysis Time	Analysis Location	Analysis Notes
							Method	Instrument				
01010	Sample 1	100	100 mL	01/10/20	10:00	Lab 1	GC/MS	GC/MS	01/10/20	10:00	Lab 1	GC/MS
01020	Sample 2	100	100 mL	01/10/20	11:00	Lab 1	GC/MS	GC/MS	01/10/20	11:00	Lab 1	GC/MS
01030	Sample 3	100	100 mL	01/10/20	12:00	Lab 1	GC/MS	GC/MS	01/10/20	12:00	Lab 1	GC/MS
01040	Sample 4	100	100 mL	01/10/20	13:00	Lab 1	GC/MS	GC/MS	01/10/20	13:00	Lab 1	GC/MS
01050	Sample 5	100	100 mL	01/10/20	14:00	Lab 1	GC/MS	GC/MS	01/10/20	14:00	Lab 1	GC/MS
01060	Sample 6	100	100 mL	01/10/20	15:00	Lab 1	GC/MS	GC/MS	01/10/20	15:00	Lab 1	GC/MS
01070	Sample 7	100	100 mL	01/10/20	16:00	Lab 1	GC/MS	GC/MS	01/10/20	16:00	Lab 1	GC/MS
01080	Sample 8	100	100 mL	01/10/20	17:00	Lab 1	GC/MS	GC/MS	01/10/20	17:00	Lab 1	GC/MS
01090	Sample 9	100	100 mL	01/10/20	18:00	Lab 1	GC/MS	GC/MS	01/10/20	18:00	Lab 1	GC/MS
01100	Sample 10	100	100 mL	01/10/20	19:00	Lab 1	GC/MS	GC/MS	01/10/20	19:00	Lab 1	GC/MS

01/10/20

Sample ID	Sample Description	Sample Quantity	Sample Container	Sample Date	Sample Time	Sample Location	Analysis Method	Instrument	Analysis Date	Analysis Time	Analysis Location	Analysis Notes
01110	Sample 11	100	100 mL	01/10/20	20:00	Lab 1	GC/MS	GC/MS	01/10/20	20:00	Lab 1	GC/MS
01120	Sample 12	100	100 mL	01/10/20	21:00	Lab 1	GC/MS	GC/MS	01/10/20	21:00	Lab 1	GC/MS
01130	Sample 13	100	100 mL	01/10/20	22:00	Lab 1	GC/MS	GC/MS	01/10/20	22:00	Lab 1	GC/MS
01140	Sample 14	100	100 mL	01/10/20	23:00	Lab 1	GC/MS	GC/MS	01/10/20	23:00	Lab 1	GC/MS
01150	Sample 15	100	100 mL	01/10/20	00:00	Lab 1	GC/MS	GC/MS	01/10/20	00:00	Lab 1	GC/MS
01160	Sample 16	100	100 mL	01/10/20	01:00	Lab 1	GC/MS	GC/MS	01/10/20	01:00	Lab 1	GC/MS
01170	Sample 17	100	100 mL	01/10/20	02:00	Lab 1	GC/MS	GC/MS	01/10/20	02:00	Lab 1	GC/MS
01180	Sample 18	100	100 mL	01/10/20	03:00	Lab 1	GC/MS	GC/MS	01/10/20	03:00	Lab 1	GC/MS
01190	Sample 19	100	100 mL	01/10/20	04:00	Lab 1	GC/MS	GC/MS	01/10/20	04:00	Lab 1	GC/MS
01200	Sample 20	100	100 mL	01/10/20	05:00	Lab 1	GC/MS	GC/MS	01/10/20	05:00	Lab 1	GC/MS

01/10/20

Sample ID	Sample Description	Sample Quantity	Sample Container	Sample Date	Sample Time	Sample Location	Analysis Method	Instrument	Analysis Date	Analysis Time	Analysis Location	Analysis Notes
01210	Sample 21	100	100 mL	01/10/20	06:00	Lab 1	GC/MS	GC/MS	01/10/20	06:00	Lab 1	GC/MS
01220	Sample 22	100	100 mL	01/10/20	07:00	Lab 1	GC/MS	GC/MS	01/10/20	07:00	Lab 1	GC/MS
01230	Sample 23	100	100 mL	01/10/20	08:00	Lab 1	GC/MS	GC/MS	01/10/20	08:00	Lab 1	GC/MS
01240	Sample 24	100	100 mL	01/10/20	09:00	Lab 1	GC/MS	GC/MS	01/10/20	09:00	Lab 1	GC/MS
01250	Sample 25	100	100 mL	01/10/20	10:00	Lab 1	GC/MS	GC/MS	01/10/20	10:00	Lab 1	GC/MS
01260	Sample 26	100	100 mL	01/10/20	11:00	Lab 1	GC/MS	GC/MS	01/10/20	11:00	Lab 1	GC/MS
01270	Sample 27	100	100 mL	01/10/20	12:00	Lab 1	GC/MS	GC/MS	01/10/20	12:00	Lab 1	GC/MS
01280	Sample 28	100	100 mL	01/10/20	13:00	Lab 1	GC/MS	GC/MS	01/10/20	13:00	Lab 1	GC/MS
01290	Sample 29	100	100 mL	01/10/20	14:00	Lab 1	GC/MS	GC/MS	01/10/20	14:00	Lab 1	GC/MS
01300	Sample 30	100	100 mL	01/10/20	15:00	Lab 1	GC/MS	GC/MS	01/10/20	15:00	Lab 1	GC/MS

Page: 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Department
The Chain-of-Custody is a USCAI Document. All request shall final by completed specimen.

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Form 20

SECTION 1: CHAIN-OF-CUSTODY INFORMATION

SECTION 2: ANALYTICAL REQUEST INFORMATION

SECTION 3: CHAIN-OF-CUSTODY TABLE

Date/Time	Location	Name of Person	Signature	Initials	Collection		Sample ID		Storage		Preservation		Remarks	Signature	Date
					Material	Quantity	Material	Quantity	Material	Quantity	Material	Quantity			

SECTION 4: ANALYTICAL REQUEST INFORMATION

SECTION 5: CHAIN-OF-CUSTODY INFORMATION

SECTION 6: ANALYTICAL REQUEST INFORMATION

SECTION 7: CHAIN-OF-CUSTODY INFORMATION

SECTION 8: ANALYTICAL REQUEST INFORMATION

SECTION 9: CHAIN-OF-CUSTODY INFORMATION

SECTION 10: ANALYTICAL REQUEST INFORMATION

SECTION 11: CHAIN-OF-CUSTODY INFORMATION

SECTION 12: ANALYTICAL REQUEST INFORMATION

SECTION 13: CHAIN-OF-CUSTODY INFORMATION

SECTION 14: ANALYTICAL REQUEST INFORMATION

SECTION 15: CHAIN-OF-CUSTODY INFORMATION

SECTION 16: ANALYTICAL REQUEST INFORMATION

SECTION 17: CHAIN-OF-CUSTODY INFORMATION

SECTION 18: ANALYTICAL REQUEST INFORMATION

SECTION 19: CHAIN-OF-CUSTODY INFORMATION

SECTION 20: ANALYTICAL REQUEST INFORMATION



CHAIN OF CUSTODY / ANALYTICAL REQUEST DOCUMENT
The Original Copy is a Legal Document and should be handled accordingly.

Case No. 17-01075
Sample ID: 1501
Request Date: 3/15/21
Requester: [Redacted]
Analyst: [Redacted]
Lab: [Redacted]

Item	Description	Chain of Custody				Analysis																														
		Received By	Date	Signature	Initials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																
1	SAMPLE ID Case: [Redacted] Date: [Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]																															
2	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]																															
3	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]																															
4	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]																															

Requester: [Redacted]
 Date: 3/15/21
 Signature: [Redacted]
 Title: [Redacted]
 Lab: [Redacted]
 Date Rec'd: 3/15/21
 Signature: [Redacted]
 Title: [Redacted]

Page 1 of 1

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

[Signature]

Section 1: Sample Information
 Section 2: Analytical Information
 Section 3: Chain of Custody

SAMPLE ID	ANALYTES	DATE	TIME	ANALYST	CHAIN OF CUSTODY																
					1	2	3	4	5	6	7	8	9	10	11	12	13				
2018-01-11

[Handwritten Signature]

[Handwritten Signature]

William Leader, Alvin Stephens

DATE: 1/11/18

PH 785



June 16, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN LF CELLS 1 & 2
Pace Project No.: 92541315

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Michelle Barker, WOOD E&I
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Greg Wrenn, WOOD E&I



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92541315001	GWC-11R	Water	05/26/21 09:30	05/27/21 15:38
92541315002	DUP-1	Water	05/26/21 00:00	05/27/21 15:38
92541315003	FB-1	Water	05/26/21 12:53	05/27/21 15:38
92541315004	EB-1	Water	05/26/21 12:58	05/27/21 15:38

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92541315001	GWC-11R	EPA 6020B	CW1	1
92541315002	DUP-1	EPA 6020B	CW1	3
		EPA 300.0 Rev 2.1 1993	CDC	1
92541315003	FB-1	EPA 6020B	CW1	3
		EPA 300.0 Rev 2.1 1993	CDC	1
92541315004	EB-1	EPA 6020B	CW1	3
		EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92541315001	GWC-11R					
	Performed by	CUSTOME R			05/27/21 17:34	
	pH	7.55	Std. Units		05/27/21 17:34	
EPA 6020B	Antimony	0.0037	mg/L	0.0030	06/01/21 18:27	
92541315002	DUP-1					
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	06/01/21 18:39	
EPA 6020B	Barium	0.020	mg/L	0.0050	06/01/21 18:39	
EPA 6020B	Chromium	0.0043J	mg/L	0.0050	06/01/21 18:39	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	05/28/21 22:10	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Sample: GWC-11R		Lab ID: 92541315001		Collected: 05/26/21 09:30	Received: 05/27/21 15:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		05/27/21 17:34		
pH	7.55	Std. Units			1		05/27/21 17:34		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0037	mg/L	0.0030	0.00028	1	06/01/21 10:00	06/01/21 18:27	7440-36-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Sample: DUP-1		Lab ID: 92541315002		Collected: 05/26/21 00:00	Received: 05/27/21 15:38	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0016J	mg/L	0.0030	0.00028	1	06/01/21 10:00	06/01/21 18:39	7440-36-0		
Barium	0.020	mg/L	0.0050	0.00071	1	06/01/21 10:00	06/01/21 18:39	7440-39-3		
Chromium	0.0043J	mg/L	0.0050	0.00055	1	06/01/21 10:00	06/01/21 18:39	7440-47-3		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	1.7	mg/L	1.0	0.50	1		05/28/21 22:10	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Sample: FB-1 **Lab ID: 92541315003** Collected: 05/26/21 12:53 Received: 05/27/21 15:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	06/01/21 10:00	06/01/21 18:44	7440-36-0	
Barium	ND	mg/L	0.0050	0.00071	1	06/01/21 10:00	06/01/21 18:44	7440-39-3	
Chromium	ND	mg/L	0.0050	0.00055	1	06/01/21 10:00	06/01/21 18:44	7440-47-3	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Sulfate	ND	mg/L	1.0	0.50	1		05/28/21 22:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Sample: EB-1 **Lab ID: 92541315004** Collected: 05/26/21 12:58 Received: 05/27/21 15:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	06/01/21 10:00	06/01/21 18:50	7440-36-0	
Barium	ND	mg/L	0.0050	0.00071	1	06/01/21 10:00	06/01/21 18:50	7440-39-3	
Chromium	ND	mg/L	0.0050	0.00055	1	06/01/21 10:00	06/01/21 18:50	7440-47-3	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Sulfate	ND	mg/L	1.0	0.50	1		05/28/21 22:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

QC Batch: 623980 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92541315001, 92541315002, 92541315003, 92541315004

METHOD BLANK: 3281806 Matrix: Water
 Associated Lab Samples: 92541315001, 92541315002, 92541315003, 92541315004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	06/01/21 16:56	
Barium	mg/L	ND	0.0050	0.00071	06/01/21 16:56	
Chromium	mg/L	ND	0.0050	0.00055	06/01/21 16:56	

LABORATORY CONTROL SAMPLE: 3281807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3281808 3281809

Parameter	Units	92541313002		3281809		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Antimony	mg/L		0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Barium	mg/L	0.039	0.1	0.1	0.14	0.14	100	101	75-125	1	20		
Chromium	mg/L		0.1	0.1	0.10	0.11	101	103	75-125	3	20		

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

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 1 & 2
 Pace Project No.: 92541315

QC Batch: 623695 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: 92541315002, 92541315003, 92541315004

METHOD BLANK: 3280616 Matrix: Water
 Associated Lab Samples: 92541315002, 92541315003, 92541315004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	0.50	05/28/21 19:31	

LABORATORY CONTROL SAMPLE: 3280617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3280618 3280619

Parameter	Units	92538822020		3280619		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Sulfate	mg/L	9.5	50	60.0	59.1	101	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3280620 3280621

Parameter	Units	92540176011		3280621		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Sulfate	mg/L	585	50	636	632	101	94	90-110	1	10	

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QUALIFIERS

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 1 & 2

Pace Project No.: 92541315

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92541315001	GWC-11R				
92541315001	GWC-11R	EPA 3005A	623980	EPA 6020B	624090
92541315002	DUP-1	EPA 3005A	623980	EPA 6020B	624090
92541315003	FB-1	EPA 3005A	623980	EPA 6020B	624090
92541315004	EB-1	EPA 3005A	623980	EPA 6020B	624090
92541315002	DUP-1	EPA 300.0 Rev 2.1 1993	623695		
92541315003	FB-1	EPA 300.0 Rev 2.1 1993	623695		
92541315004	EB-1	EPA 300.0 Rev 2.1 1993	623695		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Albany Eden Greenwood Monticello Raleigh Mechanicsville Atlanta Kennelworth

Sample Condition
Use All Areas

Gen. Manager:
[Handwritten Signature]

 Reg. Mgr. QA Mgr. Other: _____

Project #. **WO#: 92541315**



Custodial Point: In On Out No

Availability for use in future periods *[Handwritten Mark]*

Recovery Methods: In-line Backstop None Other

Original Units from? In On Off

Temperature: Room Cold Hot

Crystallizer: Yes No

Temperature above 100°C to 170°C
 Above 100°C only Above 100°C and below 170°C

Group Temp. (Reported) No Yes

MOA Reported No Yes

Other process inputs to be reported to add processability
 (Include unit and points listed) No Yes

Item	In	On	Out	Other
Crust of sample removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample changed within hold time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Short Hold Time Analyzed (20 to 30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Batch Run Account Code Reported	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Partial Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Partial Containers Used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Partial Containers Used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Swaged Anhydrous Sample and Filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Swaged Anhydrous Filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature 104°C to 105°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature 106°C to 107°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature 108°C to 109°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Temperature 110°C to 111°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Final QA Reported In On Off

11430-104

Project Manager:

Date:

Project Manager SCRS Review:

Date:

Project Manager SRM Review:

Date:



Document Name:
 Sample Condition Upon Receipt (SCUR)
 Document No. 1
 I-CAR-CS-033-Rev.07

Document Revised: October 18, 2020
 Page 2 of 3
 Issuing Authority:
 Pace Carolina's Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/RODS (water) DOC, UMG

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

Project #

WO# : 92541315

PH: KLM

Due Date: 06/04/21

CLIENT: GR-GR Power

Event	BP40-125 ml, Plastic Unpreserved (N/A) (C-1)	BP70-125 ml, Plastic Unpreserved (N/A)	BP70-100 ml, Plastic Unpreserved (N/A)	BP70-1 liter Plastic Unpreserved (N/A)	BP40-125 ml, Plastic H2SO4 (pH < 2) (C-1)	BP70-250 ml, Plastic H2O2 (pH < 2)	BP40-125 ml, Plastic 2% Acetate & NaOH (V9)	BP40-125 ml, Plastic NaOH (pH < 12) (C-1)	W020-Wide mouthed Glass jar Unpreserved	AG10-1 liter Amber Unpreserved (N/A) (C-1)	AG10-1 liter Amber (pH < 2)	AG10-750 ml, Amber Unpreserved (N/A) (C-1)	AG10-1 liter Amber H2SO4 (pH < 2)	AG10-250 ml, Amber H2SO4 (pH < 2)	AG10(600ml)-750 ml Amber H2SO4 (N/A)(C-1)	600ml-60 ml, VOA HCl (N/A)	V007-40 ml, VOA H2SO4 (N/A)	V008-40 ml, VOA Ump (N/A)	D007-60 ml, VOA H2PO4 (N/A)	V046 (3 vials per lot)-5015 to (N/A)	V104 (3 vials per lot)-VW104 to (N/A)	SP07-125 ml, Sterile Plastic (N/A - 1st)	SP07-250 ml, Sterile Plastic (N/A - 1st)		BP70-250 ml, Plastic (MSD1004 (S-1-S-1))	AG10-100 ml, Amber Unpreserved vials (N/A)	V009-20 ml, Sterilization vials (N/A)	600ml-40 ml, Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

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

Section A Requested Client Information Client Name: <u>General Trust</u> Address: <u>1000 Westchester Parkway</u> <u>Woodstock, GA 30188</u> Contact Name: <u>[Redacted]</u> Title: <u>Trustee</u> Phone Number: <u>[Redacted]</u>	Section B Requested Project Information Project Name: <u>General Trust</u> Client Name: <u>Wood County</u> Address: <u>[Redacted]</u> Contact Name: <u>[Redacted]</u> Title: <u>[Redacted]</u> Phone Number: <u>[Redacted]</u>	Section C Sample Information Sample Location: <u>[Redacted]</u> Sample Name: <u>[Redacted]</u> Date Collected: <u>[Redacted]</u> Client Name: <u>[Redacted]</u> Contact Name: <u>[Redacted]</u> Title: <u>[Redacted]</u> Phone Number: <u>[Redacted]</u>	Regulatory Agency: <u>[Redacted]</u> Project Location: <u>[Redacted]</u>
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ITEM #	SAMPLE ID (One Document per lot, last 4 of 4) Samples do not need to unique	MATERIAL CODE (See table code in left)	MATERIAL TYPE (See table in column)	COLLECTED			SAMPLE TYPE & COLLECTION	# OF CONTAINERS	PRESERVATION							ANALYSIS TEST	REMARKS (Required if changed)	RECEIVED CHOICE (Y/N)	
				START	TIME	DATE			Unpreserved	Refrigerated	Freeze	NO	NO	NO	NO				NO
									Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N				Y/N
1	010-101	ART 0 010-101 0536	ART 0 010-101				1												
2	020-1	ART 0 020-1	ART 0 020-1				1												
3	030-1	ART 0 030-1 1203	ART 0 030-1 1203				1												
4	040-1	ART 0 040-1 1203	ART 0 040-1 1203				1												
5							1												
6							1												
7							1												
8							1												
9							1												
10							1												
11							1												
12							1												

ADDITIONAL COMMENTS		BILLING NUMBER BY / APPLICATION		DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE COMMENTS
		Millison Leaver / Routine		5/27/21	1538	SP At Piece	5/27/21	1538	
		SP At Piece		5/27/21	1637	SP At Piece	5/27/21	1637	
CUSTODIAN SIGNATURE AND POSITION		PROJECT NAME AT SIGNATURE		SIGNATURE OF CUSTODIAN		DATE SIGNED		TEMP IN C	Received on (Y/N)
[Redacted]		Millison Leaver, Site Birth		[Redacted]		5/22/21			Cleaning (Y/N)
									Cooling (Y/N)
									Cover (Y/N)
									Seals (Y/N)
									Storage (Y/N)



June 15, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN LF CELLS 9 & 10
Pace Project No.: 92541313

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BOWEN LF CELLS 9 & 10
Pace Project No.: 92541313

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92541313001	GWC-46R	Water	05/26/21 12:16	05/27/21 15:38
92541313002	GWC-48	Water	05/26/21 12:01	05/27/21 15:38

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SAMPLE ANALYTE COUNT

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92541313001	GWC-46R	EPA 6020B	CW1	1
92541313002	GWC-48	EPA 6020B	CW1	1
		EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92541313001	GWC-46R					
	Performed by	CUSTOME			05/27/21 17:30	
		R				
	pH	7.39	Std. Units		05/27/21 17:30	
EPA 6020B	Chromium	0.0052	mg/L	0.0050	06/01/21 17:47	
92541313002	GWC-48					
	Performed by	CUSTOME			05/27/21 17:31	
		R				
	pH	4.72	Std. Units		05/27/21 17:31	
EPA 6020B	Barium	0.039	mg/L	0.0050	06/01/21 18:04	
EPA 300.0 Rev 2.1 1993	Sulfate	20.2	mg/L	1.0	05/28/21 21:57	

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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

Sample: GWC-46R **Lab ID: 92541313001** Collected: 05/26/21 12:16 Received: 05/27/21 15:38 Matrix: Water

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

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		05/27/21 17:30		
--------------	-----------------	--	--	--	---	--	----------------	--	--

pH	7.39	Std. Units			1		05/27/21 17:30		
----	-------------	------------	--	--	---	--	----------------	--	--

6020 MET ICPMS

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

Chromium	0.0052	mg/L	0.0050	0.00055	1	06/01/21 10:00	06/01/21 17:47	7440-47-3	
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ANALYTICAL RESULTS

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWC-48 Lab ID: 92541313002 Collected: 05/26/21 12:01 Received: 05/27/21 15:38 Matrix: Water									
Field Data Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		05/27/21 17:31		
pH	4.72	Std. Units			1		05/27/21 17:31		
6020 MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Barium	0.039	mg/L	0.0050	0.00071	1	06/01/21 10:00	06/01/21 18:04	7440-39-3	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Sulfate	20.2	mg/L	1.0	0.50	1		05/28/21 21:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 9 & 10

Pace Project No.: 92541313

QC Batch: 623980	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92541313001, 92541313002

METHOD BLANK: 3281806 Matrix: Water

Associated Lab Samples: 92541313001, 92541313002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.0050	0.00071	06/01/21 16:56	
Chromium	mg/L	ND	0.0050	0.00055	06/01/21 16:56	

LABORATORY CONTROL SAMPLE: 3281807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3281808 3281809

Parameter	Units	92541313002		3281809		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Barium	mg/L	0.039	0.1	0.1	0.14	100	101	75-125	1	20	
Chromium	mg/L		0.1	0.1	0.10	101	103	75-125	3	20	

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

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QUALITY CONTROL DATA

Project: BOWEN LF CELLS 9 & 10
 Pace Project No.: 92541313

QC Batch: 623695 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: 92541313002

METHOD BLANK: 3280616 Matrix: Water
 Associated Lab Samples: 92541313002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	0.50	05/28/21 19:31	

LABORATORY CONTROL SAMPLE: 3280617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3280618 3280619

Parameter	Units	92538822020		3280619		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfate	mg/L	9.5	50	60.0	59.1	101	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3280620 3280621

Parameter	Units	92540176011		3280621		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfate	mg/L	585	50	636	632	101	94	90-110	1	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN LF CELLS 9 & 10
Pace Project No.: 92541313

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN LF CELLS 9 & 10
Pace Project No.: 92541313

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92541313001	GWC-46R				
92541313002	GWC-48				
92541313001	GWC-46R	EPA 3005A	623980	EPA 6020B	624090
92541313002	GWC-48	EPA 3005A	623980	EPA 6020B	624090
92541313002	GWC-48	EPA 300.0 Rev 2.1 1993	623695		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
I-CAR-CS-003-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92541313

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 3/27/21 COC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: 23 Type of Ice: Wet Blue None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) -0.2

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

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (N/A, water sample)

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

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

		Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<22 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-CAR-CS-083-Rev.07

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolina Quality Office

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

Project #

WO# : 92541313

PH: KLH1

Due Date: 06/04/21

CLIENT: GR-GR Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRG/SDS (water) DOC, Lling

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

Row #	Sample ID	Container	1	2	3	4	5	6	7	8	9	10	11	12
	BP10-125 ml, Plastic, Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	BP20-250 ml, Plastic, Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	BP30-500 ml, Plastic, Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	BP100-1 liter, Plastic, Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	BP45-125 ml, Plastic HDPE (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	BP50-250 ml, plastic HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
	BP60-125 ml, Plastic (7% Acetic Acid & NaOH) (pH)		/	/	/	/	/	/	/	/	/	/	/	/
	BP65-125 ml, Plastic NaOH (pH > 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	W600-Wide mouthed Glass jar, Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
	AG10-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	AG100-1 liter Amber (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
	AG200-250 ml, Amber, Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	AG10-1 liter Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
	AG20-250 ml, Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
	AG1000MG-250 ml, Amber (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
	DO50-40 ml, VOA HC (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	VO50-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	VO50-40 ml, VOA Linc (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	DO50-40 ml, VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	VO50 (8 vials per bag) HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	VO50 (3 vials per bag) HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	SP10-125 ml, Sterile Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
	SP20-250 ml, Sterile Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
	BP100-250 ml, Plastic (N/A) (D-1, D-2)		/	/	/	/	/	/	/	/	/	/	/	/
	AG100-100 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	VO50-20 ml, Sterilization vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
	DO50-40 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

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

Section A Analytical Object Information Section B Analytical Facility Information Section C Sample Information Section D Analytical Agency

Customer: Georgia Power	Project Name: Western Jordan	Location: Wood County	Agency Name: Georgia Dept. of Environmental Protection
Address: 5001 Westborough Parkway	City: Wood County	County Name: Wood County	Project Manager: Kevin Henry
Woodstock, GA 30188		Address:	Project Number: 15000000000000000000
Project ID: 15000000000000000000	Account Order #	Site Name:	Sampling Agency: Georgia Dept. of Environmental Protection
Order Number: 15000000000000000000	Order Name: Western JF (Cats 9.810)	Facility Manager: Kevin Henry	Site Location:
Contractor Name: 15000000000000000000	Order Number:	Project Number:	

ITEM #	SAMPLE ID One Chemical per box, 1-2, 3-4, 5-6 Samples are mixed by region	MARKER CODE (see cell code in cell)	SAMPLE TYPE (see cell code in cell)	COLLECTOR		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATION							ANALYSE TEST	ANALYSE METHOD (see)	RESIDUE CHLORINE (PPM)	
				START	END			REFRIG	COOL	FREEZE	IC	NO	NAD2001	METHOD				OTHER
1	15000000000000000000	15000000000000000000	15000000000000000000				1	Unpreserved	REFRIG	FREEZE	IC	NO	NAD2001	METHOD	OTHER	Chromium EPA 8020B		
2	15000000000000000000	15000000000000000000	15000000000000000000				1	Unpreserved	REFRIG	FREEZE	IC	NO	NAD2001	METHOD	OTHER	Barium EPA 8020B		
3	15000000000000000000	15000000000000000000	15000000000000000000				1	Unpreserved	REFRIG	FREEZE	IC	NO	NAD2001	METHOD	OTHER	Sulfate EPA 800		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELEASED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE COMMENTS
	William Leaker / Revenue	5/21/21	15:38	William Leaker / Revenue	5/21/21	15:38	
	William Leaker / Revenue	5/21/21	15:38	William Leaker / Revenue	5/21/21	15:38	

Customer Name and Address	Project Name of Customer	Order Number of Customer
Customer Name and Address	Project Name of Customer	Order Number of Customer

TEMP A-C	Received on	By	Checked	By	Sample	By

DATA QUALITY EVALUATION



Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 1&2 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG Nos: 92528787

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 16 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 March 2021 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
GWA-1	03/16/21	II	GWC-11R	03/19/21	II
GWA-2	03/17/21	II	GWC-12	03/19/21	II
GWA-2R	03/16/21	II	GWC-14Z	03/18/21	II
GWA-3A	03/29/21	II	GWC-15Z	03/18/21	II
GWA-50R	03/17/21	II	GWC-15R	03/18/21	II
GWC-5	03/17/21	II	GWC-13	03/18/21	II
GWC-6	03/17/21	II	GWC-13RZ	03/19/21	II
GWC-6RZ	03/17/21	II	<u>QC Samples</u>		
GWC-7Z	03/17/21	II	FB-1	03/16/21	II
GWA-50	03/17/21	II	FB-2	03/17/21	II
GWA-4RZ	03/16/21	II	FB-3	03/18/21	II
GWC-8Z	03/18/21	II	FB-4	03/19/21	II
GWC-8RR	03/17/21	II	FB-5	03/29/21	II
GWC-9	03/18/21	II	DUP-1	03/16/21	II
GWC-10	03/18/21	II	DUP-2	03/18/21	II
GWC-10R	03/18/21	II	DUP-3	03/19/21	II
GWC-11	03/19/21	II			

These samples were collected from Landfill Cells 1&2 between March 16 and March 29, 2021. Sample DUP-1 is a field duplicate of sample GWA-2R, DUP-2 is a field duplicate of sample GWC-8Z, and DUP-3 is a field duplicate of sample GWC-12. Samples FB-1 through FB-5 are field blanks. No equipment blanks are required for Landfill Cells 1&2 because each of the wells sampled have dedicated systems.

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 and field blank contamination, field duplicate precision, and MS/MSD recoveries.

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 lead and selenium 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 laboratory artifact: **Reason Code: BL**.

Action: The lead results for samples GWC-6, GWC-7Z, and FB-3 and the selenium results for samples GWA-2, GWC-5, GWC-6RZ, and FB-3 were qualified as not detected due to possible method 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 GWA-4RZ, FB-3, GWA-1, GWA-2, GWA-2R, GWC-6, and GWA-3A. The recoveries and RPDs were within QC limits except for the MS and MSD for calcium in sample GWA-4RZ.

Action: No qualification was necessary because the parent sample result was greater than 4 times the spike amount.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

Three field duplicate sample pairs (GWA-2R/DUP-1, GWC-8Z/DUP-2, and GWC-12/DUP-3) were collected with this SDG, and the RPDs were within QC limits except for the antimony result for GWA-2R/DUP-1.

Reason Code: FD

Action: The antimony results for DUP-1 and GWA-2R were qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field blanks. Field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. No equipment blanks are required for LF Cells 1&2 because each of the wells sampled have dedicated systems. One of the field blanks (FB-3) reported cadmium between the MDL and the RL, and another field blank (FB-5) reported chromium between the MDL and the RL. Results less than five times the field blank are considered "not detected" as a possible field artifact. **Reason Code: BF:**

Action: The chromium result for sample GWA-3A was qualified as not detected and flagged "U".
No qualification was necessary for cadmium because it was not detected in the associated samples.*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6020B and SW7470A.

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 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 except for MS/MSD recoveries and field duplicate precision.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

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 LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The batch MS/MSD for anions was performed on samples GWC-13RZ, GWC-15Z, and FB-5. The recoveries and RPDs were within QC limits except for low recoveries for sulfate in sample GWC-13RZ.

Reason Code: M-

Action: The sulfate result for sample GWC-13RZ was qualified as estimated flagged "J".

Field Duplicate Precision

Three field duplicate sample pairs were collected with this SDG, and the RPDs were within QC limits except for chloride in GWC-8Z/DUP-2. **Reason Code: FD**

Action: The chloride result for samples DUP-2 and GWC-8Z were qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field blanks. The field blanks did not contain positive results for anions.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. 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 laboratory 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.

Laboratory Duplicate Precision

The laboratory performed a duplicate analysis on samples GWC-6, GWC-13, GWC-13RZ, and FB-5, and the RPDs were within the QC limits for GWC-6 and GWC-13. **Reason Code: LD**

Action: The TDS results for GWC-6 and GWC-13 were qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field 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. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, 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 23 wells, along with the required QC samples, were sampled and analyzed during the March 2021 event in Landfill Cells 1&2 according to the FSP (Amec Foster Wheeler, 2017). The 23 well locations along with field blank samples were reported in this SDG and were sampled and analyzed as scoped.

The field and analytical completeness were 100%. Therefore, the overall completeness was acceptable.

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: DWK 04/21/21

Checked by/Date: JAH 04/27/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92528787
SAMPLING DATES: March 16 - 19 and March 29, 2021
Plant Bowen Landfill Cells 1 & 2: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
DUP-1	GWA-2R	FD	92528787	300.0	chloride	0.74	J	J	--	mg/L
DUP-1	GWA-2R	FD	92528787	6020B	antimony	0.0031		J	FD	mg/L
DUP-1	GWA-2R	FD	92528787	6020B	chromium	0.00059	J	J	--	mg/L
DUP-1	GWA-2R	FD	92528787	6020B	lead	0.000057	J	J	--	mg/L
GWA-1	GWA-1	N	92528787	300.0	sulfate	0.99	J	J	--	mg/L
GWA-1	GWA-1	N	92528787	6010D	zinc	0.0091	J	J	--	mg/L
GWA-1	GWA-1	N	92528787	6020B	antimony	0.0014	J	J	--	mg/L
GWA-1	GWA-1	N	92528787	6020B	lead	0.000052	J	J	--	mg/L
GWA-2R	GWA-2R	N	92528787	300.0	chloride	0.73	J	J	--	mg/L
GWA-2R	GWA-2R	N	92528787	6020B	antimony	0.005		J	FD	mg/L
GWA-2R	GWA-2R	N	92528787	6020B	boron	0.0061	J	J	--	mg/L
GWA-2R	GWA-2R	N	92528787	6020B	lead	0.00007	J	J	--	mg/L
GWA-2R	GWA-2R	N	92528787	6020B	selenium	0.0021	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	92528787	6020B	antimony	0.00082	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	92528787	6020B	arsenic	0.00098	J	J	--	mg/L
GWA-4RZ	GWA-4RZ	N	92528787	6020B	boron	0.0092	J	J	--	mg/L
GWC-11	GWC-11	N	92528787	6020B	antimony	0.00032	J	J	--	mg/L
GWC-11R	GWC-11R	N	92528787	6020B	arsenic	0.0013	J	J	--	mg/L
GWC-11R	GWC-11R	N	92528787	6020B	copper	0.0018	J	J	--	mg/L
GWC-11R	GWC-11R	N	92528787	6020B	lead	0.00018	J	J	--	mg/L
GWC-12	GWC-12	N	92528787	300.0	chloride	0.79	J	J	--	mg/L
GWC-12	GWC-12	N	92528787	6010D	zinc	0.0076	J	J	--	mg/L
GWC-12	GWC-12	N	92528787	6020B	cadmium	0.00027	J	J	--	mg/L
GWC-12	GWC-12	N	92528787	6020B	cobalt	0.0029	J	J	--	mg/L
GWC-12	GWC-12	N	92528787	6020B	nickel	0.0022	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	92528787	300.0	sulfate	74.2	M1	J	M-	mg/L
GWC-13RZ	GWC-13RZ	N	92528787	6020B	antimony	0.0011	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	92528787	6020B	arsenic	0.00084	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	92528787	6020B	boron	0.014	J	J	--	mg/L
GWC-13RZ	GWC-13RZ	N	92528787	6020B	lead	0.000074	J	J	--	mg/L
DUP-3	GWC-12	FD	92528787	300.0	chloride	0.85	J	J	--	mg/L
DUP-3	GWC-12	FD	92528787	6010D	zinc	0.0093	J	J	--	mg/L
DUP-3	GWC-12	FD	92528787	6020B	cadmium	0.00035	J	J	--	mg/L
DUP-3	GWC-12	FD	92528787	6020B	cobalt	0.003	J	J	--	mg/L
DUP-3	GWC-12	FD	92528787	6020B	nickel	0.0022	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	92528787	300	chloride	1.6		J	FD	mg/L
GWC-8Z	GWC-8Z	N	92528787	6020B	arsenic	0.00082	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	92528787	6020B	beryllium	0.000085	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	92528787	6020B	chromium	0.0015	J	J	--	mg/L
GWC-8Z	GWC-8Z	N	92528787	6020B	lead	0.00011	J	J	--	mg/L
GWC-9	GWC-9	N	92528787	6020B	beryllium	0.00016	J	J	--	mg/L
GWC-9	GWC-9	N	92528787	6020B	lead	0.0001	J	J	--	mg/L
GWC-9	GWC-9	N	92528787	6020B	nickel	0.001	J	J	--	mg/L
GWC-10	GWC-10	N	92528787	6020B	beryllium	0.0001	J	J	--	mg/L
GWC-10	GWC-10	N	92528787	6020B	chromium	0.00068	J	J	--	mg/L
GWC-10	GWC-10	N	92528787	6020B	cobalt	0.001	J	J	--	mg/L
GWC-10	GWC-10	N	92528787	6020B	nickel	0.00094	J	J	--	mg/L

TABLE 1
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SAMPLE DELIVERY GROUP 92528787
SAMPLING DATES: March 16 - 19 and March 29, 2021
Plant Bowen Landfill Cells 1 & 2: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-10R	GWC-10R	N	92528787	300.0	sulfate	0.96	J	J	--	mg/L
GWC-10R	GWC-10R	N	92528787	6020B	chromium	0.002	J	J	--	mg/L
GWC-10R	GWC-10R	N	92528787	6020B	nickel	0.0011	J	J	--	mg/L
GWC-13	GWC-13	N	92528787	2540C	total dissolved solids	82	D6	J	LD	mg/L
GWC-13	GWC-13	N	92528787	6020B	antimony	0.00078	J	J	--	mg/L
GWC-13	GWC-13	N	92528787	6020B	beryllium	0.00007	J	J	--	mg/L
GWC-13	GWC-13	N	92528787	6020B	boron	0.0091	J	J	--	mg/L
GWC-13	GWC-13	N	92528787	6020B	lead	0.00024	J	J	--	mg/L
GWC-13	GWC-13	N	92528787	6020B	selenium	0.0021	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	92528787	6020B	beryllium	0.00012	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	92528787	6020B	chromium	0.0023	J	J	--	mg/L
GWC-14Z	GWC-14Z	N	92528787	6020B	selenium	0.0016	J	J	--	mg/L
GWC-15R	GWC-15R	N	92528787	6020B	antimony	0.00045	J	J	--	mg/L
GWC-15R	GWC-15R	N	92528787	6020B	chromium	0.00089	J	J	--	mg/L
GWC-15R	GWC-15R	N	92528787	6020B	lead	0.00036	J	J	--	mg/L
GWC-15R	GWC-15R	N	92528787	6020B	nickel	0.00079	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	92528787	300.0	chloride	0.67	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	92528787	300.0	sulfate	0.76	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	92528787	6020B	chromium	0.00078	J	J	--	mg/L
GWC-15Z	GWC-15Z	N	92528787	6020B	lead	0.00004	J	J	--	mg/L
DUP-2	GWC-8Z	FD	92528787	300.0	chloride	2.0		J	FD	mg/L
DUP-2	GWC-8Z	FD	92528787	6020B	beryllium	0.000087	J	J	--	mg/L
DUP-2	GWC-8Z	FD	92528787	6020B	chromium	0.0022	J	J	--	mg/L
DUP-2	GWC-8Z	FD	92528787	6020B	lead	0.00011	J	J	--	mg/L
FB-3	Field Blank	FB	92528787	6020B	cadmium	0.00035	J	J	--	mg/L
FB-3	Field Blank	FB	92528787	6020B	lead	0.000038	J B	U*	BL	mg/L
FB-3	Field Blank	FB	92528787	6020B	selenium	0.0032	J B	U*	BL	mg/L
GWA-2	GWA-2	N	92528787	6020B	selenium	0.0045	J B	U*	BL	mg/L
GWC-5	GWC-5	N	92528787	300.0	chloride	0.69	J	J	--	mg/L
GWC-5	GWC-5	N	92528787	6020B	cadmium	0.00013	J	J	--	mg/L
GWC-5	GWC-5	N	92528787	6020B	chromium	0.00069	J	J	--	mg/L
GWC-5	GWC-5	N	92528787	6020B	selenium	0.0019	J B	U*	BL	mg/L
GWC-6	GWC-6	N	92528787	300.0	total dissolved solids	47	D6	J	LD	mg/L
GWC-6	GWC-6	N	92528787	6020B	arsenic	0.0013	J	J	--	mg/L
GWC-6	GWC-6	N	92528787	6020B	chromium	0.0027	J	J	--	mg/L
GWC-6	GWC-6	N	92528787	6020B	lead	0.000074	J B	U*	BL	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
GWC-6RZ	GWC-6RZ	N	92528787	6020B	chromium	0.0021	J	J	--	mg/L
GWC-6RZ	GWC-6RZ	N	92528787	6020B	selenium	0.0038	J B	U*	BL	mg/L
GWC-7Z	GWC-7Z	N	92528787	300.0	chloride	0.79	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	92528787	6020B	antimony	0.00099	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	92528787	6020B	cobalt	0.00045	J	J	--	mg/L
GWC-7Z	GWC-7Z	N	92528787	6020B	lead	0.000049	J B	U*	BL	mg/L
GWC-7Z	GWC-7Z	N	92528787	6020B	thallium	0.00015	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	92528787	300.0	chloride	0.78	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	92528787	300.0	sulfate	0.72	J	J	--	mg/L
GWC-8RR	GWC-8RR	N	92528787	6020B	chromium	0.00079	J	J	--	mg/L
GWA-50	GWA-50	N	92528787	300.0	chloride	1	J	J	--	mg/L
GWA-50	GWA-50	N	92528787	6020B	cadmium	0.00012	J	J	--	mg/L
GWA-50	GWA-50	N	92528787	6020B	copper	0.0019	J	J	--	mg/L
GWA-50	GWA-50	N	92528787	6020B	silver	0.00044	J	J	--	mg/L
GWA-50R	GWA-50R	N	92528787	300.0	chloride	0.81	J	J	--	mg/L
GWA-50R	GWA-50R	N	92528787	300.0	sulfate	0.86	J	J	--	mg/L
GWA-50R	GWA-50R	N	92528787	6020B	copper	0.0024	J	J	--	mg/L
GWA-50R	GWA-50R	N	92528787	6020B	nickel	0.0012	J	J	--	mg/L
GWA-50R	GWA-50R	N	92528787	6020B	silver	0.0026	J	J	--	mg/L
FB-5	Field Blank	FB	92528787	6020B	chromium	0.0027	J	J	--	mg/L
GWA-3A	GWA-3A	N	92528787	300.0	fluoride	0.053	J	J	--	mg/L
GWA-3A	GWA-3A	N	92528787	6020B	arsenic	0.001	J	J	--	mg/L
GWA-3A	GWA-3A	N	92528787	6020B	chromium	0.00062	J	U*	BF	mg/L

Laboratory Qualifiers:

B = Analyte detected in the associated method blank.
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
 D6 = The precision between the sample and the sample duplicate exceeded laboratory control limits.
 M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on LCS recovery

Reason Codes:

BF = Field blank contamination. The result should be considered "not-detected".
 BL = Laboratory blank contamination. The result should be considered "not-detected".
 FD = Field duplicate imprecision.
 LD = Laboratory duplicate imprecision.
 M- = MS and MSD recoveries outside acceptance limits. The result may be biased low.
 -- = 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
 U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: DWK 04/21/21

Checked by/Date: JAH 04/26/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103 ****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 92528787

Reviewer/Date: D. Knaub 04/21/21 **Senior Reviewer/Date:** J. Hartness 04/26/21

<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, 1.4, 1.9°C
<input checked="" type="checkbox"/>			Holding times met (180 days; Hg = 28 days) Coll: 03/16/21-03/19/21, 03/29/21 Prep: metals <u>6010</u> – 03/30/21, 04/02/21 <u>6020</u> - 03/31/21, 04/02/21 <u>Hg</u> – 03/25/21, 03/29/21, 04/15/21 Anal: metals: <u>6010</u> – 03/30/21, 03/31/21, 04/05/21 <u>6020</u> – 03/31/21, 04/01/21, 04/05/21 <u>Hg</u> – 03/26/21, 03/30/21, 04/15/21
<input checked="" type="checkbox"/>			QC Blanks Review <u>Method Blanks:</u> p. 49 MB 3213138 6010 = ND p. 50 MB 3213143 6010 = ND p. 51 MB 3217504 6010 = ND p. 52 MB 3213634 6020 = ND p. 54 MB 3213638 6020 Pb = 0.000046J x 5 = 0.00023 mg/L Se = 0.0017J x 5 = 0.0085 mg/L Assoc. results < 5x flagged "U*" (results < RL become the MDL): Reason Code BL Se - GWA-2, GWC-5, GWC-6RZ Pb - GWC-6, GWC-7C Se and Pb - FB-3 p. 56 MB 3217587 6020 = ND p. 58 MB 3209294 Hg = ND p. 59 MB 3211055 Hg = ND p. 60 MB 3211070 Hg = ND p. 61 MB 3229692 Hg = ND <u>Field Blanks:</u> FB-1 = All ND FB-2 = All ND FB-4 = All ND FB-3 Cd= 0.00035 J x5 = 0.00175 mg/L (Pb and Se flagged U* for method blank) Assoc. results flagged U*: No flags, assoc. results ND FB-5 Cr = 0.0027 J x5 = 0.0135 mg/L Assoc. results flagged U*: Reason Code: BF GWA-3A

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

Laboratory Control Sample (LCS) recovery within limits

(Metals 70-130%, Hg = 80-120%)

- p. 49 LCS 3213139 6010 – all ok
- p. 50 LCS 3213144 6010 – all ok
- p. 51 LCS 3217505 6010 – all ok
- p. 52 LCS 3213635 6020 – all ok
- p. 54 LCS 3213639 6020 – all ok
- p. 56 LCS 3217588 6020 – all ok
- p. 58 LCS 3209295 Hg = 98%
- p. 59 LCS 3211056 Hg = 83%
- p. 60 LCS 3211071 Hg = 95%
- p. 61 LCS 3229693 Hg = 93%

Lab Duplicate - Field Duplicate precision goals met (20%)

	RL	GWA-2R	DUP-1	*Diff/RPD	GWC-8Z	DUP-2	*Diff/RPD	GWC-12	DUP-3	*Diff/RPD
Sb	0.003	0.0050	0.0031	46.9%	ND	ND	-	ND	ND	-
As	0.005	ND	ND	-	0.00082J	ND	-	0.0052	0.0059	12.6%
Ba	0.005	0.013	0.013	0.0%	0.018	0.019	5.4%	0.024	0.024	0.0%
Be	0.0005	ND	ND	-	0.000085J	0.000087J	0.000002	ND	ND	-
B	0.04	0.0061J	ND	-	ND	ND	-	ND	ND	-
Ca	1.0	26.7	29.2	8.9%	9.6	10.2	6.1%	7.8	7.8	0.0%
Cd	0.0005	ND	ND	-	ND	ND	-	0.00027J	0.00035J	0.00008
Cr	0.005	ND	0.00059J	-	0.0015J	0.0022J	0.0007	ND	ND	-
Co	0.005	ND	ND	-	ND	ND	-	0.0029J	0.0030J	0.0001
Cu	0.005	ND	ND	-	ND	ND	-	ND	ND	-
Pb	0.001	0.000070J	0.000057J	0.000013	0.00011J	0.00011J	0.0	ND	ND	-
Ni	0.005	ND	ND	-	ND	ND	-	0.0022J	0.0022J	0.0
Se	0.005	0.0021 J	ND	-	0.0089	ND	-	ND	ND	-
Ag	0.005	ND	ND	-	ND	ND	-	ND	ND	-
Zn	0.02	ND	ND	-	ND	ND	-	0.0076J	0.0093J	0.0017

*for results <RL, diff is <RL; OK

Assoc. Sb results flagged "J": GWA-2R and DUP-1: Reason Code: FD

Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)

- p. 49 GWA-4RZ Ca = -110, 46% RPD = 3 No flag, result > 4x spike
- p. 50 FB-3 (6010) %recs and RPDs ok
- p. 51 not a sample from this SDG
- p. 53 GWA-1 (6020) %recs and RPDs ok
- p. 55 GWA-2 (6020) %recs and RPDs ok
- p. 57 not a sample from this SDG
- p. 58 not a sample from this SDG
- p. 59 GWA-2R Hg = 95, 78% RPD = 19
- p. 60 GWC-6 Hg = 101, 96% RPD = 4
- p. 61 GWA-3A Hg = 91, 89% RPD = 1

Metals and Mercury by SW6020B/SW7470 (cont.)

YES NO NA

COMMENTS

 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)
100% of the results in this SDG were checked

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92528787

Reviewer/Date: D. Knaub 04/21/21 **Senior Reviewer/Date:** J. Hartness 04/26/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 1.4, 1.9°C

 Holding times met (Cl, SO₄, F – 28 days)
Coll: 03/16/21-03/19/21, 03/29/21
Anal: 03/24/21, 03/25/21, 04/04/21

 QC Blanks Review
Method Blanks:
p. 69 MB 3204980 = ND p. 70 MB 3204986 = ND
p. 71 MB 3206837 = ND p. 72 MB 3218300 = ND

Field Blanks:
FB-1, FB-2, FB-3, FB-4, and FB-5 all ND

 Laboratory Control Sample (LCS) recovery within limits (90-110%)
p. 69 LCS 3204981 %rec OK p. 70 LCS 3204987 %rec OK
p. 71 LCS 3206838 %rec OK p. 72 LCS 3218301 %rec OK

 Lab Duplicate - Field Duplicate precision goals met (20%)

	GWA-2R	DUP-1	*Diff/RPD	GWC-8Z	DUP-2	*Diff/RPD	GWC-12	DUP-3	*Diff/RPD
Cl ⁻	0.73J	0.74J	0.01	1.6	2.0	22.2%	0.79J	0.85J	0.06
F ⁻	ND	ND	-	ND	ND	-	ND	ND	-
SO ₄	3.3	3.3	0.0%	1.1	1.0	9.5%	ND	ND	0.0%

Assoc. Cl⁻ results flagged "J": GWC-8Z and DUP-2: Reason Code: FD

 Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)
p. 69 not samples from this SDG
p. 70 GWC-13RZ SO₄ = 86, 85% RPD = 0
Assoc. result flagged "J": Reason Code: FD
GWC-15Z – %rec and RPD ok
p. 71 - not samples from this SDG
p. 72 FB-5 – %rec and RPD ok.

 EDD Data Verification vs. Hardcopy (10% samples for each SDG)
100% of the results in this SDG were checked

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 92528787

Reviewer/Date: D. Knaub 04/21/21 **Senior Reviewer/Date:** J. Hartness 04/26/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 1.4, 1.9°C

 Holding times met (7 days)
Coll: 03/16/21-03/19/21, 03/29/21
Anal: 03/23/21 - 03/26/21, 04/05/21

 QC Blanks Review
Method Blanks:
p. 62 MB 3203650 TDS = ND p. 63 MB 3203677 TDS = ND
p. 64 MB 3204949 TDS = ND p. 65 MB 3206529 TDS = ND
p. 66 MB 3207223 TDS = ND p. 67 MB 3208754 TDS = ND
p. 68 MB 3219167 TDS = ND
Field Blanks:
FB-1, FB-2, FB-3, FB-4, and FB-5 all ND

 Laboratory Control Sample (LCS) recovery within lab limits
p. 62 LCS 3203651 TDS = 104% p. 63 LCS 3203678 TDS = 100%
p. 64 LCS 3204950 TDS = 100% p. 65 LCS 3206530 TDS = 98%
p. 66 LCS 3207224 TDS = 94% p. 67 LCS 3208755 TDS = 96%
p. 68 LCS 3219168 TDS = 102%

 Lab Duplicate - Field Duplicate precision goals met (20%)

	GWA-2R	DUP-1	*Diff/RPD	GWC-8Z	DUP-2	*Diff/RPD	GWC-12	DUP-3	*Diff/RPD
TDS	102	109	6.6%	48	57	17.1%	53	57	7.3%

All OK

Lab Dups:
p. 62 not samples from this SDG
p. 63 not samples from this SDG
p. 64 **GWC-6** RPD = 42% **Results flagged J: Reason Code: LD**
p. 65 **GWC-13** RPD = 15% **Results flagged J: Reason Code: LD**
p. 66 not samples from this SDG
p. 67 GWC-13RZ RPD = 3%
p. 68 FB-5 RPD NC (both ND)

TDS by SM 2540C (cont.)

YES NO NA

COMMENTS

Matrix Spike recoveries and RPDs within limits (if applicable)

No MS/MSD for TDS

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of the results in this SDG were checked



Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 3 & 4 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG No: 92524632

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 16 Groundwater Detection Monitoring Sampling Event 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 February and March 2021. 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, 2020), 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, 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 6010D and 6020B, 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
GWC-20R	03/09/21	II	GWC-18	02/26/21	II
GWC-25R	03/09/21	II	GWC-18R	02/26/21	II
GWA-55	02/25/21	II	GWC-19R	02/26/21	II
GWA-55R	02/25/21	II	GWC-23R	03/10/21	II
GWA-56	02/25/21	II	GWC-24R	03/09/21	II
GWA-36	02/24/21	II	GWA-51RZ	02/25/21	II
GWA-37	02/24/21	II	<u>QA/QC Samples:</u>		
GWA-38	02/24/21	II	EB-1	02/26/21	II
GWA-52	02/24/21	II	FB-1	02/24/21	II
GWC-21R	03/09/21	II	FB-2	02/25/21	II
GWC-22R	03/09/21	II	FB-3	02/26/21	II
GWA-53	02/26/21	II	FB-4	03/09/21	II
GWA-53R	02/26/21	II	FB-5	03/10/21	II
GWA-54	02/25/21	II	Dup-1	02/24/21	II
GWC-16R	03/09/21	II	Dup-2	02/26/21	II
GWC-17R	03/10/21	II	Dup-3	03/09/21	II

The samples reported in this SDG were collected from Landfill Cells 3&4 on February 24 – 26 and March 9 - 10, 2021. Sample Dup-1 is the field duplicate sample of GWA-36, Dup-2 is the field duplicate sample of GWA-53, and Dup-3 is the field duplicate sample of GWC-20R. One field blank per day was collected, and one equipment blank was collected on the equipment used to sample the locations at Landfill Cells 3&4. One additional sample from Landfill Cells 3&4 (GWA-36R) was collected after redevelopment and was reported separately (SDG 92529993).

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 except for MS/MSD recoveries and field 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 samples in this SDG did not contain metals indicating the analytical system was contaminant free during analysis.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSD analyses were performed for metals on samples GWA-38, Dup-1, Dup-2, and Dup-3 from this SDG. The recoveries and RPDs were within QC limits except for MS/MSD recoveries of Ca in sample Dup-3.

Action: No qualification was necessary for calcium because the sample result was more than 4 times greater than the spike concentration.

Field Duplicate Precision

Three field duplicate pairs were submitted 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 equipment blank sample submitted in this SDG did not contain metals, and no results were considered possible field artifacts. One or more of the field blanks contained the following analytes: antimony and boron. Results less than five times the field blank are considered "not detected" as a possible field artifact: **Reason Code: BF.**

Action: The positive antimony and boron results less than five times the field blanks were qualified as not detected due to possible field 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. 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 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 300.0, and each of the Level II components were within QC limits except for 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 within this SDG did not contain anions indicating the analytical system was contaminant free during analysis.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSD analyses were performed samples GWA-54 and FB-4, and the sulfate recovery was above the upper QC limit in the MSD for GWA-54, indicating possible high bias.

Action: No qualification was necessary because the MS recovery and RPD were within QC limits.

Field Duplicate Precision

Three field duplicate pairs were submitted with this SDG and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank sample submitted in this SDG did not contain anions, and no results were considered possible field artifacts. One of the field blanks contained the following analytes: chloride and sulfate. Results less than five times the field blank are considered "not detected" as a possible field artifact: **Reason Code: BF.**

Action: The positive chloride and sulfate results less than five times the field blanks were qualified as not detected due to possible field 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. 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 except for field and laboratory duplicate precision.

Holding Times

The sample analyses were performed within the 7-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Field Duplicate Precision

Three field duplicate pairs were submitted with this SDG and the RPDs were within QC limits except for Dup-1/GWA-36.

Action: The TDS results for GWA-36 and Dup-1 were qualified as estimated and flagged "J".

Laboratory Duplicate Precision

Laboratory duplicates were analyzed for TDS on samples, GWA-55R, GWA-53, GWC-24R, and GWC-23R and the RPDs were within QC limits except for GWC-24R.

Action: The TDS result for GWC-24R was qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank and field 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. Professional judgment was not used to modify flags for results reported in samples presented in this SDG.

Completeness

A total of 23 wells, along with the required QC samples, were sampled and analyzed during the February and March event in Landfill Cells 3&4 according to the FSP (Amec Foster Wheeler, 2017). Each of the 22 well locations reported in this SDG 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, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA-542-R-20-006, November 2020.

Prepared by/Date: DWK 04/05/21

Checked By/Date: JAH 04/06/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92524632
SAMPLING DATES: February 24-26, and March 9-10, 2021
Plant Bowen Landfill Cells 3 & 4: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
FB-1-0321	Field Blank	FB	92524632	6020B	antimony	0.0017	J	J	--	mg/L
FB-1-0321	Field Blank	FB	92524632	6020B	boron	0.011	J	J	--	mg/L
FB-4-0321	Field Blank	FB	92524632	6020B	antimony	0.0017	J	J	--	mg/L
FB-4-0321	Field Blank	FB	92524632	6020B	boron	0.0089	J	J	--	mg/L
GWA-36	GWA-36	N	92524632	300.0	sulfate	0.51	J	J	--	mg/L
GWA-36	GWA-36	N	92524632	SM2450C	total dissolved solids	60		J	FD	mg/L
GWA-36	GWA-36	N	92524632	6020B	antimony	0.00068	J	U*	BF	mg/L
GWA-36	GWA-36	N	92524632	6020B	beryllium	0.00022	J	J	--	mg/L
GWA-36	GWA-36	N	92524632	6020B	boron	0.0062	J	U*	BF	mg/L
GWA-36	GWA-36	N	92524632	6020B	lead	0.000062	J	J	--	mg/L
DUP-1-0221	GWA-36	FD	92524632	300.0	sulfate	0.52	J	J	--	mg/L
DUP-1-0221	GWA-36	FD	92524632	SM2450C	total dissolved solids	76		J	FD	mg/L
DUP-1-0221	GWA-36	FD	92524632	6020B	beryllium	0.00021	J	J	--	mg/L
DUP-1-0221	GWA-36	FD	92524632	6020B	boron	0.012	J	U*	BF	mg/L
DUP-1-0221	GWA-36	FD	92524632	6020B	lead	0.000058	J	J	--	mg/L
GWA-37	GWA-37	N	92524632	300.0	chloride	0.84	J	J	--	mg/L
GWA-37	GWA-37	N	92524632	6020B	calcium	0.71	J	J	--	mg/L
GWA-37	GWA-37	N	92524632	6020B	zinc	0.0038	J	J	--	mg/L
GWA-37	GWA-37	N	92524632	6020B	antimony	0.0012	J	U*	BF	mg/L
GWA-37	GWA-37	N	92524632	6020B	barium	0.0044	J	J	--	mg/L
GWA-37	GWA-37	N	92524632	7470A	mercury	0.000091	J	J	--	mg/L
GWA-38	GWA-38	N	92524632	300.0	sulfate	0.72	J	J	--	mg/L
GWA-38	GWA-38	N	92524632	6020B	chromium	0.0018	J	J	--	mg/L
GWA-38	GWA-38	N	92524632	6020B	cobalt	0.0011	J	J	--	mg/L
GWA-38	GWA-38	N	92524632	6020B	nickel	0.00091	J	J	--	mg/L
GWA-38	GWA-38	N	92524632	7470A	mercury	0.00013	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	92524632	6020B	antimony	0.00061	J	J	--	mg/L
GWA-51RZ	GWA-51RZ	N	92524632	6020B	boron	0.0052	J	J	--	mg/L
GWA-52-0221	GWA-52	N	92524632	6020B	boron	0.0099	J	U*	BF	mg/L
GWA-52-0221	GWA-52	N	92524632	6020B	chromium	0.00097	J	J	--	mg/L
GWA-53-0221	GWA-53	N	92524632	6020B	beryllium	0.000051	J	J	--	mg/L
GWA-53-0221	GWA-53	N	92524632	6020B	chromium	0.0008	J	J	--	mg/L
GWA-53-0221	GWA-53	N	92524632	6020B	lead	0.00012	J	J	--	mg/L
DUP-2-0221	GWA-53	FD	92524632	6020B	beryllium	0.000047	J	J	--	mg/L
DUP-2-0221	GWA-53	FD	92524632	6020B	chromium	0.00075	J	J	--	mg/L
DUP-2-0221	GWA-53	FD	92524632	6020B	lead	0.00011	J	J	--	mg/L
GWA-53R-0221	GWA-53R	N	92524632	6020B	antimony	0.0006	J	J	--	mg/L
GWA-53R-0221	GWA-53	N	92524632	6020B	chromium	0.00071	J	J	--	mg/L
GWA-53R-0221	GWA-53	N	92524632	6020B	lead	0.000064	J	J	--	mg/L
GWA-54-0221	GWA-54	N	92524632	300.0	chloride	0.78	J	J	--	mg/L
GWA-54-0221	GWA-54	N	92524632	6020B	chromium	0.0017	J	J	--	mg/L
GWA-55-0221	GWA-55	N	92524632	6020B	boron	0.0075	J	J	--	mg/L
GWA-55-0221	GWA-55	N	92524632	6020B	chromium	0.00078	J	J	--	mg/L

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SAMPLING DATES: February 24-26, and March 9-10, 2021
Plant Bowen Landfill Cells 3 & 4: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-55-0221	GWA-55	N	92524632	6020B	cobalt	0.0039	J	J	--	mg/L
GWA-55-0221	GWA-55	N	92524632	6020B	lead	0.00009	J	J	--	mg/L
GWA-55-0221	GWA-55	N	92524632	6020B	selenium	0.0018	J	J	--	mg/L
GWA-55R-0221	GWA-55R	N	92524632	6020B	boron	0.0055	J	J	--	mg/L
GWA-55R-0221	GWA-55R	N	92524632	6020B	chromium	0.00083	J	J	--	mg/L
GWA-55R-0221	GWA-55R	N	92524632	6020B	lead	0.000038	J	J	--	mg/L
GWA-56-0221	GWA-56	N	92524632	300.0	fluoride	0.097	J	J	--	mg/L
GWA-56-0221	GWA-56	N	92524632	6020B	boron	0.017	J	J	--	mg/L
GWA-56-0221	GWA-56	N	92524632	6020B	chromium	0.001	J	J	--	mg/L
GWA-56-0221	GWA-56	N	92524632	6020B	lead	0.000045	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	300	chloride	1.5		U*	BF	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	arsenic	0.00094	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	boron	0.028	J	U*	BF	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	chromium	0.0024	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	cobalt	0.00047	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	copper	0.0025	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	lead	0.00011	J	J	--	mg/L
GWC-16R-0321	GWC-16R	N	92524632	6020B	vanadium	0.003	J	J	--	mg/L
GWC-18-0221	GWC-18	N	92524632	6020B	chromium	0.0014	J	J	--	mg/L
GWC-18-0221	GWC-18	N	92524632	6020B	lead	0.000094	J	J	--	mg/L
GWC-18R-0221	GWC-18R	N	92524632	6020B	antimony	0.00059	J	J	--	mg/L
GWC-18R-0221	GWC-18R	N	92524632	6020B	beryllium	0.0002	J	J	--	mg/L
GWC-18R-0221	GWC-18R	N	92524632	6020B	chromium	0.00069	J	J	--	mg/L
GWC-18R-0221	GWC-18R	N	92524632	6020B	lead	0.00025	J	J	--	mg/L
GWC-19R-0221	GWC-19R	N	92524632	6020B	chromium	0.00067	J	J	--	mg/L
GWC-20R-0321	GWC-20R	N	92524632	300	chloride	1.9		U*	BF	mg/L
GWC-20R-0321	GWC-20R	N	92524632	300	sulfate	1.5		U*	BF	mg/L
GWC-20R-0321	GWC-20R	N	92524632	6020B	chromium	0.00094	J	J	--	mg/L
DUP-3-0321	GWC-20R	FD	92524632	300	chloride	2.9		U*	BF	mg/L
DUP-3-0321	GWC-20R	FD	92524632	300	sulfate	1.7		U*	BF	mg/L
DUP-3-0321	GWC-20R	FD	92524632	6020B	boron	0.0098	J	U*	BF	mg/L
DUP-3-0321	GWC-20R	FD	92524632	6020B	chromium	0.0009	J	J	--	mg/L
GWC-21R-0321	GWC-21R	N	92524632	300.0	chloride	5		U*	BF	mg/L
GWC-21R-0321	GWC-21R	N	92524632	6020B	antimony	0.0024	J	J	--	mg/L
GWC-21R-0321	GWC-21R	N	92524632	6020B	arsenic	0.0045	J	J	--	mg/L
GWC-21R-0321	GWC-21R	N	92524632	6020B	boron	0.015	J	U*	BF	mg/L
GWC-21R-0321	GWC-21R	N	92524632	6020B	cobalt	0.0004	J	J	--	mg/L
GWC-21R-0321	GWC-21R	N	92524632	6020B	nickel	0.00075	J	J	--	mg/L
GWC-22R-0321	GWC-22R	N	92524632	300.0	chloride	2.4		U*	BF	mg/L
GWC-22R-0321	GWC-22R	N	92524632	300.0	sulfate	1.4		U*	BF	mg/L
GWC-22R-0321	GWC-22R	N	92524632	6020B	arsenic	0.0018	J	J	--	mg/L
GWC-22R-0321	GWC-22R	N	92524632	6020B	boron	0.0058	J	U*	BF	mg/L
GWC-22R-0321	GWC-22R	N	92524632	6020B	cobalt	0.00066	J	J	--	mg/L

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SAMPLE DELIVERY GROUP 92524632
SAMPLING DATES: February 24-26, and March 9-10, 2021
Plant Bowen Landfill Cells 3 & 4: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-23R-0321	GWC-23R	N	92524632	6020B	chromium	0.00073	J	J	--	mg/L
GWC-24R-0321	GWC-24R	N	92524632	300.0	chloride	2.1		U*	BF	mg/L
GWC-24R-0321	GWC-24R	N	92524632	300.0	sulfate	1.6		U*	BF	mg/L
GWC-24R-0321	GWC-24R	N	92524632	SM2450C	total dissolved solids	158	D6	J	LD	mg/L
GWC-24R-0321	GWC-24R	N	92524632	6020B	zinc	0.0063	J	U*	BF	mg/L
GWC-24R-0321	GWC-24R	N	92524632	6020B	antimony	0.00035	J	J	--	mg/L
GWC-25R-0321	GWC-25R	N	92524632	300.0	chloride	2.3		U*	BF	mg/L
GWC-25R-0321	GWC-25R	N	92524632	300.0	sulfate	1.6		U*	BF	mg/L
GWC-25R-0321	GWC-25R	N	92524632	6020B	chromium	0.00079	J	J	--	mg/L

Laboratory Qualifiers:

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

D6 = The precision between the sample and the sample duplicate exceeded laboratory control limits.

Reason Codes:

BF = Field blank contamination. The result should be considered "not-detected".

FD = Field duplicate imprecision.

LD = Laboratory duplicate imprecision.

-- = 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: DWK 04/05/21

Checked by/Date: JAH 04/06/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 92524632

Reviewer/Date: D. Knaub 03/26/21 **Senior Reviewer/Date:** J. Hartness 04/06/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (HNO₃ to pH<2)
OK, 5.1°C

 Holding times met (180 days; Hg = 28 days)
Coll: 02/24/21-02/26/2, 03/09/21-03/10/21
Prep: metals – 03/02/21, 03/18/21
Hg – 03/04/21, 03/22/21
Anal: metals – 03/03/21, 03/04/21, 03/20/21, 03/18/21
Hg – 03/04/21, 03/05/21, 03/23/21

 QC Blanks Review

Method Blanks:

p. 47 MB 3179510 (6010) Ca and Zn = ND	p. 48 MB 3200680 (6010) Ca and Zn = ND
p. 49 MB 3179727 (6020) = All ND	p. 51 MB 3200852 (6020) = All ND
p. 53 MB 3181291 (7470) Hg = ND	p.54 MB 3183676 (74170) Hg = ND
p. 55 MB 3200899 (7470) Hg = ND	

Field blanks: Results <5x blank flagged U*

FB-1 Sb = 0.0017J x 5 = 0.0085 mg/L	B = 0.011J x 5 = 0.055 mg/L
Flag U*: GWA-36, GWA-37	DUP-1, GWA-36, GWA-52

FB-2 = All ND FB-3 = All ND FB-5 = All ND

FB-4 Sb = 0.0017J x 5 = 0.0085 mg/L	B = 0.0089J x 5 = 0.0445 mg/L
Flag U*: GWC-21R and GWC-24R	DUP-3, GWC-16R, GWC-21R, GWC-22R

Equipment blanks:

EB-1 = All ND

 Laboratory Control Sample (LCS) recovery within limits
(Metals 70-130%, Hg = 80-120%)

p. 47 LCS 3179511 (6010) Ca = 104% Zn = 100%	p. 48 LCS 3200680 (6010) Ca = 105% Zn = 100%
p. 49 LCS 3179728 (6020) – All %rec OK	p. 51 LCS 3200853 (6020) – All %rec OK
p. 53 LCS 3181292 (7470) Hg = 97%	p. 54 LCS 3183677 (7470) Hg = 92%
p. 55 LCS 3200900 (7470) Hg = 105%	

Metals and Mercury by 6020B/7470A (cont.)

YES NO NA COMMENTS

Lab Duplicate - Field Duplicate precision goals met (20%)

For results <RL, diff must be <RL

	<u>GWA-36</u>	<u>Dup-1</u>	<u>RPD or Diff</u>	<u>RL</u>
Sb	0.00068J	<0.00028	0.0004	0.003
Ba	0.016	0.016	0.0	
Be	0.00022J	0.00021J	0.00001	0.0005
B	0.0062J	0.012 J	0.0058	0.04
Cd	0.0012	0.001	18.2	
Pb	0.000062J	0.000058J	0.000004	0.001
Ca	13.6	13.4	1.5	
Zn	0.44	0.44	0.0	

	<u>GWA-53</u>	<u>Dup-2</u>	<u>RPD or Diff</u>	<u>RL</u>
Ba	0.013	0.013	0.0	
Be	0.000051J	0.00047J	0.000004	0.0005
Cr	0.0008J	0.00075J	0.00005	0.005
Pb	0.00012J	0.00011J	0.00001	0.001
Ca	29.6	29.8	0.7	

	<u>GWC-20R</u>	<u>Dup-3</u>	<u>RPD or Diff</u>	<u>RL</u>
Ca	35.8	35.7	3.86	ok
Cr	0.00094J	0.0009J	0.00004	0.005
Ba	0.027	0.028	6.90	ok
B	<0.0052	0.0098J	0.0046	0.04

Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)
6010

- p. 47 GWA-38 Ca = 101, 103% RPD = 1 Zn = 96, 95% RPD = 1
- p. 48 DUP-3 Ca = **328, 296%** *No flag; sample conc >4x spike amount*
Zn = 100, 100% RPD = 0
- p. 50 DUP-1 All %rec and RPDs OK
- p. 52 DUP-3 All %rec and RPDs OK
- p. 53 (7470) - Not a sample from this SDG
- p. 54 DUP-2 Hg = 102, 102% RPD = 0
- p. 55 (7470) - Not a sample from this SDG

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)

100% of the results in this SDG were checked

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92524632

Reviewer/Date: D. Knaub 04/05/21 **Senior Reviewer/Date:** J. Hartness 04/06/21

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>																																													
<input checked="" type="checkbox"/>			<p>Case Narrative and COC Completeness Review OK – Sample Dup-3 re-analyzed for anions due to suspect results – report was revised accordingly.</p>																																													
<input checked="" type="checkbox"/>			<p>Sample Preservation and cooler temperature met (Cool to 6°C) OK, 5.1°C</p>																																													
<input checked="" type="checkbox"/>			<p>Holding times met (Cl, SO₄, F – 28 days) Coll: 02/24/21-02/26/2, 03/09/21-03/10/21 Anal: 03/04/21-03/06/21, 03/17/20, 03/18/21, 04/04/21</p>																																													
<input checked="" type="checkbox"/>			<p>QC Blanks Review <u>Method Blanks:</u> p. 60 MB 3180911 = ND p. 61 MB 3182935 = ND p. 62 MB 3196945 = ND p. 63 MB 3198676 = ND</p> <p><u>Field blanks: Results <5x blank flagged U*</u> FB-1 = All ND FB-2 = All ND FB-3 = All ND FB-5 = All ND</p> <p>FB-4 Cl = 1.8 mg/L x5 = 9.0 mg/L Flag U* GWC-16R, GWC-20R, GWC-21R, GWC-22R, GWC-24R, GWC-25R, Dup-3 SO₄ = 1.4 mg/L x5 = 7.0 mg/L Flag U*: GWC-20R, GWC-22R, GWC-24R, GWC-25R, Dup-3</p> <p><u>Equipment blank:</u> EB-1= All ND</p>																																													
<input checked="" type="checkbox"/>			<p>Laboratory Control Sample (LCS) recovery within limits (90-110%) p. 60 LCS 3180912 - all ok p. 61 LCS 3182936 – all ok p. 62 LCS 3196946 – all ok p. 63 LCS 3198677 – all ok</p>																																													
<input checked="" type="checkbox"/>			<p>Lab Duplicate - Field Duplicate precision goals met (20%)</p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>GWA-36</u></th> <th style="text-align: center;"><u>Dup-1</u></th> <th style="text-align: center;"><u>RPD or diff</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Cl</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>SO₄</td> <td style="text-align: center;">0.51J</td> <td style="text-align: center;">0.52J</td> <td style="text-align: center;">0.01</td> <td style="text-align: right;">RL = 1.0</td> </tr> </tbody> </table> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>GWA-53</u></th> <th style="text-align: center;"><u>Dup-2</u></th> <th style="text-align: center;"><u>RPD</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Cl</td> <td style="text-align: center;">2.3</td> <td style="text-align: center;">2.4</td> <td style="text-align: center;">4.3</td> <td></td> </tr> <tr> <td>SO₄</td> <td style="text-align: center;">1.6</td> <td style="text-align: center;">1.6</td> <td style="text-align: center;">0.0</td> <td></td> </tr> </tbody> </table> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>GWC-20R</u></th> <th style="text-align: center;"><u>Dup-3</u></th> <th style="text-align: center;"><u>RPD</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>Cl</td> <td style="text-align: center;">1.9 U*</td> <td style="text-align: center;">2.9 U*</td> <td style="text-align: center;">NA</td> <td></td> </tr> <tr> <td>SO₄</td> <td style="text-align: center;">1.5</td> <td style="text-align: center;">1.7</td> <td style="text-align: center;">12.5</td> <td></td> </tr> </tbody> </table>		<u>GWA-36</u>	<u>Dup-1</u>	<u>RPD or diff</u>		Cl	2.0	2.0	0		SO ₄	0.51J	0.52J	0.01	RL = 1.0		<u>GWA-53</u>	<u>Dup-2</u>	<u>RPD</u>		Cl	2.3	2.4	4.3		SO ₄	1.6	1.6	0.0			<u>GWC-20R</u>	<u>Dup-3</u>	<u>RPD</u>		Cl	1.9 U*	2.9 U*	NA		SO ₄	1.5	1.7	12.5	
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Anions (chloride, fluoride, sulfate) by EPA 300.0 (cont.)

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
	<input checked="" type="checkbox"/>		<p>Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20) p. 60 GWA-54 – SO₄ = 110, 112% RPD = 1 No flag, MS and RPD within limits p. 61 not samples from this SDG p. 62 FBL-4 - %rec and RPDs ok p. 63 not samples from this SDG</p>
	<input checked="" type="checkbox"/>		<p>EDD Data Verification vs. Hardcopy (10% samples for each SDG) <i>100% of the results in this SDG were checked</i></p>

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2303.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 92524632

Reviewer/Date: D. Knaub 03/26/21 **Senior Reviewer/Date:** J. Hartness 04/06/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 5.1°C

 Holding times met (7 days)
Coll: 02/24/21-02/26/2, 03/09/21-03/10/21
Anal: 03/01/21, 03/02/21 03/13/21, 03/16/21

 QC Blanks Review
Method Blanks:
p. 56 MB 3178563 TDS = ND
p. 57 MB 3179650 TDS = ND
p. 58 MB 3195229 TDS = ND
p. 59 MB 3197209 TDS = ND

Field blanks
FB-1 = ND FB-2 = ND
FB-3 = ND FB-4 = ND
FB-5 = ND

Equipment blanks:
EB-1 = ND

 Laboratory Control Sample (LCS) recovery within lab limits
p. 56 LCS 3178564 TDS = 98%
p. 57 LCS 3179651 TDS = 98%
p. 58 LCS 3195230 TDS = 92%
p. 59 LCS 3197210 TDS = 98%

TDS by SM 2540C (cont)

YES NO NA COMMENTS

Lab Duplicate - Field Duplicate precision goals met (20%)

	<u>GWA-36</u>	<u>Dup-1</u>	<u>RPD</u>
TDS	60	76	23.5%
	<u>GWA-53</u>	<u>Dup-2</u>	<u>RPD</u>
TDS	128	115	10.7% ok
	<u>GWC-20R</u>	<u>Dup-3</u>	<u>RPD</u>
TDS	163	167	2.4% ok

Flag J : GWA-36, Dup-1

Lab dups:

- p. 56 not samples from this SDG
- p. 57 GWA-55R and GWA-53 RPDs = 1 OK
- p. 58 GWC-24R RPD = 11 **flag result J**
- p. 59 GWC-23R RPD = 7 ok

Matrix Spike recoveries and RPDs within limits (if applicable)

None for TDS

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

100% of the results in this SDG were checked



Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 3 & 4 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG Nos: 92529992 and 92529993

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 16 Groundwater Detection Monitoring Sampling Event 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 2021. 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 300.0 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 SW6010D and SW6020B, 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

These SDGs contains the following groundwater and quality control (QC) samples:

Sample ID	Sample Date	DQE Level			
GWA-36R	03/26/21	II	<u>QA/QC Samples</u>	Sample Date	DQE Level
GWA-36R Filtered	03/26/21	II	FB-6	03/26/21	II

The samples reported in these SDGs were collected from Landfill Cells 3&4 on March 26, 2021. Dissolved metals were additionally submitted for GWA-36R due to elevated turbidity and were reported separately in SDG 92529992, while total metals and the remaining parameters were reported in SDG 92529993.

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 except for field blank contamination and MS/MSD recoveries.

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 samples in this SDG did not contain metals indicating the analytical system was contaminant free during analysis.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

An MS/MSD analysis was performed on sample GWA-36R Filtered, and the MS recovery for calcium was above the upper QC limit, indicating possible high bias.

Action: No qualification was necessary because the associated calcium result was greater than 4 times the spike, potentially masking the recovery.

Field Duplicate Precision

No field duplicate pairs were submitted in this SDG.

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. One or more of the field blanks contained the following analytes: boron. Results less than five times the field blank are considered "not detected" as a possible field artifact: **Reason Code: BF**.

Action: The boron results for GWA-36R and GWA-36R Filtered 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. 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. A sample from monitoring well GWA-36R was submitted for total and dissolved metals, and the total metals results were greater than the associated dissolved results.

Anions (EPA 300)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300.0, and each of the Level II components were within QC limits.

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 Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSD analyses were not performed on any samples in this SDG.

Field Duplicate Precision

No field duplicate pairs were submitted in this SDG.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field blank associated with the samples of this SDG 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. 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 except for field blank contamination.

Holding Times

The sample analyses were performed within the 7-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Field Duplicate Precision

No field duplicate pairs were submitted in this SDG.

Laboratory Duplicate Precision

No laboratory duplicates were analyzed for samples in this SDG for TDS.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The field blank 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. Professional judgment was not used to modify flags for results reported in samples presented in this SDG.

Completeness

A total of 23 wells, along with the required QC samples, were sampled and analyzed during the February and March event in Landfill Cells 3&4 according to the FSP (Amec Foster Wheeler, 2017). The well location and field blank 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 04/08/21

Checked By/Date: DWK 04/13/21 and JAH 04/13/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUPS 92529992 and 92529993
SAMPLING DATE: March 26, 2021
Plant Bowen Landfill Cells 3 & 4: Event 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
FB-6-0321	Field Blank	FB	92529993	6020B	boron	0.037	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	antimony	0.00092	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	beryllium	0.00019	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	boron	0.019	J	U*	BF	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	cadmium	0.00015	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	chromium	0.0006	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	lead	0.00095	J	J	--	mg/L
GWA-36R	GWA-36R	N	92529993	6020B	lithium	0.0033	J	J	--	mg/L
GWA-36R Filtered	GWA-36R	N	92529992	6020B	dissolved antimony	0.00066	J	J	--	mg/L
GWA-36R Filtered	GWA-36R	N	92529992	6020B	dissolved beryllium	0.000058	J	J	--	mg/L
GWA-36R Filtered	GWA-36R	N	92529992	6020B	dissolved boron	0.011	J	U*	BF	mg/L
GWA-36R Filtered	GWA-36R	N	92529992	6020B	dissolved lead	0.000093	J	J	--	mg/L

Notes:

Metals results are total unless noted

Laboratory Qualifiers:

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

Reason Codes:

BF = Field 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: JPM 04/08/21

Checked by/Date: DWK 04/12/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Metals and Mercury by SW6010D/SW6020B/SW7470

Laboratory and Lot: Pace SDG: 92529992 and 92529993

Reviewer/Date: J. McIntyre 04/08/21 **Senior Reviewer/Date:** D. Knaub 04/13/21 and JAH 04/13/21

YES NO NA

COMMENTS

Case Narrative and COC Completeness Review

OK – Ca was reported by 6020B for this well instead of by 6010D.
RL for Ca by 6020 is lower than 6010, no flags necessary.

Sample Preservation and cooler temperature met (HNO₃ to pH<2)

OK, 3.4°C

Holding times met (180 days; Hg = 28 days)

Coll: 03/26/21
 Prep: metals – 04/01/21 (tot), 04/07/21 (diss)
 Hg – 04/06/21 (tot), 04/08/21 (diss)
 Anal: metals – 04/01/21, 04/06/21 (tot) 04/07/21-04/09/21 (diss)
 Hg – 04/07/21 (tot), 04/08/21 (diss)

QC Blanks Review

Method Blanks:

92529993 p. 8 MB 3215299 (6010) Ca = ND
 p. 9 MB 3215309 (6020) = All ND
 p. 11 MB 3218851 (7470) = ND

92529992 p. 7 MB 3221593 (6020) = All ND
 p. 9 MB 3221629 (7470) =ND

Field blanks

FB-6-0321= B – 0.037J x 5 = **0.185** mg/L

Flag U* GWA-36R (total and dissolved): Reason Code: FB

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)

92529993 p. 8 LCS 3215300 (6010) Ca = 103%
 p. 9 LCS 3215310 (6020) – All %rec OK
 p. 11 LCS 3218852 (7470) Hg = 95%

92529992 p. 7 LCS 3221594 (6020) = All %rec OK
 p. 9 LCS 3221630 (7470) Hg = 98%

Lab Duplicate - Field Duplicate precision goals met (20%)

No field or lab dups in this SDG

Metals and Mercury by 6020B/7470A (cont.)

YES NO NA COMMENTS

 Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)
 92529993 6010
 p. 8 not sample from this SDG (6010)
 6020
 p. 10 not sample from this SDG (6020)
 7470
 p. 11 not a sample from this SDG (7470)
 92529992 p. 8 GWA-36R Filtered Ca = *227*, 87% RPD = 5 *No flag, assoc. result > 4x spike*

 Total metals vs dissolved metals within limits (diss. < 10% more than total)
 Dissolved metals analyzed due to turbidity issues with the well after 2x redevelopment.
All total metals are greater than the assoc. dissolved metals. OK

 EDD Data Verification vs. Hardcopy (10% samples for each SDG)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92529992 and 92529993

Reviewer/Date: J. McIntyre 04/08/21 **Senior Reviewer/Date:** D. Knaub 04/12/21

<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 (Cool to 6°C) OK, 3.4°C
<input checked="" type="checkbox"/>			Holding times met (Cl, SO₄, F – 28 days) Coll: 03/26/21 Anal: 04/03/21
<input checked="" type="checkbox"/>			QC Blanks Review <u>Method Blanks:</u> p. 13 MB 3217098 = All ND <u>Field blanks</u> FB-6 = All ND
<input checked="" type="checkbox"/>			Laboratory Control Sample (LCS) recovery within limits (90-110%) p. 13 LCS 3217099 - all ok
		<input checked="" type="checkbox"/>	Lab Duplicate - Field Duplicate precision goals met (20%) No field or lab duplicates in this SDG
<input checked="" type="checkbox"/>			Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20) p. 13 not samples from this SDG
<input checked="" type="checkbox"/>			EDD Data Verification vs. Hardcopy (10% samples for each SDG) <i>No anions were reported in 92529993</i>

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 92529992 and 92529993

Reviewer/Date: J. McIntyre 04/08/21 **Senior Reviewer/Date:** D. Knaub 04/12/21

<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 (Cool to 6°C) OK, 3.4°C
<input checked="" type="checkbox"/>			Holding times met (7 days) Coll: 03/26/21 Anal: 04/01/21
<input checked="" type="checkbox"/>			QC Blanks Review <u>Method Blanks:</u> p. 12 MB 3215770 TDS = ND <u>Field blanks</u> FB-6= All ND
<input checked="" type="checkbox"/>			Laboratory Control Sample (LCS) recovery within lab limits p. 12 LCS 3215771 TDS = 98%
<input checked="" type="checkbox"/>			Lab Duplicate - Field Duplicate precision goals met (20%) No field duplicates p. 12 lab dup - not samples from this SDG
		<input checked="" type="checkbox"/>	Matrix Spike recoveries and RPDs within limits (if applicable) <i>None for TDS</i>
<input checked="" type="checkbox"/>			EDD Data Verification vs. Hardcopy (10% samples for each SDG) <i>No TDS was reported in 92529993</i>



Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 9 & 10 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG No: 92527492

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the CCR Event # 16 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 2021. 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 revised 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 6010D and 6020B, 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-39RZ	03/16/21	II	GWC-47R	03/11/21	II
GWA-39Z	03/12/21	II	GWC-48	03/11/21	II
GWA-40	03/10/21	II	GWC-49R	03/15/21	II
GWA-41	03/11/21	II	GWC-49Z	03/15/21	II
GWA-41R	03/10/21	II	<u>QA/QC Samples:</u>		
GWA-42	03/11/21	II	EB-1	03/16/21	II
GWA-43	03/11/21	II	FB-1	03/10/21	II
GWA-43R	03/11/21	II	FB-2	03/11/21	II
GWC-44	03/11/21	II	FB3	03/12/21	II
GWC-45	03/11/21	II	FB-4	03/15/21	II
GWC-45R	03/11/21	II	FB-5	03/16/21	II
GWC-46R	03/11/21	II	DUP-1	03/11/21	II
GWC-47	03/11/21	II	Dup-2	03/12/21	II

The samples reported in this SDG were collected from Landfill Cells 9&10 between March 11 and March 16, 2021. Sample DUP-1 is the field duplicate sample of GWA-43R and sample Dup-2 is the field duplicate sample of GWA-39Z. The equipment blank was collected on the equipment used to sample the locations at Landfill Cells 9&10, and one field blank per day was collected.

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 except for method and field blank contamination and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6 month and 28-day (for mercury) analysis holding times.

Method Blanks

Two of the method blanks associated with samples in this SDG contained boron between the MDL and the RL, and one of the blanks also contained antimony. Results less than five times the blank are considered not detected as a possible laboratory artifact. **Reason Code: BL**

Action: The associated antimony and boron results were considered not detected and flagged "U" due to method blank contamination.*

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSD analyses were performed for metals on samples GWC-49R, FB-3, and Dup-2 from this SDG, and the recoveries and RPDs were within QC limits except for calcium in GWC-49R.

Action: No qualification was necessary for calcium because the sample result was more than 4 times greater than the spike concentration.

Field Duplicate Precision

Two field duplicate pairs were submitted 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 equipment blank sample did not contain metals, and no results were considered possible field artifacts. One or more of the field blanks contained the following analytes: zinc, calcium, and cadmium. Results less than five times the field blank are considered "not detected" as a possible field artifact: **Reason Code: BF.**

Action: The positive zinc results less than five times the field blank was qualified as not detected due to possible field blank contamination and flagged "U". No qualification was necessary for calcium or cadmium because the associated results were non-detect or greater than five times the blank.*

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. 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 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 300.0, and each of the Level II components were within QC limits except for MS/MSD recoveries.

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 Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSD analyses were performed for anions on samples FB-3, GWC-45R, and EB-1, and the recoveries and RPDs were within QC limits except for the MS recovery for fluoride in FB-3.

Action: No qualification was necessary because the MSD and RPD were within QC limits.

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG and the RPDs were within QC limits.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank and field blanks associated with the samples of this SDG 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. 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 except for laboratory duplicate precision.

Holding Times

The sample analyses were performed within the 7-day analysis holding times.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Samples (LCSs)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG and the RPDs were within QC limits.

Laboratory Duplicate Precision

A laboratory duplicate was analyzed for TDS on sample GWC-44, and the RPD was outside of QC limits.

Reason Code: LD

Action: The TDS results for samples GWC-44 was qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

The equipment blank and two of the field blanks associated with the samples in this SDG reported TDS; however, no qualification is applied for TDS in the field and equipment blanks.

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. Professional judgment was not 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 September 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: DWK 04/08/21

Checked By/Date: JAH 04/12/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92527492
SAMPLING DATES: March 10-16, 2021
Plant Bowen Landfill Cells 9 & 10: Event # 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
FB-1	Field Blank	FB	92527492	SW6010D	zinc	0.0094	J	J	--	mg/L
FB-2	Field Blank	FB	92527492	SW6020B	antimony	0.00036	J, B	U*	BL	mg/L
FB3	Field Blank	FB	92527492	SW6010D	calcium	0.87	J	J	--	mg/L
FB-4	Field Blank	FB	92527492	SW6020B	cadmium	0.00012	J	J	--	mg/L
GWA-39RZ	GWA-39RZ	N	92527492	SW6020B	antimony	0.00041	J, B	U*	BL	mg/L
GWA-39RZ	GWA-39RZ	N	92527492	SW6020B	chromium	0.00080	J	J	--	mg/L
GWA-39RZ	GWA-39RZ	N	92527492	SW6020B	lead	0.00020	J	J	--	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6010D	zinc	0.0065	J	U*	BF	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	antimony	0.0039	B	U*	BL	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	boron	0.011	J, B	U*	BL	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	chromium	0.00064	J	J	--	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	cobalt	0.00079	J	J	--	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	lead	0.00020	J	J	--	mg/L
GWA-39Z	GWA-39Z	N	92527492	SW6020B	nickel	0.0015	J	J	--	mg/L
GWA-39Z	GWA-39Z	N	92527492	E300.0	fluoride	0.051	J	J	--	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	antimony	0.0028	J, B	U*	BL	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	boron	0.012	J, B	U*	BL	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	chromium	0.00071	J	J	--	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	cobalt	0.00093	J	J	--	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	lead	0.0021	J	J	--	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	nickel	0.0016	J	J	--	mg/L
DUP-2	GWA-39Z	FD	92527492	SW6020B	thallium	0.00015	J	J	--	mg/L
GWA-40	GWA-40	N	92527492	SW6020B	chromium	0.00075	J	J	--	mg/L
GWA-40	GWA-40	N	92527492	E300.0	chloride	0.97	J	J	--	mg/L
GWA-41	GWA-41	N	92527492	SW6020B	antimony	0.00038	J, B	U*	BL	mg/L
GWA-41	GWA-41	N	92527492	SW6020B	boron	0.0075	J, B	U*	BL	mg/L
GWA-41	GWA-41	N	92527492	SW6020B	chromium	0.0015	J	J	--	mg/L
GWA-41R	GWA-41R	N	92527492	SW6020B	antimony	0.00037	J, B	U*	BL	mg/L
GWA-41R	GWA-41R	N	92527492	SW6020B	boron	0.0098	J, B	U*	BL	mg/L
GWA-41R	GWA-41R	N	92527492	SW6020B	lead	0.00012	J	J	--	mg/L
GWA-42	GWA-42	N	92527492	SW610D	zinc	0.0089	J	J	--	mg/L
GWA-42	GWA-42	N	92527492	SW6020B	beryllium	0.00015	J	J	--	mg/L
GWA-42	GWA-42	N	92527492	SW6020B	cadmium	0.00017	J	J	--	mg/L
GWA-42	GWA-42	N	92527492	SW6020B	nickel	0.0011	J	J	--	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92527492
SAMPLING DATES: March 10-16, 2021
Plant Bowen Landfill Cells 9 & 10: Event # 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWA-43	GWA-43	N	92527492	SW6020B	lead	0.000063	J	J	--	mg/L
GWA-43R	GWA-43R	N	92527492	SW6020B	antimony	0.00074	J, B	U*	BL	mg/L
GWA-43R	GWA-43R	N	92527492	SW6020B	boron	0.017	J, B	U*	BL	mg/L
GWA-43R	GWA-43R	N	92527492	SW6020B	chromium	0.0011	J	J	--	mg/L
GWA-43R	GWA-43R	N	92527492	SW6020B	lead	0.00013	J	J	--	mg/L
DUP-1	GWA-43R	FD	92527492	SW6020B	antimony	0.0011	J, B	U*	BL	mg/L
DUP-1	GWA-43R	FD	92527492	SW6020B	boron	0.020	J, B	U*	BL	mg/L
DUP-1	GWA-43R	FD	92527492	SW6020B	chromium	0.00098	J	J	--	mg/L
DUP-1	GWA-43R	FD	92527492	SW6020B	lead	0.00016	J	J	--	mg/L
GWC-44	GWC-44	N	92527492	SW6010D	zinc	0.0040	J	J	--	mg/L
GWC-44	GWC-44	N	92527492	SW6020B	beryllium	0.000064	J	J	--	mg/L
GWC-44	GWC-44	N	92527492	SW6020B	boron	0.016	J, B	U*	BL	mg/L
GWC-44	GWC-44	N	92527492	SW6020B	cobalt	0.0016	J	J	--	mg/L
GWC-44	GWC-44	N	92527492	SW6020B	lead	0.00053	J	J	--	mg/L
GWC-44	GWC-44	N	92527492	SM2540	total dissolved solids	43.0	D6	J	LD	mg/L
GWC-45	GWC-45	N	92527492	SW6010D	calcium	0.93	J	J	--	mg/L
GWC-45	GWC-45	N	92527492	SW6020B	antimony	0.00062	J, B	U*	BL	mg/L
GWC-45	GWC-45	N	92527492	SW6020B	cobalt	0.0011	J	J	--	mg/L
GWC-45	GWC-45	N	92527492	SW6020B	lead	0.00012	J	J	--	mg/L
GWC-45	GWC-45	N	92527492	SW6020B	nickel	0.00092	J	J	--	mg/L
GWC-45	GWC-45	N	92527492	E300.0	chloride	0.83	J	J	--	mg/L
GWC-45R	GWC-45R	N	92527492	SW6020B	boron	0.0060	J, B	U*	BL	mg/L
GWC-45R	GWC-45R	N	92527492	SW6020B	lead	0.000045	J	J	--	mg/L
GWC-47	GWC-47	N	92527492	SW6020B	cadmium	0.00018	J	J	--	mg/L
GWC-47	GWC-47	N	92527492	SW6020B	chromium	0.0013	J	J	--	mg/L
GWC-47	GWC-47	N	92527492	SW6020B	lead	0.000048	J	J	--	mg/L
GWC-47R	GWC-47R	N	92527492	SW6020B	antimony	0.00038	J, B	U*	BL	mg/L
GWC-47R	GWC-47R	N	92527492	SW6020B	chromium	0.0019	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW6010D	zinc	0.0088	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW6020B	beryllium	0.00033	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW6020B	cadmium	0.00021	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW6020B	chromium	0.0021	J	J	--	mg/L

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92527492
SAMPLING DATES: March 10-16, 2021
Plant Bowen Landfill Cells 9 & 10: Event # 16

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-48	GWC-48	N	92527492	SW6020B	cobalt	0.0025	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW6020B	nickel	0.0047	J	J	--	mg/L
GWC-48	GWC-48	N	92527492	SW7470A	mercury	0.00020	J	J	--	mg/L
GWC-49R	GWC-49R	N	92527492	SW6020B	antimony	0.0019	J, B	U*	BL	mg/L
GWC-49R	GWC-49R	N	92527492	SW6020B	boron	0.010	J, B	U*	BL	mg/L
GWC-49R	GWC-49R	N	92527492	SW6020B	chromium	0.00076	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6010D	calcium	0.69	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	antimony	0.00086	J, B	U*	BL	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	barium	0.0028	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	boron	0.0066	J, B	U*	BL	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	cobalt	0.00056	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	lead	0.000046	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	nickel	0.0013	J	J	--	mg/L
GWC-49Z	GWC-49Z	N	92527492	SW6020B	chloride	0.98	J	J	--	mg/L

Notes:

Laboratory Qualifiers:

B = Analyte was detected in the associated method blank.

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

D6 = The precision between the sample and the sample duplicate exceeded laboratory control limits.

Reason Codes:

BF = Field blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

LD = Laboratory duplicate precision.

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: DWK 04/08/21

Checked by/Date: JAH 04/12/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD**Project:** Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event**Project No:** 6122160287.2103.******Method:** Metals and Mercury by SW6010D/SW6020B/SW7470**Laboratory and Lot:** Pace SDG: 92527492**Reviewer/Date:** D. Knaub 04/08/21**Senior Reviewer/Date:** J. Hartness 04/12/21YESNONACOMMENTS**Case Narrative and COC Completeness Review**

OK

Sample Preservation and cooler temperature met (HNO₃ to pH<2)

OK, 4.8°C

Holding times met (180 days; Hg = 28 days)

Coll: 03/10/21-03/12/21, 03/15/21-03/16/21

Prep: metals – 03/19/21, 03/27/21, 03/29/21

Hg – 03/17/21, 03/25/21

Anal: metals – 03/22/21, 03/19/21, 03/29/21, 04/02/21

Hg – 03/18/21, 03/26/21

QC Blanks ReviewMethod Blanks:

p. 39 MB 3201594 (6010) Ca and Zn = ND

p. 40 MB 3212247 (6010) Ca and Zn = ND

p. 41 MB 3201620 (6020) Sb = 0.00058 J x5 = 0.0029 mg/L

B = 0.0065 J x5 = 0.0325 mg/L

Flag assoc. results U*: Reason Code: BL*Sb and B: Dup-2, GWZ-39Z, DUP-1, GWA-41, GWA-43R, GWA-41R, GWC-49R, GWC-49Z**Sb only: FB-2, GWC-45, GWC-47R, GWA-39RZ*

p. 43 MB 3211404 (6020) B = 0.0061 J x5 = 0.0305 mg/L

Flag assoc. results U*: GWC-44, GWC-45R

p. 45 MB 3199454 (7470) Hg = ND

p. 46 MB 3209294 (7470) Hg = ND

Field blanksFB-1 – Zn = 0.0094 J x5 = 0.047 mg/L *No flags, assoc. results ND*FB-2 Sb = 0.0036 U* *Flagged for MB, no add. flags*

FB-3 Ca = 0.87 J x5 = 4.35 mg/L Zn = 0.14 x 5 = 0.7 mg/L

Flag assoc. results U*: Reason Code: BFGWA-39Z (Zn only) *Assoc. Ca results > 5x blank*FB-4 Cd = 0.00012 J x5 = 0.0006 mg/L *No flags, assoc. results ND*

FB-5 = All ND

Equipment blank:

EB-1 = All ND

Metals and Mercury by 6020B/7470A (cont.)

YES NO NA COMMENTS



**Laboratory Control Sample (LCS) recovery within limits
(Metals 70-130%, Hg = 80-120%)**

p. 39 LCS 3201595 (6010) Ca = 100% Zn = 97% p. 40 LCS 3212247 (6010) Ca = 102% Zn = 99%
 p. 41 LCS 3201621 (6020) – All %rec OK p. 43 LCS 3211405 (6020) – All %rec OK
 p. 45 LCS 3199455 (7470) Hg = 94% p. 46 LCS 3209295 (7470) Hg = 98%



Lab Duplicate - Field Duplicate precision goals met (20%)

**for results <RL, diff must be <RL*

	GWA-43R	Dup-1	*Diff or RPD	RL
Ca	31.2	31.0	0.6	NA
Sb	0.00074J	0.0011J	0.00036	0.0030
Ba	0.0069	0.0069J	0.0	0.0050
B	0.017J	0.020J	0.003	0.040
Cr	0.0011J	0.00098J	0.00012	0.0050
Pb	0.00013J	0.00016J	0.00003	0.001

	GWA-39Z	Dup-2	*Diff or RPD	RL
Ca	11.0	11.1	0.9	NA
Sb	0.0039U*	0.0028U*	NA	NA
Ba	0.014	0.015	6.9	NA
B	0.011J	0.012J	0.001	0.040
Cr	0.00064J	0.00071J	0.0005	0.005
Co	0.00079J	0.00093J	0.00014	0.005
Pb	0.00020J	0.00021J	0.00001	0.001
Ni	0.0015J	0.0016J	0.0001	0.005
Tl	<0.00014	0.00015J	NA	NA
Zn	0.0065J	<0.0035	NA	NA



Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)

p. 39 not a sample from this SDG (6010) p. 40 GWC-49R (6010) Zn = 96, 98% RPD = 1
 Ca = 67, 235% RPD = 6 *No flag, sample > 4x spike*
 p. 42 FB3 (6020) – all %Rec and RPDs OK p. 43 not a sample from this SDG (6020)
 p.45 Dup-2 (7470) Hg = 85, 88% RPD=4 p. 46 not a sample from this SDG (7470)



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 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: Anions (chloride, fluoride, sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92527492

Reviewer/Date: D. Knaub 04/08/21 **Senior Reviewer/Date:** J. Hartness 04/12/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 4.8°C

 Holding times met (Cl, SO₄, F – 28 days)
Coll: 03/10/21-03/12/21, 03/15/21-03/16/21
Anal: 03/18/21, 03/19/21, 03/23/21, 03/24/21

 QC Blanks Review
Method Blanks:
p. 52 MB 3198670 = ND p. 53 MB 3198676 = ND
p. 54 MB 3200518 = ND p. 55 MB 3204508 = ND
p. 56 MB 3204980 = ND

Field blanks
FB-1 = All ND FB-2 = All ND
FB-3 = All ND FB-4 = All ND
FB-5 = All ND

Equipment blank:
EB-1 = All ND

 Laboratory Control Sample (LCS) recovery within limits (90-110%)
p. 52 LCS 3198671 - all ok p. 53 LCS 3198677 – all ok
p. 54 LCS 3200519 – all ok p. 55 LCS 3204509 – all ok
p. 56 LCS 3204981 – all ok

 Lab Duplicate - Field Duplicate precision goals met (20%)

	<u>GWA-43R</u>	<u>Dup-1</u>	<u>RPD</u>
Cl	2.7	2.7	0.0
SO ₄	4.3	4.3	0.0

	<u>GWA-39Z</u>	<u>Dup-2</u>	<u>RPD</u>
Cl	1.2	1.2	0.0
SO ₄	2	1.9	5.1
F	0.051J	<0.05	NA

Anions (chloride, fluoride, sulfate) by EPA 300.0 (cont.)

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
	<input checked="" type="checkbox"/>		<p>Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)</p> <p>p. 52 not samples from this SDG</p> <p>p. 53 FB-3 – OK except for F = 112, 109% RPD = 3 <i>No flag, MSD and RPD ok</i></p> <p style="padding-left: 40px;">GWC-45R -%Rec and RPDs OK</p> <p>p. 54 not samples from this SDG</p> <p>p. 55 not samples from this SDG</p> <p>p. 56 EB-1 - %Rec and RPDs OK</p>
	<input checked="" type="checkbox"/>		<p>EDD Data Verification vs. Hardcopy (10% samples for each SDG)</p>

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual State D&O Permit Event

Project No: 6122160287.2103.****

Method: TDS by SM 2540C

Laboratory and Lot: Pace SDG: 92527492

Reviewer/Date: D. Knaub 04/08/21 **Senior Reviewer/Date:** J. Hartness 04/12/21

YES NO NA COMMENTS

 Case Narrative and COC Completeness Review
OK

 Sample Preservation and cooler temperature met (Cool to 6°C)
OK, 4.8°C

 Holding times met (7 days)
Coll: 03/10/21-03/12/21, 03/15/21-03/16/21
Anal: 03/16/21, 03/17/21, 03/22/21, 03/23/21

 QC Blanks Review
Method Blanks:
p. 47 MB 3197209 TDS = ND
p. 48 MB 3197215 TDS = ND
p. 49 MB 3199480 TDS = ND
p. 50 MB 3203640 TDS = ND
p. 51 MB 3203650 TDS = ND

Field blanks
FB-1 = All ND FB-2 = All ND
FB-3 = All ND FB-4 = All ND
FB-5 = All ND

 Laboratory Control Sample (LCS) recovery within lab limits
p. 47 LCS 3197210 TDS = 98%
p. 48 LCS 3197216 TDS = 96%
p. 49 LCS 3199481 TDS = 100%
p. 50 LCS 3203641 TDS = 92%
p. 51 LCS 3203651 TDS = 104%

 Lab Duplicate - Field Duplicate precision goals met (20%)

	<u>GWA-43R</u>	<u>Dup-1</u>	<u>RPD</u>
TDS	98	115	16.0% ok
	<u>GWA-39Z</u>	<u>Dup-2</u>	<u>RPD</u>
TDS	55.0	48.0	13.6% ok

TDS by SM 2540C (cont)

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
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Lab dups:

p. 47 not samples from this SDG,

p. 48 GWC-44 RPD = 19% **Flag assoc. result J: Reason Code: LD**

p. 49 not samples from this SDG

p. 50 not samples from this SDG

p. 51 not samples from this SDG

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 # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring – Resampling Event**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 1&2 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG No: 92541315

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the resampling event for CCR Event # 16 Groundwater Detection Monitoring Sampling and the Semiannual State Design and Operation (D&O) Permit conducted at Landfill Cells 1 & 2 at Plant Bowen, located in Cartersville, Georgia in May 2021 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) to verify statistically significant increases in concentrations observed during the March 2021 event. 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 SW6020B and EPA 300.0.

Sample Integrity

The groundwater and QC samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for select metals (antimony, barium, and chromium) by Method SW6020B and anions (sulfate) by Method 300.0.

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-11R	05/26/21	II	<u>QC Samples</u>		
			FB-1	05/26/21	II
			EB-1	05/26/21	II
			DUP-1	05/26/21	II

The groundwater and QC samples presented in this SDG were re-collected from Landfill Cells 1&2 on May 26, to verify results with statistically significant increases reported from the March 2021 sampling event. Sample DUP-1 is a field duplicate of GWC-11R and was inadvertently analyzed for additional metals (barium and chromium) and sulfate. Samples EB-1 and FB-1 are equipment and field blank samples associated with the samples in this SDG and the samples reported in SDG 92541313.

The analytical results for the metals and anions data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The groundwater sample, GWC-11R, was submitted to Pace for re-analysis of antimony (Sb), and samples DUP-1, FB-1, and EB-1, were submitted for Sb, barium (Ba), and chromium (Cr) by Method SW6020B. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks associated with the samples in this SDG did not contain metals above the method detection limit (MDL).

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 not performed on any samples from this SDG.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

One field duplicate was collected with this SDG, and the RPD for antimony was within QC limits. As previously noted, DUP-1 was additionally submitted in error for barium and chromium, however there was no effect on the quality of the data.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field blanks and equipment blanks. Field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Equipment blanks are collected to assess potential cross-contamination from using non-dedicated sampling equipment. The field and equipment blanks did not report metals above the MDL.

Reporting Limits

The laboratory reporting limits (RLs) were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B.

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 dissolved samples were collected and reported in this SDG.

Anions (EPA 300.0)

The DUP-1, FB-1, and EB-1 samples were submitted to Pace for sulfate by Method 300.0. Sample DUP-1 was inadvertently analyzed for sulfate. Each of the Level II components were within the QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

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 not performed on any sample in this SDG.

Field Duplicate Precision

One field duplicate sample was collected with this SDG, however as previously noted the parent sample was not analyzed for sulfate. There was no effect on the quality of the data.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field and equipment blanks, and neither contained positive results for sulfate.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. 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.

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 1 well, along with the required QC samples, were sampled and analyzed during the May 2021 re-sampling event in Landfill Cells 1&2 according to the FSP (Amec Foster Wheeler, 2017). The 1 well location along with one field duplicate, one field blank, and one equipment blank were reported in this SDG, and were sampled and analyzed as scoped.

The field and analytical completeness were 100%. Therefore, the overall completeness was acceptable.

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: DWK 06/16/21

Checked by/Date: JAH 06/16/21

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92541315
SAMPLING DATES: May 26, 2021
Plant Bowen Landfill Cells 1 & 2: Event 16 Re-sample

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
DUP-1	GWC-11R	FD	92541315	6020B	antimony	0.0016	J	J	--	mg/L
DUP-1	GWC-11R	FD	92541315	6020B	chromium	0.0043	J	J	--	mg/L

Laboratory Qualifiers:

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

Reason Codes:

-- = 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

Prepared by/Date: DWK 06/16/21

Checked by/Date: JAH 06/16/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual Event Resample

Project No: 6122160287.2103.****

Method: Metals by SW6020B

Laboratory and Lot: Pace SDG: 92541315

Reviewer/Date: D. Knaub 06/16/21 **Senior Reviewer/Date:** J. Hartness 06/16/21

YES NO NA

COMMENTS

DUP-1 = Sb; DUP-1, FB-1, and EB-1 = Sb, Ba, Cr

 Case Narrative and COC Completeness Review
 OK – Intra-lab COCs not included. *DUP-1 inadvertently analyzed for Ba and Cr.*

 Sample Preservation and cooler temperature met (HNO₃ to pH<2)
 OK - temp = 3.2°C (*as corrected by the lab*)

 Holding times met (180 days; Hg = 28 days)
 Coll: 05/26/21
 Prep: 06/01/21
 Anal: 06/01/21

 QC Blanks Review
Method Blanks:
 p. 10 MB 3281806 6020 = ND
Field and Equipment Blanks:
 FB-1 = All ND
 EB-1 = All ND

 Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)
 p. 10 LCS 3281806 6020 – all ok

 Lab Duplicate - Field Duplicate precision goals met (20%)
 (results in mg/L)

	RL	GWC-11R	DUP-1	*Diff/RPD
Sb	0.003	0.0037	0.0016 J	*0.0021
Cr	0.005	NA	0.0043 J	-
Ba	0.005	NA	0.020	-

**for results <RL, diff is <RL; OK*
DUP-1 inadvertently analyzed for Ba and Cr

 Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20)
 p. 10 not a sample from this SDG (%rec and RPDs 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)
100% of the results in this SDG were checked

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual Event Resample

Project No: 6122160287.2103.****

Method: Anions (sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92541315

Reviewer/Date: D. Knaub 06/16/21 **Senior Reviewer/Date:** J. Hartness 06/16/21

YES NO NA
 DUP-1, FB-1, and EB-1

COMMENTS

 Case Narrative and COC Completeness Review
 OK – Intra-lab COCs not included. *DUP-1 inadvertently analyzed for sulfate.*

 Sample Preservation and cooler temperature met (Cool to 6°C)
 OK - temp = 3.2°C (*as corrected by the lab*)

 Holding times met (Cl, SO₄, F – 28 days)
 Coll: 05/26/21
 Anal: 05/28/21

 QC Blanks Review
Method Blanks:
 p. 11 MB 3280616 = ND

Field and Equipment Blanks:
 FB-1 and EB-1 = ND

 Laboratory Control Sample (LCS) recovery within limits (90-110%)
 p. 11 LCS 3280617 SO₄ = 102%

 Lab Duplicate - Field Duplicate precision goals met (20%)
 (results in mg/L)

	GWC-11R	DUP-1	*Diff/RPD
SO ₄	NA	1.7	-

DUP-1 inadvertently analyzed for sulfate

 Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)
 p. 11 not samples from this SDG (%rec and RPDs ok)

 EDD Data Verification vs. Hardcopy (10% samples for each SDG)
100% of the results in this SDG were checked

Data Evaluation Narrative

**Project: Plant Bowen CCR Event # 16 Groundwater Detection Monitoring/
Semiannual State Design and Operation Permit Monitoring – Resampling Event**

Wood Project Number: 6122160287.2103.****

Site: Landfill Cells 9&10 - Plant Bowen, Georgia

Matrix: Groundwater

Pace SDG Nos: 92541313

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the resampling event for CCR Event # 16 Groundwater Detection Monitoring Sampling and the Semiannual State Design and Operation (D&O) Permit conducted at Landfill Cells 9 & 10 at Plant Bowen, located in Cartersville, Georgia in May 2021 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) to verify statistically significant increases in concentrations observed during the March 2021 event. 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 SW6020B and EPA 300.0.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for select metals (barium and chromium) by Method SW6020B and anions (sulfate) by Method 300.0.

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-46R	05/26/21	II	GWC-48	05/26/21	II

The groundwater samples were re-collected from Landfill Cells 9&10 on May 26, 2021 to verify results with statistically significant increases reported from the March 2021 sampling event. The associated field and equipment blanks (FB-1 and EB-1, respectively) were reported in SDG 92541315.

The analytical results for the metals and anions data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The samples were submitted to Pace for re-analysis of barium (Ba) and/or chromium (Cr) by Method SW6020B. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks associated with the samples in this SDG did not contain metals above the method detection limit (MDL).

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 for metals was performed on sample GWC-48, and the recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

A PDS analysis was not available for review.

Field Duplicate Precision

No field duplicate samples were collected with this SDG.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field blanks and equipment blanks. Field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Equipment blanks are collected to assess potential cross-contamination from using non-dedicated sampling equipment. The field and equipment blanks did not report metals above the MDL.

Reporting Limits

The laboratory reporting limits (RLs) were below the screening values for samples submitted for the analysis of metals by USEPA Method SW6020B.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, however there were none in this SDG.

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)

Sample GWC-48 was submitted to Pace for sulfate by Method 300.0. Each of the Level II components were within the QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

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 not performed on any samples in this SDG.

Field Duplicate Precision

No field duplicate samples were collected with this SDG.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of field and equipment blanks, and neither contained positive results for anions.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, however there were none in this SDG.

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 2 wells, along with the required QC samples, were sampled and analyzed during the May 2021 re-sampling event in Landfill Cells 9&10 according to the FSP (Amec Foster Wheeler, 2017). The 2 well locations were reported in this SDG and were sampled and analyzed as scoped, while the associated field and equipment blanks were reported separately.

The field and analytical completeness were 100%. Therefore, the overall completeness was acceptable.

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: DWK 06/16/21

Checked by/Date: JAH 06/16/21

**TABLE 1
SUMMARY OF DATA QUALIFIERS**

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92541313
SAMPLING DATES: May 26, 2021
Plant Bowen Landfill Cells 9 & 10: Event 16 Re-sample

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
GWC-46R	GWC-46R	N	92541313							No qualification necessary
GWC-48	GWC-48	N	92541313							No qualification necessary

No qualification was required for the data reported in this sample delivery group.

Prepared by/Date: DWK 06/14/21

Checked by/Date: JAH 06/16/21

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual Event Resample

Project No: 6122160287.2103.****

Method: Metals by SW6020B

Laboratory and Lot: Pace SDG: 92541313

Reviewer/Date: D. Knaub 06/16/21 **Senior Reviewer/Date:** J. Hartness 06/16/21

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
			GWC-46R = Cr; GWC-48 = Ba
<input checked="" type="checkbox"/>			Case Narrative and COC Completeness Review OK – Intra-lab COCs not included.
<input checked="" type="checkbox"/>			Sample Preservation and cooler temperature met (HNO₃ to pH<2) OK, temp = 3.1°C
<input checked="" type="checkbox"/>			Holding times met (180 days; Hg = 28 days) Coll: 05/26/21 Prep: 06/01/21 Anal: 06/01/21
	<input checked="" type="checkbox"/>		QC Blanks Review <u>Method Blanks:</u> p. 8 MB 3281806 6020 = ND <u>Field and Equipment Blanks (SDG 92541315):</u> FB-1 = All ND EB-1 = All ND
<input checked="" type="checkbox"/>			Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%) p. 8 LCS 3281806 6020 – all ok
	<input checked="" type="checkbox"/>		Lab Duplicate - Field Duplicate precision goals met (20%) None in this SDG
<input checked="" type="checkbox"/>			Matrix Spike recoveries and RPDs within limits (75-125%, RPD 20) p. 8 GWC-48 Ba = 100, 101% RPD = 1 Cr = 101, 103% RPD = 3
	<input checked="" type="checkbox"/>		Total metals vs dissolved metals within limits (RPD < 20% or diff. < RL) No dissolved metals in this SDG
<input checked="" type="checkbox"/>			EDD Data Verification vs. Hardcopy (10% samples for each SDG) <i>100% of the results in this SDG were checked</i>

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Bowen CCR Event 16 – Semiannual Event Resample

Project No: 6122160287.2103.****

Method: Anions (sulfate) by EPA 300.0

Laboratory and Lot: Pace SDG: 92541313

Reviewer/Date: D. Knaub 06/16/21 **Senior Reviewer/Date:** J. Hartness 06/16/21

YES NO NA
GWC-48 only

COMMENTS

- Case Narrative and COC Completeness Review**
OK – Intra-lab COCs not included.

- Sample Preservation and cooler temperature met (Cool to 6°C)**
OK, temp = 3.1°C

- Holding times met (Cl, SO₄, F – 28 days)**
Coll: 05/26/21
Anal: 05/28/21

- QC Blanks Review**
Method Blanks:
p. 9 MB 3280616 = ND

Field and Equipment Blanks (SDG 92541315):
FB-1 and EB-1 = ND

- Laboratory Control Sample (LCS) recovery within limits (90-110%)**
p. 9 LCS 3280617 SO₄ = 102%

- Lab Duplicate - Field Duplicate precision goals met (20%)**
None in this SDG

- Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**
p. 9 not samples from this SDG (%rec and RPDs ok)

- EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
100% of the results in this SDG were checked

FIELD SAMPLING REPORTS

Low-Flow Test Report:

Test Date / Time: 3/16/2021 12:49:54 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 141.8 ft Total Depth: 151.8 ft Initial Depth to Water: 84.4 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 146.8 ft Estimated Total Volume Pumped: 3520 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 9.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 9.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/16/2021 12:49 PM	00:00	7.56 pH	14.46 °C	300.67 µS/cm	1.07 mg/L	2.05 NTU	8.2 mV	93.70 ft	0.14 PSU	110.00 ml/min
3/16/2021 12:53 PM	04:00	7.56 pH	14.08 °C	300.05 µS/cm	1.09 mg/L	2.24 NTU	6.2 mV	93.75 ft	0.14 PSU	110.00 ml/min
3/16/2021 12:57 PM	08:00	7.56 pH	14.05 °C	300.07 µS/cm	1.08 mg/L	2.03 NTU	4.1 mV	93.82 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:01 PM	12:00	7.56 pH	14.04 °C	301.16 µS/cm	0.97 mg/L	2.03 NTU	1.0 mV	93.89 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:05 PM	16:00	7.56 pH	14.06 °C	302.33 µS/cm	0.86 mg/L	2.01 NTU	-2.4 mV	93.99 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:09 PM	20:00	7.56 pH	14.12 °C	302.02 µS/cm	0.80 mg/L	2.21 NTU	-5.0 mV	94.08 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:13 PM	24:00	7.56 pH	14.06 °C	302.61 µS/cm	0.80 mg/L	2.36 NTU	-7.1 mV	94.17 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:17 PM	28:00	7.57 pH	13.99 °C	302.23 µS/cm	0.84 mg/L	2.52 NTU	-8.8 mV	94.25 ft	0.14 PSU	110.00 ml/min
3/16/2021 1:21 PM	32:00	7.57 pH	13.98 °C	302.35 µS/cm	0.88 mg/L	2.54 NTU	-10.8 mV	94.35 ft	0.14 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWA-1	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 10:00:50 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 144.25 ft Total Depth: 154.25 ft Initial Depth to Water: 79.84 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 149.25 ft Estimated Total Volume Pumped: 15400 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 10:00 AM	00:00	6.57 pH	14.62 °C	144.36 µS/cm	5.37 mg/L	0.73 NTU	76.0 mV	79.91 ft	0.07 PSU	110.00 ml/min
3/17/2021 10:04 AM	04:00	6.26 pH	14.71 °C	86.92 µS/cm	5.54 mg/L	0.68 NTU	54.8 mV	79.91 ft	0.04 PSU	110.00 ml/min
3/17/2021 10:08 AM	08:00	5.99 pH	14.76 °C	55.50 µS/cm	5.69 mg/L	0.88 NTU	54.6 mV	79.91 ft	0.03 PSU	110.00 ml/min
3/17/2021 10:12 AM	12:00	5.83 pH	14.73 °C	42.66 µS/cm	5.79 mg/L	0.60 NTU	54.0 mV	79.91 ft	0.02 PSU	110.00 ml/min
3/17/2021 10:16 AM	16:00	5.75 pH	14.72 °C	35.71 µS/cm	5.91 mg/L	0.63 NTU	53.5 mV	79.91 ft	0.02 PSU	110.00 ml/min
3/17/2021 10:20 AM	20:00	5.68 pH	14.75 °C	32.62 µS/cm	5.99 mg/L	0.93 NTU	53.8 mV	79.91 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:24 AM	24:00	5.65 pH	14.77 °C	30.75 µS/cm	6.06 mg/L	0.59 NTU	52.6 mV	79.91 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:28 AM	28:00	5.65 pH	14.77 °C	29.37 µS/cm	6.12 mg/L	1.15 NTU	50.9 mV	79.91 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:32 AM	32:00	5.62 pH	14.77 °C	28.15 µS/cm	6.15 mg/L	1.08 NTU	51.4 mV	79.90 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:36 AM	36:00	5.60 pH	14.76 °C	27.05 µS/cm	6.17 mg/L	0.96 NTU	50.8 mV	79.90 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:40 AM	40:00	5.59 pH	14.76 °C	27.05 µS/cm	6.20 mg/L	1.11 NTU	50.6 mV	79.89 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:44 AM	44:00	5.59 pH	14.81 °C	28.08 µS/cm	6.21 mg/L	1.00 NTU	47.9 mV	79.89 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:48 AM	48:00	5.61 pH	14.85 °C	30.82 µS/cm	6.20 mg/L	0.98 NTU	48.1 mV	79.89 ft	0.01 PSU	110.00 ml/min
3/17/2021 10:52 AM	52:00	5.65 pH	14.92 °C	35.90 µS/cm	6.19 mg/L	1.07 NTU	46.9 mV	79.88 ft	0.02 PSU	110.00 ml/min
3/17/2021 10:56 AM	56:00	5.69 pH	14.90 °C	43.11 µS/cm	6.18 mg/L	0.94 NTU	45.8 mV	79.88 ft	0.02 PSU	110.00 ml/min

3/17/2021 11:00 AM	01:00:00	5.75 pH	14.87 °C	53.85 µS/cm	6.19 mg/L	0.89 NTU	43.7 mV	79.88 ft	0.02 PSU	110.00 ml/min
3/17/2021 11:04 AM	01:04:00	5.82 pH	14.85 °C	65.65 µS/cm	6.20 mg/L	0.86 NTU	41.7 mV	79.88 ft	0.03 PSU	110.00 ml/min
3/17/2021 11:08 AM	01:08:00	5.89 pH	14.85 °C	79.61 µS/cm	6.21 mg/L	0.77 NTU	40.4 mV	79.88 ft	0.04 PSU	110.00 ml/min
3/17/2021 11:12 AM	01:12:00	5.97 pH	14.92 °C	96.11 µS/cm	6.23 mg/L	0.99 NTU	39.0 mV	79.88 ft	0.04 PSU	110.00 ml/min
3/17/2021 11:16 AM	01:16:00	6.04 pH	14.94 °C	114.08 µS/cm	6.24 mg/L	0.82 NTU	37.3 mV	79.88 ft	0.05 PSU	110.00 ml/min
3/17/2021 11:20 AM	01:20:00	6.10 pH	14.97 °C	134.57 µS/cm	6.28 mg/L	0.85 NTU	35.9 mV	79.88 ft	0.06 PSU	110.00 ml/min
3/17/2021 11:24 AM	01:24:00	6.17 pH	14.99 °C	153.95 µS/cm	6.29 mg/L	0.85 NTU	35.1 mV	79.88 ft	0.07 PSU	110.00 ml/min
3/17/2021 11:28 AM	01:28:00	6.23 pH	14.99 °C	173.33 µS/cm	6.30 mg/L	0.76 NTU	34.3 mV	79.88 ft	0.08 PSU	110.00 ml/min
3/17/2021 11:32 AM	01:32:00	6.28 pH	15.03 °C	189.34 µS/cm	6.33 mg/L	0.98 NTU	33.4 mV	79.88 ft	0.09 PSU	110.00 ml/min
3/17/2021 11:36 AM	01:36:00	6.33 pH	15.03 °C	205.95 µS/cm	6.32 mg/L	1.25 NTU	32.3 mV	79.88 ft	0.10 PSU	110.00 ml/min
3/17/2021 11:40 AM	01:40:00	6.37 pH	15.03 °C	222.50 µS/cm	6.32 mg/L	0.82 NTU	32.0 mV	79.88 ft	0.11 PSU	110.00 ml/min
3/17/2021 11:44 AM	01:44:00	6.39 pH	15.03 °C	237.50 µS/cm	6.31 mg/L	0.88 NTU	32.0 mV	79.88 ft	0.11 PSU	110.00 ml/min
3/17/2021 11:48 AM	01:48:00	6.42 pH	15.03 °C	248.70 µS/cm	6.30 mg/L	1.01 NTU	31.2 mV	79.88 ft	0.12 PSU	110.00 ml/min
3/17/2021 11:52 AM	01:52:00	6.46 pH	15.08 °C	258.87 µS/cm	6.30 mg/L	0.69 NTU	30.5 mV	79.88 ft	0.12 PSU	110.00 ml/min
3/17/2021 11:56 AM	01:56:00	6.48 pH	15.09 °C	269.45 µS/cm	6.30 mg/L	1.10 NTU	30.1 mV	79.88 ft	0.13 PSU	110.00 ml/min
3/17/2021 12:00 PM	02:00:00	6.49 pH	15.12 °C	277.44 µS/cm	6.30 mg/L	1.35 NTU	30.4 mV	79.88 ft	0.13 PSU	110.00 ml/min
3/17/2021 12:04 PM	02:04:00	6.52 pH	15.12 °C	286.35 µS/cm	6.31 mg/L	0.93 NTU	29.9 mV	79.89 ft	0.14 PSU	110.00 ml/min
3/17/2021 12:08 PM	02:08:00	6.54 pH	15.14 °C	294.68 µS/cm	6.33 mg/L	0.76 NTU	29.5 mV	79.89 ft	0.14 PSU	110.00 ml/min
3/17/2021 12:12 PM	02:12:00	6.55 pH	15.21 °C	300.62 µS/cm	6.33 mg/L	0.97 NTU	29.0 mV	79.89 ft	0.14 PSU	110.00 ml/min
3/17/2021 12:16 PM	02:16:00	6.57 pH	15.21 °C	305.22 µS/cm	6.34 mg/L	1.01 NTU	29.0 mV	79.90 ft	0.15 PSU	110.00 ml/min
3/17/2021 12:20 PM	02:20:00	6.58 pH	15.26 °C	311.05 µS/cm	6.37 mg/L	0.96 NTU	29.2 mV	79.90 ft	0.15 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWA-2	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/16/2021 2:36:03 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-2R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 97.4 ft Total Depth: 107.4 ft Initial Depth to Water: 80.2 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 102.4 ft Estimated Total Volume Pumped: 4160 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 1.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/16/2021 2:36 PM	00:00	6.82 pH	14.26 °C	206.07 µS/cm	3.34 mg/L	1.20 NTU	2.0 mV	81.23 ft	0.10 PSU	130.00 ml/min
3/16/2021 2:40 PM	04:00	7.08 pH	14.29 °C	213.95 µS/cm	3.33 mg/L	1.92 NTU	1.2 mV	81.31 ft	0.10 PSU	130.00 ml/min
3/16/2021 2:44 PM	08:00	7.22 pH	14.49 °C	217.62 µS/cm	3.16 mg/L	2.40 NTU	0.3 mV	81.39 ft	0.10 PSU	130.00 ml/min
3/16/2021 2:48 PM	12:00	7.31 pH	14.58 °C	219.34 µS/cm	3.14 mg/L	2.64 NTU	0.5 mV	81.45 ft	0.10 PSU	130.00 ml/min
3/16/2021 2:52 PM	16:00	7.39 pH	14.63 °C	220.22 µS/cm	3.15 mg/L	1.66 NTU	1.0 mV	81.48 ft	0.10 PSU	130.00 ml/min
3/16/2021 2:56 PM	20:00	7.44 pH	14.69 °C	220.73 µS/cm	3.13 mg/L	1.38 NTU	1.8 mV	81.51 ft	0.11 PSU	130.00 ml/min
3/16/2021 3:00 PM	24:00	7.47 pH	14.67 °C	220.68 µS/cm	3.12 mg/L	1.20 NTU	2.9 mV	81.53 ft	0.11 PSU	130.00 ml/min
3/16/2021 3:04 PM	28:00	7.50 pH	14.70 °C	220.92 µS/cm	3.09 mg/L	1.02 NTU	3.8 mV	81.55 ft	0.11 PSU	130.00 ml/min
3/16/2021 3:08 PM	32:00	7.51 pH	14.64 °C	219.89 µS/cm	3.18 mg/L	0.79 NTU	4.8 mV	81.56 ft	0.10 PSU	130.00 ml/min

Samples

Sample ID:	Description:
GWA-2R	Metals, Inorganics, TDS
DUP-1	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/29/2021 10:34:54 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 130.27 ft Total Depth: 140.27 ft Initial Depth to Water: 76.3 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 135.27 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 6.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 10:34 AM	00:00	8.00 pH	13.35 °C	183.67 µS/cm	8.34 mg/L	13.30 NTU	60.2 mV	76.33 ft	0.09 PSU	120.00 ml/min
3/29/2021 10:38 AM	04:00	8.02 pH	14.14 °C	180.22 µS/cm	7.91 mg/L	10.36 NTU	46.4 mV	76.34 ft	0.09 PSU	120.00 ml/min
3/29/2021 10:42 AM	08:00	8.02 pH	14.38 °C	179.75 µS/cm	7.82 mg/L	9.11 NTU	44.0 mV	76.34 ft	0.09 PSU	120.00 ml/min
3/29/2021 10:46 AM	12:00	8.03 pH	14.58 °C	179.50 µS/cm	7.74 mg/L	7.79 NTU	42.4 mV	76.34 ft	0.09 PSU	120.00 ml/min
3/29/2021 10:50 AM	16:00	8.03 pH	14.53 °C	179.20 µS/cm	7.67 mg/L	6.38 NTU	40.9 mV	76.34 ft	0.08 PSU	120.00 ml/min
3/29/2021 10:54 AM	20:00	8.03 pH	14.54 °C	178.79 µS/cm	7.63 mg/L	5.64 NTU	40.5 mV	76.34 ft	0.08 PSU	120.00 ml/min
3/29/2021 10:58 AM	24:00	8.03 pH	14.53 °C	178.86 µS/cm	7.65 mg/L	5.09 NTU	39.8 mV	76.34 ft	0.08 PSU	120.00 ml/min
3/29/2021 11:02 AM	28:00	8.03 pH	14.60 °C	178.74 µS/cm	7.64 mg/L	4.38 NTU	39.9 mV	76.34 ft	0.08 PSU	120.00 ml/min
3/29/2021 11:06 AM	32:00	8.04 pH	14.54 °C	178.23 µS/cm	7.66 mg/L	4.04 NTU	38.8 mV	76.34 ft	0.08 PSU	120.00 ml/min
3/29/2021 11:10 AM	36:00	8.04 pH	14.51 °C	178.10 µS/cm	7.65 mg/L	3.62 NTU	38.1 mV	76.34 ft	0.08 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWA-3A	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/15/2021 2:44:36 PM
Project: Plant Bowen LF February 2021 (2)
Operator Name: Joe Booth

Location Name: GWA-4RZ Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 110.74 ft Total Depth: 120.74 ft Initial Depth to Water: 86.24 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 115.74 ft Estimated Total Volume Pumped: 12880 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 24.82 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters
 Complete Evacuation performed

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/15/2021 2:44 PM	00:00	7.34 pH	16.90 °C	444.53 µS/cm	8.00 mg/L	0.73 NTU	35.1 mV	86.24 ft	0.22 PSU	140.00 ml/min
3/15/2021 2:48 PM	04:00	6.98 pH	16.64 °C	454.43 µS/cm	1.09 mg/L	0.95 NTU	-24.6 mV	88.32 ft	0.22 PSU	140.00 ml/min
3/15/2021 2:52 PM	08:00	6.96 pH	16.52 °C	448.21 µS/cm	0.28 mg/L	0.58 NTU	-28.2 mV	89.33 ft	0.22 PSU	140.00 ml/min
3/15/2021 2:56 PM	12:00	7.02 pH	16.68 °C	446.72 µS/cm	0.22 mg/L	0.61 NTU	-40.4 mV	90.06 ft	0.22 PSU	140.00 ml/min
3/15/2021 3:00 PM	16:00	7.05 pH	16.68 °C	446.61 µS/cm	0.22 mg/L	0.30 NTU	-52.3 mV	90.73 ft	0.22 PSU	140.00 ml/min
3/15/2021 3:04 PM	20:00	7.09 pH	16.66 °C	446.08 µS/cm	0.21 mg/L	1.38 NTU	-60.1 mV	91.39 ft	0.22 PSU	140.00 ml/min
3/15/2021 3:08 PM	24:00	7.13 pH	17.22 °C	447.00 µS/cm	0.25 mg/L	0.74 NTU	-66.8 mV	91.72 ft	0.22 PSU	140.00 ml/min
3/15/2021 3:12 PM	28:00	7.16 pH	17.26 °C	443.42 µS/cm	0.25 mg/L	0.50 NTU	-69.4 mV	92.00 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:16 PM	32:00	7.18 pH	17.17 °C	442.81 µS/cm	0.26 mg/L	0.43 NTU	-71.9 mV	92.30 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:20 PM	36:00	7.19 pH	17.08 °C	443.42 µS/cm	0.28 mg/L	0.49 NTU	-74.3 mV	92.59 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:24 PM	40:00	7.21 pH	16.82 °C	443.00 µS/cm	0.30 mg/L	2.86 NTU	-73.6 mV	92.97 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:28 PM	44:00	7.22 pH	16.56 °C	443.97 µS/cm	0.32 mg/L	1.46 NTU	-73.6 mV	93.56 ft	0.22 PSU	140.00 ml/min
3/15/2021 3:32 PM	48:00	7.24 pH	16.27 °C	438.76 µS/cm	0.30 mg/L	1.12 NTU	-65.5 mV	94.57 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:36 PM	52:00	7.26 pH	16.18 °C	435.00 µS/cm	0.28 mg/L	0.74 NTU	-50.9 mV	96.20 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:40 PM	56:00	7.28 pH	16.16 °C	431.63 µS/cm	0.26 mg/L	0.68 NTU	-39.4 mV	97.58 ft	0.21 PSU	140.00 ml/min

3/15/2021 3:44 PM	01:00:00	7.29 pH	16.14 °C	429.91 µS/cm	0.22 mg/L	0.50 NTU	-31.7 mV	98.93 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:48 PM	01:04:00	7.29 pH	16.12 °C	429.58 µS/cm	0.21 mg/L	0.52 NTU	-26.6 mV	100.56 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:52 PM	01:08:00	7.29 pH	16.12 °C	429.62 µS/cm	0.21 mg/L	0.55 NTU	-24.7 mV	101.93 ft	0.21 PSU	140.00 ml/min
3/15/2021 3:56 PM	01:12:00	7.29 pH	16.12 °C	429.46 µS/cm	0.21 mg/L	0.72 NTU	-23.4 mV	103.42 ft	0.21 PSU	140.00 ml/min
3/15/2021 4:00 PM	01:16:00	7.29 pH	16.14 °C	429.42 µS/cm	0.22 mg/L	0.83 NTU	-22.3 mV	104.98 ft	0.21 PSU	140.00 ml/min
3/15/2021 4:04 PM	01:20:00	7.29 pH	16.27 °C	429.21 µS/cm	0.27 mg/L	1.12 NTU	-21.2 mV	106.31 ft	0.21 PSU	140.00 ml/min
3/15/2021 4:08 PM	01:24:00	7.29 pH	16.23 °C	429.40 µS/cm	0.31 mg/L	0.58 NTU	-19.8 mV	107.64 ft	0.21 PSU	140.00 ml/min
3/15/2021 4:12 PM	01:28:00	7.29 pH	16.18 °C	429.53 µS/cm	0.33 mg/L	0.73 NTU	-19.2 mV	109.16 ft	0.21 PSU	140.00 ml/min
3/15/2021 4:16 PM	01:32:00	7.29 pH	16.14 °C	430.29 µS/cm	0.35 mg/L	0.46 NTU	-18.9 mV	111.06 ft	0.21 PSU	140.00 ml/min

Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWA-4RZ

Report Properties
 Start Time = 2021-03-16 11:04:20
 Time Offset = -04:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO Concentration (mg/L) (789986)	RDO Saturation (%Sat) (789986)	Oxygen Partial Pressure (Torr) (789986)	Actual Conductivity (ÅµS/cm) (789301)	Temperature (Å°C) (789301)	Specific Conductivity (ÅµS/cm) (789301)	Salinity (PSU) (789301)	Total Dissolved Solids (ppt) (789301)	Resistivity (Î©-cm) (789301)	Density (g/cmÅ³) (789301)	Pressure (psi) (787061)	Depth (ft) (787061)	pH (pH) (21177)	pH mV (mV) (21177)	ORP (mV) (21177)	Barometric Pressure (mbar) (720817)	Temperature (Å°C) (720817)	Marked
3/16/2021 11:04	5.816842	54.51535	88.16657	324.1535	11.51346	436.6252	0.2102389	0.2838064	3084.958	0.9997185	-0.0899916	0.428903	7.408986	-25.26333	49.60921	993.7123	9.240777	
3/16/2021 11:04	5.809067	54.44461	88.0522	324.1535	11.51581	436.5988	0.2102267	0.2837892	3084.958	0.9997182	-0.08987856	0.4291637	7.408667	-25.24567	49.6236	993.7142	9.240721	
3/16/2021 11:04	5.801293	54.37387	87.93782	324.1535	11.51816	436.5723	0.2102145	0.283772	3084.958	0.999718	-0.08976552	0.4294244	7.408349	-25.22801	49.63799	993.7161	9.240664	
3/16/2021 11:04	5.793519	54.30313	87.82344	324.1535	11.52051	436.5458	0.2102022	0.2837548	3084.958	0.9997177	-0.08965248	0.4296852	7.408031	-25.21034	49.65238	993.718	9.240608	
3/16/2021 11:04	5.681389	53.30367	86.20225	324.1395	11.55928	436.0921	0.2099918	0.2834599	3085.092	0.9997134	-0.09162132	0.4251437	7.404578	-25.01616	49.75316	993.7009	9.257597	
3/16/2021 11:04	5.674119	53.23853	86.09671	324.1389	11.56162	436.0652	0.2099793	0.2834424	3085.096	0.9997131	-0.09170859	0.4249425	7.404328	-25.00217	49.76206	993.701	9.258198	
3/16/2021 11:04	5.66685	53.17339	85.99117	324.1385	11.56396	436.0382	0.2099669	0.2834249	3085.101	0.9997128	-0.09179585	0.4247412	7.404078	-24.98819	49.77095	993.701	9.2588	
3/16/2021 11:04	5.659579	53.10825	85.88564	324.1379	11.5663	436.0113	0.2099544	0.2834073	3085.106	0.9997125	-0.09188312	0.4245399	7.403828	-24.9742	49.77985	993.7011	9.2594	
3/16/2021 11:04	5.550391	52.12806	84.29531	324.0774	11.60496	435.4975	0.2097141	0.2830734	3085.682	0.9997082	-0.09642244	0.4140692	7.40124	-24.8324	49.8836	993.6735	9.268458	
3/16/2021 11:04	5.543252	52.06409	84.19154	324.0745	11.60746	435.4655	0.2096992	0.2830526	3085.71	0.9997079	-0.09666016	0.4135208	7.401052	-24.82206	49.8904	993.6719	9.269181	
3/16/2021 11:04	5.536113	52.00012	84.08778	324.0715	11.60996	435.4335	0.2096843	0.2830318	3085.739	0.9997076	-0.09689787	0.4129725	7.400866	-24.81172	49.89721	993.6704	9.269905	

Low-Flow Test Report:

Test Date / Time: 3/17/2021 12:56:06 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.75 ft Total Depth: 113.75 ft Initial Depth to Water: 77.96 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 108.75 ft Estimated Total Volume Pumped: 11360 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 8.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 4 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 12:56 PM	00:00	6.41 pH	15.61 °C	68.32 µS/cm	6.85 mg/L	3.78 NTU	147.7 mV	82.78 ft	0.03 PSU	160.00 ml/min
3/17/2021 1:00 PM	04:00	6.34 pH	15.65 °C	64.29 µS/cm	7.04 mg/L	2.31 NTU	133.4 mV	83.07 ft	0.03 PSU	160.00 ml/min
3/17/2021 1:04 PM	08:00	6.29 pH	15.65 °C	61.04 µS/cm	7.13 mg/L	2.04 NTU	129.4 mV	83.43 ft	0.03 PSU	160.00 ml/min
3/17/2021 1:08 PM	12:00	6.25 pH	15.65 °C	57.72 µS/cm	7.26 mg/L	2.06 NTU	125.8 mV	83.69 ft	0.03 PSU	160.00 ml/min
3/17/2021 1:12 PM	16:00	6.19 pH	15.65 °C	55.06 µS/cm	7.33 mg/L	1.77 NTU	124.0 mV	84.05 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:16 PM	20:00	6.14 pH	15.65 °C	52.16 µS/cm	7.38 mg/L	1.85 NTU	121.9 mV	84.33 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:20 PM	24:00	6.09 pH	15.65 °C	49.83 µS/cm	7.44 mg/L	1.59 NTU	121.3 mV	84.64 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:24 PM	28:00	6.07 pH	15.64 °C	48.08 µS/cm	7.49 mg/L	1.66 NTU	119.3 mV	84.84 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:28 PM	32:00	6.04 pH	15.64 °C	46.15 µS/cm	7.57 mg/L	1.55 NTU	117.8 mV	85.08 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:32 PM	36:00	6.03 pH	15.65 °C	44.51 µS/cm	7.77 mg/L	1.77 NTU	116.1 mV	85.33 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:36 PM	40:00	5.99 pH	15.65 °C	43.14 µS/cm	7.78 mg/L	1.63 NTU	115.6 mV	85.58 ft	0.02 PSU	160.00 ml/min
3/17/2021 1:40 PM	44:00	5.98 pH	15.58 °C	41.73 µS/cm	7.77 mg/L	1.49 NTU	113.7 mV	85.38 ft	0.02 PSU	120.00 ml/min
3/17/2021 1:44 PM	48:00	6.00 pH	15.56 °C	40.88 µS/cm	7.82 mg/L	1.57 NTU	111.7 mV	85.36 ft	0.02 PSU	120.00 ml/min
3/17/2021 1:48 PM	52:00	5.90 pH	15.64 °C	35.25 µS/cm	8.03 mg/L	1.32 NTU	112.1 mV	85.40 ft	0.02 PSU	120.00 ml/min
3/17/2021 1:52 PM	56:00	5.74 pH	15.65 °C	31.32 µS/cm	8.35 mg/L	1.68 NTU	115.0 mV	85.50 ft	0.01 PSU	120.00 ml/min

3/17/2021 1:56 PM	01:00:00	5.76 pH	15.65 °C	31.15 µS/cm	8.32 mg/L	1.18 NTU	113.7 mV	85.58 ft	0.01 PSU	120.00 ml/min
3/17/2021 2:00 PM	01:04:00	5.80 pH	15.65 °C	33.05 µS/cm	8.25 mg/L	1.42 NTU	111.9 mV	85.68 ft	0.01 PSU	120.00 ml/min
3/17/2021 2:04 PM	01:08:00	5.84 pH	15.67 °C	34.14 µS/cm	8.22 mg/L	1.26 NTU	110.7 mV	85.79 ft	0.01 PSU	120.00 ml/min
3/17/2021 2:08 PM	01:12:00	5.85 pH	15.68 °C	33.77 µS/cm	8.44 mg/L	1.10 NTU	108.8 mV	85.87 ft	0.01 PSU	120.00 ml/min
3/17/2021 2:12 PM	01:16:00	5.85 pH	15.70 °C	33.02 µS/cm	8.39 mg/L	1.47 NTU	108.2 mV	85.95 ft	0.01 PSU	120.00 ml/min
3/17/2021 2:16 PM	01:20:00	5.85 pH	15.70 °C	32.75 µS/cm	8.34 mg/L	1.18 NTU	107.6 mV	86.04 ft	0.01 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-5	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 2:33:27 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 101.37 ft Total Depth: 111.37 ft Initial Depth to Water: 71.9 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 106.37 ft Estimated Total Volume Pumped: 5120 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Lowered pump rate to 110 mL/min at 24:00 to stabilize and lower upward trending turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 2:33 PM	00:00	7.11 pH	15.39 °C	134.46 µS/cm	6.73 mg/L	1.26 NTU	27.0 mV	72.12 ft	0.06 PSU	140.00 ml/min
3/17/2021 2:37 PM	04:00	7.26 pH	15.39 °C	133.64 µS/cm	7.05 mg/L	1.38 NTU	22.0 mV	72.12 ft	0.06 PSU	140.00 ml/min
3/17/2021 2:41 PM	08:00	7.34 pH	15.38 °C	136.48 µS/cm	7.12 mg/L	1.33 NTU	20.1 mV	72.13 ft	0.06 PSU	140.00 ml/min
3/17/2021 2:45 PM	12:00	7.40 pH	15.35 °C	138.11 µS/cm	7.16 mg/L	1.75 NTU	19.3 mV	72.14 ft	0.07 PSU	140.00 ml/min
3/17/2021 2:49 PM	16:00	7.43 pH	15.34 °C	138.79 µS/cm	7.19 mg/L	2.38 NTU	18.6 mV	72.15 ft	0.07 PSU	140.00 ml/min
3/17/2021 2:53 PM	20:00	7.45 pH	15.32 °C	139.05 µS/cm	7.22 mg/L	2.87 NTU	18.0 mV	72.15 ft	0.07 PSU	140.00 ml/min
3/17/2021 2:57 PM	24:00	7.47 pH	15.30 °C	138.92 µS/cm	7.23 mg/L	3.29 NTU	17.8 mV	72.15 ft	0.07 PSU	110.00 ml/min
3/17/2021 3:01 PM	28:00	7.49 pH	15.16 °C	139.50 µS/cm	7.26 mg/L	3.32 NTU	17.5 mV	72.11 ft	0.07 PSU	110.00 ml/min
3/17/2021 3:05 PM	32:00	7.52 pH	15.08 °C	141.29 µS/cm	7.30 mg/L	3.60 NTU	17.0 mV	72.09 ft	0.07 PSU	110.00 ml/min
3/17/2021 3:09 PM	36:00	7.55 pH	15.07 °C	142.78 µS/cm	7.32 mg/L	3.29 NTU	17.0 mV	72.09 ft	0.07 PSU	110.00 ml/min
3/17/2021 3:13 PM	40:00	7.57 pH	15.05 °C	141.66 µS/cm	7.33 mg/L	3.02 NTU	16.8 mV	72.09 ft	0.07 PSU	110.00 ml/min

Samples

Sample ID:	Description:
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GWC-6

Metals, Inorganics, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/17/2021 1:25:16 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-6RZ Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 102.8 ft Total Depth: 112.8 ft Initial Depth to Water: 75.61 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 107.8 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 1:25 PM	00:00	6.63 pH	15.19 °C	114.53 µS/cm	5.44 mg/L	1.24 NTU	15.2 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:29 PM	04:00	6.79 pH	15.26 °C	108.84 µS/cm	6.46 mg/L	1.42 NTU	13.7 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:33 PM	08:00	6.90 pH	15.30 °C	105.99 µS/cm	6.97 mg/L	1.82 NTU	13.5 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:37 PM	12:00	6.96 pH	15.30 °C	105.29 µS/cm	7.16 mg/L	1.55 NTU	14.2 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:41 PM	16:00	6.99 pH	15.35 °C	105.05 µS/cm	7.24 mg/L	1.58 NTU	14.6 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:45 PM	20:00	7.01 pH	15.35 °C	104.78 µS/cm	7.31 mg/L	1.53 NTU	15.5 mV	75.64 ft	0.05 PSU	120.00 ml/min
3/17/2021 1:49 PM	24:00	7.03 pH	15.41 °C	104.63 µS/cm	7.36 mg/L	1.17 NTU	15.7 mV	75.64 ft	0.05 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-6RZ	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 3:16:43 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-7Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 107 ft Total Depth: 117 ft Initial Depth to Water: 56.67 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 112 ft Estimated Total Volume Pumped: 8640 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 3:16 PM	00:00	6.27 pH	15.52 °C	0.00 µS/cm	9.01 mg/L	0.32 NTU	67.3 mV	56.75 ft	0.00 PSU	120.00 ml/min
3/17/2021 3:20 PM	04:00	6.96 pH	15.24 °C	232.19 µS/cm	0.33 mg/L	0.55 NTU	-31.9 mV	56.76 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:24 PM	08:00	7.12 pH	15.16 °C	233.95 µS/cm	0.19 mg/L	0.42 NTU	-29.7 mV	56.77 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:28 PM	12:00	7.19 pH	15.15 °C	235.63 µS/cm	0.22 mg/L	0.75 NTU	-26.5 mV	56.77 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:32 PM	16:00	7.24 pH	15.16 °C	236.63 µS/cm	0.29 mg/L	0.90 NTU	-24.2 mV	56.78 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:36 PM	20:00	7.29 pH	15.17 °C	236.85 µS/cm	0.40 mg/L	0.87 NTU	-20.5 mV	56.78 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:40 PM	24:00	7.32 pH	15.16 °C	236.74 µS/cm	0.54 mg/L	0.91 NTU	-19.0 mV	56.78 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:44 PM	28:00	7.36 pH	15.15 °C	236.53 µS/cm	0.71 mg/L	0.92 NTU	-17.4 mV	56.78 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:48 PM	32:00	7.38 pH	15.16 °C	236.28 µS/cm	0.88 mg/L	1.15 NTU	-17.1 mV	56.78 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:52 PM	36:00	7.41 pH	15.16 °C	235.95 µS/cm	1.06 mg/L	1.03 NTU	-16.0 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 3:56 PM	40:00	7.43 pH	15.16 °C	235.73 µS/cm	1.23 mg/L	1.20 NTU	-14.5 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:00 PM	44:00	7.44 pH	15.18 °C	235.44 µS/cm	1.38 mg/L	1.26 NTU	-15.3 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:04 PM	48:00	7.46 pH	15.19 °C	235.27 µS/cm	1.53 mg/L	1.45 NTU	-14.6 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:08 PM	52:00	7.47 pH	15.20 °C	235.16 µS/cm	1.64 mg/L	1.35 NTU	-14.3 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:12 PM	56:00	7.49 pH	15.21 °C	234.94 µS/cm	1.76 mg/L	1.43 NTU	-12.8 mV	56.79 ft	0.11 PSU	120.00 ml/min

3/17/2021 4:16 PM	01:00:00	7.50 pH	15.20 °C	234.80 µS/cm	1.88 mg/L	1.60 NTU	-12.6 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:20 PM	01:04:00	7.51 pH	15.22 °C	234.66 µS/cm	1.98 mg/L	1.55 NTU	-12.8 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:24 PM	01:08:00	7.52 pH	15.22 °C	234.44 µS/cm	2.08 mg/L	1.52 NTU	-12.6 mV	56.79 ft	0.11 PSU	120.00 ml/min
3/17/2021 4:28 PM	01:12:00	7.52 pH	15.23 °C	234.37 µS/cm	2.15 mg/L	1.41 NTU	-11.8 mV	56.79 ft	0.11 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-7Z	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 3:06:05 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-8RR Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 101.83 ft Total Depth: 111.83 ft Initial Depth to Water: 46.32 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 106.83 ft Estimated Total Volume Pumped: 9520 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 3:06 PM	00:00	7.28 pH	14.86 °C	261.44 µS/cm	2.37 mg/L	2.68 NTU	73.3 mV	46.32 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:10 PM	04:00	7.64 pH	15.05 °C	256.07 µS/cm	6.71 mg/L	3.11 NTU	64.7 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:14 PM	08:00	7.74 pH	14.96 °C	255.76 µS/cm	6.90 mg/L	2.56 NTU	62.4 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:18 PM	12:00	7.77 pH	14.88 °C	256.01 µS/cm	7.04 mg/L	2.44 NTU	60.5 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:22 PM	16:00	7.78 pH	14.83 °C	256.34 µS/cm	7.10 mg/L	4.85 NTU	59.1 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:26 PM	20:00	7.79 pH	14.79 °C	256.13 µS/cm	7.06 mg/L	3.19 NTU	57.9 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:30 PM	24:00	7.80 pH	14.75 °C	256.24 µS/cm	6.96 mg/L	2.88 NTU	56.8 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:34 PM	28:00	7.81 pH	14.70 °C	256.12 µS/cm	6.96 mg/L	3.35 NTU	55.4 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:38 PM	32:00	7.81 pH	14.65 °C	256.12 µS/cm	6.99 mg/L	2.61 NTU	54.7 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:42 PM	36:00	7.84 pH	14.38 °C	253.50 µS/cm	7.05 mg/L	2.15 NTU	53.4 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:46 PM	40:00	7.91 pH	14.02 °C	257.73 µS/cm	7.81 mg/L	2.57 NTU	51.9 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:50 PM	44:00	7.94 pH	14.71 °C	257.70 µS/cm	7.79 mg/L	3.67 NTU	50.5 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:54 PM	48:00	7.99 pH	14.81 °C	257.09 µS/cm	8.42 mg/L	2.34 NTU	49.4 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 3:58 PM	52:00	8.05 pH	14.83 °C	257.12 µS/cm	8.72 mg/L	1.68 NTU	48.1 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 4:02 PM	56:00	8.06 pH	14.85 °C	257.25 µS/cm	8.83 mg/L	1.55 NTU	47.4 mV	46.37 ft	0.12 PSU	140.00 ml/min

3/17/2021 4:06 PM	01:00:00	8.07 pH	14.84 °C	257.05 µS/cm	8.83 mg/L	1.25 NTU	46.9 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 4:10 PM	01:04:00	8.07 pH	14.87 °C	256.42 µS/cm	8.83 mg/L	1.76 NTU	46.5 mV	46.37 ft	0.12 PSU	140.00 ml/min
3/17/2021 4:14 PM	01:08:00	8.08 pH	14.88 °C	256.31 µS/cm	8.81 mg/L	2.15 NTU	45.7 mV	46.37 ft	0.12 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWC-8RR	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 9:31:52 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-8Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.4 ft Total Depth: 76.4 ft Initial Depth to Water: 46.36 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 71.4 ft Estimated Total Volume Pumped: 2640 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.43 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 9:31 AM	00:00	6.95 pH	15.56 °C	268.33 µS/cm	7.51 mg/L	15.40 NTU	97.1 mV	46.36 ft	0.13 PSU	110.00 ml/min
3/18/2021 9:35 AM	04:00	6.53 pH	15.63 °C	176.57 µS/cm	8.16 mg/L	4.96 NTU	82.3 mV	46.72 ft	0.08 PSU	110.00 ml/min
3/18/2021 9:39 AM	08:00	6.46 pH	15.65 °C	168.32 µS/cm	8.12 mg/L	3.31 NTU	80.5 mV	46.76 ft	0.08 PSU	110.00 ml/min
3/18/2021 9:43 AM	12:00	6.43 pH	15.64 °C	166.33 µS/cm	8.11 mg/L	3.41 NTU	74.7 mV	46.79 ft	0.08 PSU	110.00 ml/min
3/18/2021 9:47 AM	16:00	6.43 pH	15.69 °C	163.49 µS/cm	8.07 mg/L	2.41 NTU	72.0 mV	46.79 ft	0.08 PSU	110.00 ml/min
3/18/2021 9:51 AM	20:00	6.43 pH	15.64 °C	162.81 µS/cm	8.05 mg/L	2.69 NTU	69.3 mV	46.79 ft	0.08 PSU	110.00 ml/min
3/18/2021 9:55 AM	24:00	6.45 pH	15.56 °C	162.89 µS/cm	7.92 mg/L	2.22 NTU	67.3 mV	46.79 ft	0.08 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWC-8Z	Metals, Inorganic, TDS
DUP-2	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 10:45:57 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.16 ft Total Depth: 77.16 ft Initial Depth to Water: 40.79 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 61.16 ft Estimated Total Volume Pumped: 9300 ml Flow Cell Volume: 90 ml Final Flow Rate: 155 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 10:45 AM	00:00	5.50 pH	15.94 °C	114.61 µS/cm	6.69 mg/L	1.65 NTU	100.7 mV	40.79 ft	0.05 PSU	155.00 ml/min
3/18/2021 10:49 AM	04:00	5.09 pH	15.92 °C	76.59 µS/cm	6.64 mg/L	3.46 NTU	86.1 mV	40.81 ft	0.04 PSU	155.00 ml/min
3/18/2021 10:53 AM	08:00	4.99 pH	15.92 °C	70.35 µS/cm	6.62 mg/L	2.46 NTU	83.4 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 10:57 AM	12:00	4.91 pH	15.87 °C	67.37 µS/cm	6.61 mg/L	1.97 NTU	82.3 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:01 AM	16:00	4.88 pH	15.88 °C	67.01 µS/cm	6.60 mg/L	1.80 NTU	81.4 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:05 AM	20:00	4.86 pH	15.90 °C	66.53 µS/cm	6.60 mg/L	2.06 NTU	80.7 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:09 AM	24:00	4.84 pH	15.91 °C	65.97 µS/cm	6.59 mg/L	1.96 NTU	79.0 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:13 AM	28:00	4.82 pH	15.92 °C	65.32 µS/cm	6.59 mg/L	1.51 NTU	79.7 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:17 AM	32:00	4.81 pH	16.00 °C	64.98 µS/cm	6.58 mg/L	1.72 NTU	79.3 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:21 AM	36:00	4.80 pH	16.01 °C	64.75 µS/cm	6.57 mg/L	1.28 NTU	79.2 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:25 AM	40:00	4.79 pH	16.01 °C	64.63 µS/cm	6.58 mg/L	1.35 NTU	79.0 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:29 AM	44:00	4.79 pH	16.05 °C	64.60 µS/cm	6.60 mg/L	1.42 NTU	78.8 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:33 AM	48:00	4.79 pH	16.05 °C	64.52 µS/cm	6.61 mg/L	1.02 NTU	78.4 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:37 AM	52:00	4.78 pH	16.13 °C	64.48 µS/cm	6.60 mg/L	1.34 NTU	78.9 mV	40.81 ft	0.03 PSU	155.00 ml/min
3/18/2021 11:41 AM	56:00	4.77 pH	16.09 °C	64.39 µS/cm	6.60 mg/L	1.07 NTU	78.8 mV	40.81 ft	0.03 PSU	155.00 ml/min

3/18/2021 11:45 AM	01:00:00	4.78 pH	16.09 °C	64.35 µS/cm	6.62 mg/L	1.19 NTU	78.7 mV	40.81 ft	0.03 PSU	155.00 ml/min
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Samples

Sample ID:	Description:
GWC-9	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 3:04:39 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.81 ft Total Depth: 71.81 ft Initial Depth to Water: 33.86 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 66.81 ft Estimated Total Volume Pumped: 7800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 3:04 PM	00:00	6.08 pH	16.50 °C	170.10 µS/cm	7.33 mg/L	1.42 NTU	50.7 mV	33.86 ft	0.08 PSU	150.00 ml/min
3/18/2021 3:08 PM	04:00	6.09 pH	16.32 °C	189.62 µS/cm	7.14 mg/L	1.09 NTU	48.9 mV	33.99 ft	0.09 PSU	150.00 ml/min
3/18/2021 3:12 PM	08:00	6.13 pH	16.28 °C	212.84 µS/cm	7.02 mg/L	1.74 NTU	48.4 mV	33.99 ft	0.10 PSU	150.00 ml/min
3/18/2021 3:16 PM	12:00	6.19 pH	16.14 °C	243.14 µS/cm	6.98 mg/L	1.25 NTU	47.4 mV	33.99 ft	0.12 PSU	150.00 ml/min
3/18/2021 3:20 PM	16:00	6.24 pH	16.19 °C	265.23 µS/cm	6.97 mg/L	1.27 NTU	46.7 mV	33.99 ft	0.13 PSU	150.00 ml/min
3/18/2021 3:24 PM	20:00	6.30 pH	16.18 °C	288.21 µS/cm	7.02 mg/L	1.67 NTU	45.9 mV	33.99 ft	0.14 PSU	150.00 ml/min
3/18/2021 3:28 PM	24:00	6.37 pH	16.09 °C	316.73 µS/cm	7.05 mg/L	0.93 NTU	44.8 mV	33.99 ft	0.15 PSU	150.00 ml/min
3/18/2021 3:32 PM	28:00	6.43 pH	16.03 °C	339.30 µS/cm	7.19 mg/L	0.88 NTU	44.3 mV	33.99 ft	0.16 PSU	150.00 ml/min
3/18/2021 3:36 PM	32:00	6.50 pH	16.11 °C	360.23 µS/cm	7.35 mg/L	0.67 NTU	43.2 mV	33.99 ft	0.17 PSU	150.00 ml/min
3/18/2021 3:40 PM	36:00	6.55 pH	16.01 °C	371.42 µS/cm	7.51 mg/L	0.54 NTU	43.3 mV	33.99 ft	0.18 PSU	150.00 ml/min
3/18/2021 3:44 PM	40:00	6.60 pH	16.00 °C	380.83 µS/cm	7.64 mg/L	0.63 NTU	43.1 mV	33.99 ft	0.18 PSU	150.00 ml/min
3/18/2021 3:48 PM	44:00	6.64 pH	15.92 °C	388.82 µS/cm	7.73 mg/L	0.76 NTU	42.0 mV	33.99 ft	0.19 PSU	150.00 ml/min
3/18/2021 3:52 PM	48:00	6.66 pH	15.83 °C	392.50 µS/cm	7.79 mg/L	0.71 NTU	41.9 mV	33.99 ft	0.19 PSU	150.00 ml/min
3/18/2021 3:56 PM	52:00	6.69 pH	15.78 °C	393.45 µS/cm	7.84 mg/L	0.60 NTU	42.0 mV	33.99 ft	0.19 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWC-10	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 12:21:11 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-10R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 90.2 ft Total Depth: 100.2 ft Initial Depth to Water: 34.03 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 95.2 ft Estimated Total Volume Pumped: 8556.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 12:21 PM	00:00	6.99 pH	15.28 °C	498.73 µS/cm	1.43 mg/L	0.88 NTU	-16.5 mV	34.03 ft	0.24 PSU	140.00 ml/min
3/18/2021 12:25 PM	04:00	7.18 pH	15.64 °C	544.54 µS/cm	0.52 mg/L	1.10 NTU	-2.3 mV	34.06 ft	0.27 PSU	140.00 ml/min
3/18/2021 12:29 PM	08:00	7.30 pH	15.70 °C	539.94 µS/cm	2.03 mg/L	1.09 NTU	3.2 mV	34.06 ft	0.26 PSU	140.00 ml/min
3/18/2021 12:33 PM	12:00	7.34 pH	15.68 °C	533.33 µS/cm	3.11 mg/L	1.07 NTU	4.2 mV	34.06 ft	0.26 PSU	140.00 ml/min
3/18/2021 12:37 PM	16:00	7.40 pH	15.70 °C	530.85 µS/cm	4.05 mg/L	1.34 NTU	2.7 mV	34.06 ft	0.26 PSU	140.00 ml/min
3/18/2021 12:41 PM	20:00	7.44 pH	15.65 °C	526.54 µS/cm	4.80 mg/L	0.90 NTU	2.0 mV	34.06 ft	0.26 PSU	140.00 ml/min
3/18/2021 12:45 PM	24:00	7.47 pH	15.66 °C	523.57 µS/cm	5.38 mg/L	0.83 NTU	1.7 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 12:49 PM	28:00	7.48 pH	15.69 °C	519.95 µS/cm	5.85 mg/L	0.95 NTU	2.4 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 12:53 PM	32:00	7.50 pH	15.73 °C	517.49 µS/cm	6.11 mg/L	0.78 NTU	2.8 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 12:57 PM	36:00	7.50 pH	15.76 °C	514.03 µS/cm	6.38 mg/L	0.93 NTU	3.5 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 1:01 PM	40:00	7.51 pH	15.78 °C	511.77 µS/cm	6.52 mg/L	1.06 NTU	3.9 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 1:05 PM	44:00	7.52 pH	15.74 °C	509.62 µS/cm	6.70 mg/L	0.74 NTU	4.7 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 1:09 PM	48:00	7.52 pH	15.78 °C	507.07 µS/cm	6.81 mg/L	0.53 NTU	5.2 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 1:13 PM	52:00	7.52 pH	15.78 °C	506.18 µS/cm	6.92 mg/L	1.03 NTU	5.7 mV	34.06 ft	0.25 PSU	140.00 ml/min
3/18/2021 1:14 PM	53:07	7.53 pH	15.83 °C	502.36 µS/cm	6.94 mg/L	1.03 NTU	-0.7 mV	34.06 ft	0.24 PSU	140.00 ml/min

3/18/2021 1:18 PM	57:07	7.52 pH	15.84 °C	500.13 µS/cm	7.06 mg/L	0.87 NTU	-0.2 mV	34.06 ft	0.24 PSU	140.00 ml/min
3/18/2021 1:22 PM	01:01:07	7.52 pH	15.84 °C	501.25 µS/cm	7.15 mg/L	1.02 NTU	6.7 mV	34.06 ft	0.24 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWC-10R	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/19/2021 8:49:47 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.25 ft Total Depth: 47.35 ft Initial Depth to Water: 23.82 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 42.35 ft Estimated Total Volume Pumped: 9600 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/19/2021 8:49 AM	00:00	6.19 pH	15.29 °C	92.20 µS/cm	4.36 mg/L	4.32 NTU	95.9 mV	23.82 ft	0.04 PSU	160.00 ml/min
3/19/2021 8:53 AM	04:00	6.18 pH	15.39 °C	90.54 µS/cm	4.35 mg/L	2.43 NTU	82.9 mV	23.87 ft	0.04 PSU	160.00 ml/min
3/19/2021 8:57 AM	08:00	6.20 pH	15.47 °C	92.73 µS/cm	4.31 mg/L	1.90 NTU	79.4 mV	23.87 ft	0.04 PSU	160.00 ml/min
3/19/2021 9:01 AM	12:00	6.22 pH	15.51 °C	95.68 µS/cm	4.11 mg/L	1.68 NTU	77.3 mV	23.87 ft	0.04 PSU	160.00 ml/min
3/19/2021 9:05 AM	16:00	6.24 pH	15.51 °C	99.45 µS/cm	3.97 mg/L	1.56 NTU	75.5 mV	23.87 ft	0.05 PSU	160.00 ml/min
3/19/2021 9:09 AM	20:00	6.28 pH	15.55 °C	107.82 µS/cm	3.99 mg/L	2.03 NTU	69.2 mV	23.87 ft	0.05 PSU	160.00 ml/min
3/19/2021 9:13 AM	24:00	6.39 pH	15.58 °C	122.62 µS/cm	4.20 mg/L	2.01 NTU	63.9 mV	23.87 ft	0.06 PSU	160.00 ml/min
3/19/2021 9:17 AM	28:00	6.55 pH	15.57 °C	138.84 µS/cm	4.48 mg/L	1.65 NTU	59.3 mV	23.87 ft	0.07 PSU	160.00 ml/min
3/19/2021 9:21 AM	32:00	6.66 pH	15.64 °C	153.93 µS/cm	4.78 mg/L	0.93 NTU	56.8 mV	23.87 ft	0.07 PSU	160.00 ml/min
3/19/2021 9:25 AM	36:00	6.77 pH	15.69 °C	165.47 µS/cm	5.00 mg/L	1.42 NTU	55.1 mV	23.87 ft	0.08 PSU	160.00 ml/min
3/19/2021 9:29 AM	40:00	6.84 pH	15.65 °C	173.83 µS/cm	5.15 mg/L	1.44 NTU	53.2 mV	23.87 ft	0.08 PSU	160.00 ml/min
3/19/2021 9:33 AM	44:00	6.90 pH	15.65 °C	180.39 µS/cm	5.26 mg/L	0.88 NTU	51.4 mV	23.87 ft	0.09 PSU	160.00 ml/min
3/19/2021 9:37 AM	48:00	6.95 pH	15.65 °C	185.53 µS/cm	5.35 mg/L	0.65 NTU	50.4 mV	23.87 ft	0.09 PSU	160.00 ml/min
3/19/2021 9:41 AM	52:00	6.99 pH	15.68 °C	189.50 µS/cm	5.42 mg/L	0.44 NTU	49.6 mV	23.87 ft	0.09 PSU	160.00 ml/min
3/19/2021 9:45 AM	56:00	7.03 pH	15.74 °C	194.54 µS/cm	5.47 mg/L	0.76 NTU	48.9 mV	23.87 ft	0.09 PSU	160.00 ml/min

3/19/2021 9:49 AM	01:00:00	7.05 pH	15.76 °C	198.62 µS/cm	5.52 mg/L	1.10 NTU	48.2 mV	23.87 ft	0.09 PSU	160.00 ml/min
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Samples

Sample ID:	Description:
GWC-11	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/19/2021 10:07:06 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-11R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73.2 ft Total Depth: 83.2 ft Initial Depth to Water: 23.72 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 78.3 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/19/2021 10:07 AM	00:00	7.41 pH	14.43 °C	283.53 µS/cm	2.39 mg/L	9.44 NTU	0.5 mV	23.72 ft	0.14 PSU	150.00 ml/min
3/19/2021 10:11 AM	04:00	7.55 pH	15.51 °C	300.15 µS/cm	4.10 mg/L	8.35 NTU	22.7 mV	23.84 ft	0.14 PSU	150.00 ml/min
3/19/2021 10:15 AM	08:00	7.63 pH	15.57 °C	304.49 µS/cm	5.74 mg/L	7.30 NTU	34.9 mV	23.84 ft	0.15 PSU	150.00 ml/min
3/19/2021 10:19 AM	12:00	7.63 pH	15.52 °C	307.70 µS/cm	5.97 mg/L	4.03 NTU	39.0 mV	23.84 ft	0.15 PSU	150.00 ml/min
3/19/2021 10:23 AM	16:00	7.64 pH	15.63 °C	308.54 µS/cm	6.00 mg/L	2.25 NTU	41.1 mV	23.84 ft	0.15 PSU	150.00 ml/min
3/19/2021 10:27 AM	20:00	7.64 pH	15.46 °C	309.58 µS/cm	6.09 mg/L	1.51 NTU	42.5 mV	23.84 ft	0.15 PSU	150.00 ml/min
3/19/2021 10:31 AM	24:00	7.64 pH	15.47 °C	310.86 µS/cm	6.12 mg/L	1.31 NTU	43.5 mV	23.84 ft	0.15 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWC-11R	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 5/26/2021 9:09:50 AM

Project: Bowen May 2021 LF Resample

Operator Name: Joe Booth

Location Name: GWC-11R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73.2 ft Total Depth: 83.2 ft Initial Depth to Water: 23.09 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 78.3 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2.0 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/26/2021 9:09 AM	00:00	7.57 pH	17.39 °C	264.35 µS/cm	6.37 mg/L	7.43 NTU	76.3 mV	23.09 ft	0.13 PSU	150.00 ml/min
5/26/2021 9:13 AM	04:00	7.56 pH	17.39 °C	263.27 µS/cm	6.43 mg/L	2.41 NTU	68.9 mV	23.16 ft	0.13 PSU	150.00 ml/min
5/26/2021 9:17 AM	08:00	7.55 pH	17.43 °C	264.54 µS/cm	6.47 mg/L	1.22 NTU	67.5 mV	23.16 ft	0.13 PSU	150.00 ml/min
5/26/2021 9:21 AM	12:00	7.54 pH	17.49 °C	265.38 µS/cm	6.50 mg/L	0.62 NTU	66.6 mV	23.17 ft	0.13 PSU	150.00 ml/min
5/26/2021 9:25 AM	16:00	7.55 pH	17.64 °C	265.68 µS/cm	6.52 mg/L	0.37 NTU	66.0 mV	23.17 ft	0.13 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWC-11R	Antimony
DUP-1	Antimony, Barium, Chromium, Sulfate

Low-Flow Test Report:

Test Date / Time: 3/19/2021 9:54:59 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.03 ft Total Depth: 54.03 ft Initial Depth to Water: 22.85 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 49.03 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.43 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/19/2021 9:54 AM	00:00	6.27 pH	15.21 °C	110.40 µS/cm	0.43 mg/L	1.53 NTU	8.2 mV	23.26 ft	0.05 PSU	120.00 ml/min
3/19/2021 9:58 AM	04:00	6.28 pH	15.39 °C	110.68 µS/cm	0.35 mg/L	1.53 NTU	6.5 mV	23.28 ft	0.05 PSU	120.00 ml/min
3/19/2021 10:02 AM	08:00	6.28 pH	15.53 °C	111.44 µS/cm	0.26 mg/L	1.61 NTU	5.3 mV	23.28 ft	0.05 PSU	120.00 ml/min
3/19/2021 10:06 AM	12:00	6.29 pH	15.57 °C	111.83 µS/cm	0.25 mg/L	1.27 NTU	3.9 mV	23.28 ft	0.05 PSU	120.00 ml/min
3/19/2021 10:10 AM	16:00	6.30 pH	15.62 °C	112.77 µS/cm	0.23 mg/L	1.41 NTU	2.4 mV	23.28 ft	0.05 PSU	120.00 ml/min
3/19/2021 10:14 AM	20:00	6.31 pH	15.66 °C	113.37 µS/cm	0.23 mg/L	1.41 NTU	1.1 mV	23.28 ft	0.05 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-12	Metals, Inorganics, TDS
DUP-3	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 1:46:47 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.8 ft Total Depth: 84.8 ft Initial Depth to Water: 32.21 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 79.8 ft Estimated Total Volume Pumped: 10800 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 1:46 PM	00:00	7.18 pH	19.31 °C	300.23 µS/cm	2.72 mg/L	4.02 NTU	-61.4 mV	32.25 ft	0.14 PSU	120.00 ml/min
3/18/2021 1:50 PM	04:00	7.16 pH	18.29 °C	261.87 µS/cm	2.16 mg/L	4.55 NTU	-32.6 mV	32.26 ft	0.13 PSU	120.00 ml/min
3/18/2021 1:54 PM	08:00	7.24 pH	18.66 °C	232.43 µS/cm	3.51 mg/L	6.71 NTU	2.5 mV	32.26 ft	0.11 PSU	120.00 ml/min
3/18/2021 1:58 PM	12:00	7.28 pH	18.81 °C	231.90 µS/cm	3.89 mg/L	7.61 NTU	19.6 mV	32.26 ft	0.11 PSU	120.00 ml/min
3/18/2021 2:02 PM	16:00	7.28 pH	18.87 °C	236.76 µS/cm	4.00 mg/L	6.92 NTU	25.2 mV	32.26 ft	0.11 PSU	120.00 ml/min
3/18/2021 2:06 PM	20:00	7.28 pH	18.84 °C	240.25 µS/cm	4.05 mg/L	5.91 NTU	28.6 mV	32.26 ft	0.11 PSU	120.00 ml/min
3/18/2021 2:10 PM	24:00	7.28 pH	18.82 °C	242.69 µS/cm	4.10 mg/L	5.68 NTU	30.0 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:14 PM	28:00	7.28 pH	18.59 °C	242.40 µS/cm	4.07 mg/L	5.27 NTU	31.8 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:18 PM	32:00	7.28 pH	18.24 °C	246.74 µS/cm	4.20 mg/L	5.24 NTU	33.0 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:22 PM	36:00	7.28 pH	18.11 °C	246.69 µS/cm	4.21 mg/L	5.36 NTU	33.8 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:26 PM	40:00	7.28 pH	18.55 °C	248.22 µS/cm	4.20 mg/L	5.47 NTU	34.4 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:30 PM	44:00	7.27 pH	18.78 °C	248.58 µS/cm	4.21 mg/L	5.70 NTU	35.0 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:34 PM	48:00	7.28 pH	18.62 °C	249.16 µS/cm	4.24 mg/L	5.73 NTU	35.9 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:38 PM	52:00	7.28 pH	18.28 °C	248.96 µS/cm	4.25 mg/L	6.37 NTU	36.6 mV	32.26 ft	0.12 PSU	120.00 ml/min
3/18/2021 2:42 PM	56:00	7.28 pH	17.96 °C	250.81 µS/cm	4.29 mg/L	6.11 NTU	37.4 mV	32.26 ft	0.12 PSU	120.00 ml/min

3/18/2021 2:46 PM	01:00:00	7.27 pH	18.51 °C	257.76 µS/cm	4.30 mg/L	6.47 NTU	37.7 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 2:50 PM	01:04:00	7.27 pH	18.66 °C	257.99 µS/cm	4.27 mg/L	8.06 NTU	38.3 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 2:54 PM	01:08:00	7.28 pH	18.83 °C	257.49 µS/cm	4.25 mg/L	7.27 NTU	38.2 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 2:58 PM	01:12:00	7.28 pH	18.52 °C	254.26 µS/cm	4.30 mg/L	6.82 NTU	38.4 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:02 PM	01:16:00	7.28 pH	18.98 °C	252.11 µS/cm	4.30 mg/L	5.82 NTU	38.3 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:06 PM	01:20:00	7.29 pH	18.47 °C	248.88 µS/cm	4.31 mg/L	6.06 NTU	39.0 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:10 PM	01:24:00	7.29 pH	18.77 °C	246.79 µS/cm	4.30 mg/L	5.73 NTU	39.0 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:14 PM	01:28:00	7.29 pH	18.83 °C	244.82 µS/cm	4.29 mg/L	4.96 NTU	39.4 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:18 PM	01:32:00	7.29 pH	18.48 °C	244.68 µS/cm	4.33 mg/L	4.91 NTU	39.6 mV	32.26 ft	0.12 PSU	100.00 ml/min
3/18/2021 3:22 PM	01:36:00	7.30 pH	18.80 °C	244.90 µS/cm	4.30 mg/L	4.82 NTU	39.6 mV	32.26 ft	0.12 PSU	100.00 ml/min

Samples

Sample ID:	Description:
GWC-13	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 10:24:54 AM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-13RZ Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.53 ft Total Depth: 104.53 ft Initial Depth to Water: 55.86 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 99.53 ft Estimated Total Volume Pumped: 21120 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 38.82 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 7 liters. WL dropped below top of screen with no stabilization. Complete evacuation method initiated. Sample to be collected 3/19.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 10:24 AM	00:00	7.34 pH	16.59 °C	446.86 µS/cm	0.77 mg/L	1.33 NTU	75.6 mV	67.40 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:28 AM	04:00	7.32 pH	16.68 °C	453.69 µS/cm	0.81 mg/L	1.09 NTU	58.1 mV	68.80 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:32 AM	08:00	7.30 pH	16.73 °C	452.99 µS/cm	0.87 mg/L	1.12 NTU	51.3 mV	69.10 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:36 AM	12:00	7.29 pH	16.73 °C	452.41 µS/cm	0.92 mg/L	1.03 NTU	47.9 mV	69.70 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:40 AM	16:00	7.29 pH	16.73 °C	451.99 µS/cm	0.99 mg/L	1.20 NTU	45.4 mV	70.67 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:44 AM	20:00	7.29 pH	16.66 °C	452.82 µS/cm	1.04 mg/L	1.35 NTU	44.0 mV	71.34 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:48 AM	24:00	7.28 pH	16.59 °C	453.05 µS/cm	1.09 mg/L	0.98 NTU	42.9 mV	72.07 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:52 AM	28:00	7.28 pH	16.91 °C	452.58 µS/cm	1.13 mg/L	1.26 NTU	41.8 mV	72.99 ft	0.22 PSU	120.00 ml/min
3/18/2021 10:56 AM	32:00	7.28 pH	17.06 °C	452.90 µS/cm	1.17 mg/L	1.31 NTU	40.9 mV	73.49 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:00 AM	36:00	7.28 pH	17.40 °C	451.03 µS/cm	1.20 mg/L	1.79 NTU	40.1 mV	74.39 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:04 AM	40:00	7.27 pH	17.49 °C	451.30 µS/cm	1.24 mg/L	1.52 NTU	39.8 mV	75.50 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:08 AM	44:00	7.27 pH	17.49 °C	452.08 µS/cm	1.27 mg/L	1.73 NTU	39.1 mV	76.15 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:12 AM	48:00	7.28 pH	17.53 °C	452.17 µS/cm	1.31 mg/L	1.60 NTU	38.6 mV	76.79 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:16 AM	52:00	7.28 pH	17.67 °C	450.30 µS/cm	1.34 mg/L	1.58 NTU	38.3 mV	77.28 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:20 AM	56:00	7.28 pH	17.94 °C	450.96 µS/cm	1.36 mg/L	1.46 NTU	37.7 mV	77.83 ft	0.22 PSU	120.00 ml/min

3/18/2021 11:24 AM	01:00:00	7.28 pH	17.99 °C	451.54 µS/cm	1.39 mg/L	1.85 NTU	37.4 mV	78.61 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:28 AM	01:04:00	7.28 pH	18.12 °C	451.49 µS/cm	1.41 mg/L	2.18 NTU	37.1 mV	79.28 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:32 AM	01:08:00	7.28 pH	18.25 °C	452.51 µS/cm	1.44 mg/L	2.50 NTU	36.6 mV	79.82 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:36 AM	01:12:00	7.28 pH	17.99 °C	454.72 µS/cm	1.47 mg/L	2.04 NTU	36.6 mV	80.50 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:40 AM	01:16:00	7.28 pH	17.89 °C	453.70 µS/cm	1.51 mg/L	2.24 NTU	36.5 mV	81.12 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:44 AM	01:20:00	7.28 pH	17.93 °C	453.89 µS/cm	1.52 mg/L	1.46 NTU	36.4 mV	81.64 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:48 AM	01:24:00	7.28 pH	17.40 °C	456.46 µS/cm	1.57 mg/L	1.58 NTU	36.5 mV	82.37 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:52 AM	01:28:00	7.28 pH	17.37 °C	457.56 µS/cm	1.59 mg/L	1.81 NTU	36.3 mV	83.06 ft	0.22 PSU	120.00 ml/min
3/18/2021 11:56 AM	01:32:00	7.29 pH	17.17 °C	458.46 µS/cm	1.63 mg/L	1.69 NTU	36.2 mV	83.82 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:00 PM	01:36:00	7.28 pH	17.70 °C	457.57 µS/cm	1.63 mg/L	1.35 NTU	35.9 mV	84.13 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:04 PM	01:40:00	7.29 pH	17.48 °C	458.01 µS/cm	1.65 mg/L	1.15 NTU	35.9 mV	84.76 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:08 PM	01:44:00	7.29 pH	17.98 °C	458.88 µS/cm	1.68 mg/L	1.29 NTU	35.6 mV	85.13 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:12 PM	01:48:00	7.29 pH	18.20 °C	458.65 µS/cm	1.71 mg/L	1.07 NTU	35.3 mV	85.80 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:16 PM	01:52:00	7.30 pH	18.33 °C	457.23 µS/cm	1.73 mg/L	0.44 NTU	35.2 mV	86.44 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:20 PM	01:56:00	7.30 pH	18.38 °C	458.41 µS/cm	1.75 mg/L	1.48 NTU	35.1 mV	87.01 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:24 PM	02:00:00	7.30 pH	18.42 °C	459.39 µS/cm	1.77 mg/L	1.33 NTU	35.0 mV	87.42 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:28 PM	02:04:00	7.30 pH	18.45 °C	459.70 µS/cm	1.79 mg/L	1.11 NTU	34.8 mV	87.94 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:32 PM	02:08:00	7.30 pH	18.47 °C	460.49 µS/cm	1.83 mg/L	1.15 NTU	34.6 mV	88.41 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:36 PM	02:12:00	7.30 pH	18.34 °C	462.89 µS/cm	1.87 mg/L	1.63 NTU	34.6 mV	88.97 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:40 PM	02:16:00	7.31 pH	17.88 °C	462.56 µS/cm	1.91 mg/L	1.07 NTU	34.9 mV	89.51 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:44 PM	02:20:00	7.31 pH	17.98 °C	463.11 µS/cm	1.93 mg/L	1.04 NTU	34.7 mV	89.99 ft	0.22 PSU	120.00 ml/min
3/18/2021 12:48 PM	02:24:00	7.32 pH	17.53 °C	463.81 µS/cm	1.99 mg/L	0.91 NTU	34.8 mV	90.68 ft	0.23 PSU	120.00 ml/min
3/18/2021 12:52 PM	02:28:00	7.32 pH	17.72 °C	465.50 µS/cm	2.03 mg/L	0.87 NTU	34.5 mV	91.20 ft	0.23 PSU	120.00 ml/min
3/18/2021 12:56 PM	02:32:00	7.32 pH	17.87 °C	465.58 µS/cm	2.07 mg/L	0.94 NTU	34.3 mV	91.54 ft	0.23 PSU	120.00 ml/min
3/18/2021 1:00 PM	02:36:00	7.33 pH	17.98 °C	464.66 µS/cm	2.09 mg/L	1.42 NTU	34.6 mV	92.12 ft	0.23 PSU	120.00 ml/min
3/18/2021 1:04 PM	02:40:00	7.33 pH	17.87 °C	465.14 µS/cm	2.12 mg/L	0.67 NTU	34.7 mV	92.86 ft	0.23 PSU	120.00 ml/min
3/18/2021 1:08 PM	02:44:00	7.33 pH	17.87 °C	466.16 µS/cm	2.17 mg/L	1.25 NTU	35.1 mV	93.27 ft	0.23 PSU	120.00 ml/min
3/18/2021 1:12 PM	02:48:00	7.33 pH	17.92 °C	465.66 µS/cm	2.19 mg/L	2.06 NTU	35.4 mV	93.89 ft	0.23 PSU	120.00 ml/min
3/18/2021 1:16 PM	02:52:00	7.34 pH	17.81 °C	465.95 µS/cm	2.21 mg/L	1.57 NTU	35.4 mV	94.28 ft	0.23 PSU	120.00 ml/min

3/18/2021 1:20 PM	02:56:00	7.34 pH	17.58 °C	466.51 µS/cm	2.25 mg/L	1.24 NTU	35.2 mV	94.68 ft	0.23 PSU	120.00 ml/min
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Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWC-13RZ

Report Properties
 Start Time = 2021-03-19 09:11:34
 Time Offset = -04:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO Concentration (mg/L) (789986)	RDO Saturation (%Sat) (789986)	Oxygen Partial Pressure (Torr) (789986)	Actual Conductivity (ÅµS/cm) (789301)	Temperature (Å°C) (789301)	Specific Conductivity (ÅµS/cm) (789301)	Salinity (PSU) (789301)	Total Dissolved Solids (ppt) (789301)	Resistivity (Î@â...cm) (789301)	Density (g/cmÅ³) (789301)	Pressure (psi) (787061)	Depth (ft) (787061)	pH (pH) (21177)	pH mV (mV) (21177)	ORP (mV) (21177)	Barometric Pressure (mbar) (720817)	Temperature (Å°C) (720817)	Marked
3/19/2021 9:11	5.864744	55.63956	89.73655	360.9913	12.01681	480.0283	0.2319315	0.3120184	2770.15	0.9996792	-0.06500471	0.4865392	7.418653	-28.90525	88.05267	993.9404	10.01921	
3/19/2021 9:11	5.849364	55.5003	89.51149	360.991	12.02013	479.9874	0.2319124	0.3119918	2770.152	0.9996789	-0.0643466	0.4880572	7.418612	-28.90325	87.92641	993.9403	10.0197	
3/19/2021 9:11	5.833984	55.36103	89.28642	360.9907	12.02345	479.9464	0.2318933	0.3119652	2770.155	0.9996784	-0.06368851	0.4895752	7.418571	-28.90125	87.80017	993.9402	10.02018	
3/19/2021 9:11	5.661235	53.77399	86.72469	361.1057	12.10332	479.128	0.2315163	0.3114332	2769.272	0.9996689	-0.08524945	0.4398414	7.419997	-28.98832	86.14677	993.957	10.02848	
3/19/2021 9:11	5.64913	53.66381	86.54675	361.1115	12.10801	479.0786	0.2314935	0.3114011	2769.228	0.9996684	-0.08593287	0.4382651	7.420063	-28.9924	86.03609	993.9576	10.02886	
3/19/2021 9:11	5.637025	53.55364	86.36879	361.1173	12.1127	479.0292	0.2314707	0.311369	2769.183	0.9996678	-0.08661628	0.4366887	7.420129	-28.99647	85.92539	993.9583	10.02924	
3/19/2021 9:11	5.62492	53.44347	86.19084	361.1231	12.1174	478.9798	0.2314479	0.3113369	2769.139	0.9996672	-0.08729968	0.4351123	7.420194	-29.00054	85.8147	993.9588	10.02962	
3/19/2021 9:11	5.480647	52.118	84.04735	361.2281	12.15547	478.6576	0.2313017	0.3111275	2768.334	0.9996627	-0.07505099	0.4633658	7.419816	-28.98361	84.34528	993.9249	10.03822	
3/19/2021 9:11	5.470885	52.02835	83.90246	361.2349	12.15869	478.6275	0.2312879	0.3111079	2768.282	0.9996623	-0.0749182	0.4636721	7.419826	-28.98451	84.24815	993.9236	10.03876	
3/19/2021 9:11	5.461124	51.93869	83.75757	361.2417	12.16192	478.5974	0.2312742	0.3110883	2768.23	0.9996619	-0.07478542	0.4639784	7.419836	-28.98541	84.15103	993.9225	10.0393	
3/19/2021 9:11	5.451364	51.84904	83.61268	361.2485	12.16514	478.5672	0.2312604	0.3110687	2768.177	0.9996616	-0.07465263	0.4642847	7.419847	-28.98632	84.05391	993.9213	10.03984	

Low-Flow Test Report:

Test Date / Time: 3/18/2021 9:33:06 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-14Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.34 ft Total Depth: 76.34 ft Initial Depth to Water: 31.53 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 71.34 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 2.58 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 9:33 AM	00:00	5.91 pH	17.30 °C	127.62 µS/cm	3.98 mg/L	1.75 NTU	49.9 mV	32.94 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:37 AM	04:00	5.76 pH	17.23 °C	119.43 µS/cm	4.25 mg/L	1.81 NTU	47.7 mV	33.14 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:41 AM	08:00	5.74 pH	17.23 °C	117.26 µS/cm	4.38 mg/L	1.71 NTU	46.5 mV	33.36 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:45 AM	12:00	5.77 pH	17.32 °C	118.86 µS/cm	4.47 mg/L	1.17 NTU	45.5 mV	33.54 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:49 AM	16:00	5.82 pH	17.33 °C	121.43 µS/cm	4.54 mg/L	0.78 NTU	43.9 mV	33.68 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:53 AM	20:00	5.88 pH	17.38 °C	124.23 µS/cm	4.62 mg/L	1.04 NTU	42.2 mV	33.79 ft	0.06 PSU	120.00 ml/min
3/18/2021 9:57 AM	24:00	5.94 pH	17.41 °C	126.86 µS/cm	4.68 mg/L	0.91 NTU	41.3 mV	33.89 ft	0.06 PSU	120.00 ml/min
3/18/2021 10:01 AM	28:00	5.98 pH	17.23 °C	129.30 µS/cm	4.75 mg/L	0.65 NTU	39.7 mV	33.98 ft	0.06 PSU	120.00 ml/min
3/18/2021 10:05 AM	32:00	6.01 pH	17.27 °C	131.38 µS/cm	4.82 mg/L	0.80 NTU	38.7 mV	34.06 ft	0.06 PSU	120.00 ml/min
3/18/2021 10:09 AM	36:00	6.04 pH	17.81 °C	132.69 µS/cm	4.80 mg/L	0.77 NTU	38.0 mV	34.11 ft	0.06 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-14Z	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 10:54:06 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-15R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 87.5 ft Total Depth: 97.5 ft Initial Depth to Water: 40.72 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 92.5 ft Estimated Total Volume Pumped: 7600 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Lowered pump rate to 110 mL/min at 12:00 to lower turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 10:54 AM	00:00	7.29 pH	17.58 °C	366.98 µS/cm	1.96 mg/L	1.52 NTU	-25.1 mV	41.04 ft	0.18 PSU	120.00 ml/min
3/18/2021 10:58 AM	04:00	7.45 pH	17.76 °C	378.09 µS/cm	2.73 mg/L	1.41 NTU	-8.9 mV	41.04 ft	0.18 PSU	120.00 ml/min
3/18/2021 11:02 AM	08:00	7.47 pH	18.03 °C	378.16 µS/cm	2.81 mg/L	2.65 NTU	-1.6 mV	41.04 ft	0.18 PSU	120.00 ml/min
3/18/2021 11:06 AM	12:00	7.48 pH	18.16 °C	378.61 µS/cm	2.85 mg/L	5.45 NTU	2.0 mV	41.04 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:10 AM	16:00	7.48 pH	18.35 °C	374.92 µS/cm	2.86 mg/L	7.69 NTU	3.9 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:14 AM	20:00	7.50 pH	18.43 °C	374.14 µS/cm	2.86 mg/L	8.83 NTU	5.3 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:18 AM	24:00	7.50 pH	18.35 °C	372.41 µS/cm	2.85 mg/L	9.07 NTU	6.3 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:22 AM	28:00	7.51 pH	18.50 °C	370.07 µS/cm	2.87 mg/L	8.90 NTU	7.0 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:26 AM	32:00	7.51 pH	18.64 °C	369.11 µS/cm	2.90 mg/L	8.68 NTU	8.2 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:30 AM	36:00	7.52 pH	18.79 °C	367.33 µS/cm	2.92 mg/L	7.91 NTU	8.7 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:34 AM	40:00	7.53 pH	18.85 °C	363.43 µS/cm	2.90 mg/L	6.72 NTU	9.5 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:38 AM	44:00	7.54 pH	18.73 °C	363.70 µS/cm	2.91 mg/L	6.38 NTU	10.2 mV	40.97 ft	0.18 PSU	110.00 ml/min
3/18/2021 11:42 AM	48:00	7.55 pH	18.81 °C	362.38 µS/cm	2.91 mg/L	5.80 NTU	10.7 mV	40.97 ft	0.17 PSU	110.00 ml/min
3/18/2021 11:46 AM	52:00	7.56 pH	18.54 °C	358.57 µS/cm	2.89 mg/L	5.38 NTU	11.5 mV	40.97 ft	0.17 PSU	110.00 ml/min
3/18/2021 11:50 AM	56:00	7.55 pH	18.16 °C	358.38 µS/cm	2.91 mg/L	5.13 NTU	12.5 mV	40.97 ft	0.17 PSU	110.00 ml/min

3/18/2021 11:54 AM	01:00:00	7.57 pH	18.09 °C	356.37 µS/cm	2.92 mg/L	4.75 NTU	12.5 mV	40.97 ft	0.17 PSU	110.00 ml/min
3/18/2021 11:58 AM	01:04:00	7.57 pH	17.96 °C	355.63 µS/cm	2.93 mg/L	4.92 NTU	13.0 mV	40.97 ft	0.17 PSU	110.00 ml/min
3/18/2021 12:02 PM	01:08:00	7.58 pH	18.45 °C	355.00 µS/cm	2.92 mg/L	4.60 NTU	12.6 mV	40.97 ft	0.17 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWC-15R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/18/2021 12:42:48 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-15Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 64.9 ft Total Depth: 74.9 ft Initial Depth to Water: 40.39 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 69.9 ft Estimated Total Volume Pumped: 8200 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Lowered pump rate to 110 mL/min at 24:00 to stop upward trending turbidity. Pumped an additional hour after stabilization for pH to move in range, with no effect.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/18/2021 12:42 PM	00:00	7.80 pH	18.88 °C	232.09 µS/cm	7.09 mg/L	1.07 NTU	21.5 mV	41.00 ft	0.11 PSU	140.00 ml/min
3/18/2021 12:46 PM	04:00	7.86 pH	18.70 °C	231.31 µS/cm	7.14 mg/L	0.82 NTU	19.9 mV	41.04 ft	0.11 PSU	140.00 ml/min
3/18/2021 12:50 PM	08:00	7.86 pH	18.75 °C	232.99 µS/cm	7.18 mg/L	0.89 NTU	19.4 mV	41.06 ft	0.11 PSU	140.00 ml/min
3/18/2021 12:54 PM	12:00	7.86 pH	18.83 °C	232.22 µS/cm	7.06 mg/L	1.31 NTU	18.3 mV	41.07 ft	0.11 PSU	140.00 ml/min
3/18/2021 12:58 PM	16:00	7.86 pH	18.97 °C	233.74 µS/cm	7.12 mg/L	2.05 NTU	17.8 mV	41.07 ft	0.11 PSU	140.00 ml/min
3/18/2021 1:02 PM	20:00	7.86 pH	18.70 °C	233.59 µS/cm	7.09 mg/L	2.60 NTU	17.8 mV	41.08 ft	0.11 PSU	140.00 ml/min
3/18/2021 1:06 PM	24:00	7.86 pH	19.06 °C	234.07 µS/cm	7.04 mg/L	2.70 NTU	17.5 mV	40.95 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:10 PM	28:00	7.86 pH	19.28 °C	235.35 µS/cm	7.04 mg/L	2.89 NTU	17.2 mV	40.90 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:14 PM	32:00	7.86 pH	19.26 °C	234.11 µS/cm	7.01 mg/L	3.22 NTU	17.4 mV	40.88 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:18 PM	36:00	7.86 pH	19.03 °C	233.85 µS/cm	7.04 mg/L	3.09 NTU	17.5 mV	40.87 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:22 PM	40:00	7.86 pH	19.30 °C	236.74 µS/cm	7.13 mg/L	3.05 NTU	16.8 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:26 PM	44:00	7.86 pH	19.55 °C	235.15 µS/cm	7.04 mg/L	2.83 NTU	16.8 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:30 PM	48:00	7.87 pH	19.37 °C	236.06 µS/cm	7.09 mg/L	2.90 NTU	16.7 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:34 PM	52:00	7.87 pH	19.06 °C	234.76 µS/cm	7.12 mg/L	3.12 NTU	16.8 mV	40.86 ft	0.11 PSU	110.00 ml/min

3/18/2021 1:38 PM	56:00	7.87 pH	19.19 °C	234.53 µS/cm	7.11 mg/L	2.87 NTU	17.0 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:42 PM	01:00:00	7.87 pH	18.79 °C	233.85 µS/cm	7.18 mg/L	2.96 NTU	17.1 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:46 PM	01:04:00	7.87 pH	18.66 °C	234.94 µS/cm	7.21 mg/L	3.07 NTU	16.9 mV	40.86 ft	0.11 PSU	110.00 ml/min
3/18/2021 1:50 PM	01:08:00	7.87 pH	18.97 °C	234.12 µS/cm	7.16 mg/L	2.95 NTU	16.8 mV	40.86 ft	0.11 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWC-15Z	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/8/2021 3:00:06 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-16R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 88.12 ft Total Depth: 98.12 ft Initial Depth to Water: 78.79 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 93.12 ft Estimated Total Volume Pumped: 7200 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 9.53 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters. Water level dropped below top of screen. Complete evacuation method initiated. Samples to be collected 3/9.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/8/2021 3:00 PM	00:00	7.13 pH	18.78 °C	585.48 µS/cm	6.23 mg/L	0.60 NTU	81.2 mV	83.58 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:04 PM	04:00	7.14 pH	17.62 °C	593.78 µS/cm	6.26 mg/L	1.18 NTU	73.3 mV	83.84 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:08 PM	08:00	7.15 pH	17.40 °C	594.02 µS/cm	6.28 mg/L	0.33 NTU	65.4 mV	84.08 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:12 PM	12:00	7.14 pH	17.31 °C	593.80 µS/cm	6.29 mg/L	0.23 NTU	59.4 mV	84.44 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:16 PM	16:00	7.15 pH	17.26 °C	593.83 µS/cm	6.28 mg/L	0.23 NTU	54.4 mV	84.75 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:20 PM	20:00	7.14 pH	17.11 °C	593.61 µS/cm	6.26 mg/L	0.29 NTU	52.1 mV	84.94 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:24 PM	24:00	7.15 pH	17.01 °C	591.78 µS/cm	6.19 mg/L	0.15 NTU	50.4 mV	85.25 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:28 PM	28:00	7.15 pH	16.84 °C	593.07 µS/cm	6.16 mg/L	0.15 NTU	48.8 mV	85.58 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:32 PM	32:00	7.15 pH	16.73 °C	592.40 µS/cm	6.09 mg/L	0.22 NTU	48.1 mV	85.83 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:36 PM	36:00	7.15 pH	16.68 °C	594.15 µS/cm	6.08 mg/L	0.18 NTU	47.0 mV	86.33 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:40 PM	40:00	7.15 pH	16.85 °C	594.01 µS/cm	6.00 mg/L	0.41 NTU	46.4 mV	86.63 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:44 PM	44:00	7.15 pH	16.99 °C	593.60 µS/cm	5.92 mg/L	1.03 NTU	45.7 mV	87.19 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:48 PM	48:00	7.14 pH	17.16 °C	594.36 µS/cm	5.84 mg/L	0.54 NTU	45.1 mV	87.41 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:52 PM	52:00	7.14 pH	17.31 °C	593.34 µS/cm	5.76 mg/L	0.44 NTU	44.0 mV	87.77 ft	0.29 PSU	120.00 ml/min
3/8/2021 3:56 PM	56:00	7.14 pH	17.76 °C	591.40 µS/cm	5.65 mg/L	0.22 NTU	43.5 mV	88.09 ft	0.29 PSU	120.00 ml/min

3/8/2021 4:00 PM	01:00:00	7.14 pH	17.98 °C	592.02 µS/cm	5.54 mg/L	0.31 NTU	42.9 mV	88.32 ft	0.29 PSU	120.00 ml/min
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Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWC-16R

Report Properties
 Start Time = 2021-03-09 09:54:58
 Time Offset = -05:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO Concentration (mg/L) (789986)	RDO Saturation (%Sat) (789986)	Oxygen Partial Pressure (Torr) (789986)	Actual Conductivity (µS/cm) (789301)	Temperature (°C) (789301)	Specific Conductivity (µS/cm) (789301)	Salinity (PSU) (789301)	Total Dissolved Solids (ppt) (789301)	Resistivity (Î©â€¦cm) (789301)	Density (g/cmÂ³) (789301)	Pressure (psi) (787061)	Depth (ft) (787061)	pH (pH) (21177)	pH mV (mV) (21177)	ORP (mV) (21177)	Barometric Pressure (mbar) (720817)	Temperature (Â°C) (720817)	Marked
3/9/2021 9:54	9.260798	97.03291	162.5363	520.5581	17.34638	609.6844	0.2984544	0.3962948	1921.016	0.998946	-0.09441576	0.4186979	7.343704	-19.80496	174.3225	1009.808	15.23262	
3/9/2021 9:55	9.259702	97.03043	162.5313	520.618	17.35199	609.6779	0.2984522	0.3962906	1920.795	0.9989449	-0.09458775	0.4183012	7.34364	-19.80156	174.3449	1009.808	15.23544	
3/9/2021 9:55	9.258605	97.02795	162.5263	520.6778	17.3576	609.6714	0.29845	0.3962864	1920.574	0.9989439	-0.09475973	0.4179045	7.343575	-19.79816	174.3673	1009.809	15.23826	
3/9/2021 9:55	9.255306	97.07569	162.5913	521.2845	17.39752	609.8375	0.2985416	0.3963943	1918.339	0.9989369	-0.09430698	0.4189488	7.343042	-19.76972	174.7258	1009.766	15.26366	
3/9/2021 9:55	9.254919	97.07768	162.5937	521.3314	17.40131	609.8405	0.2985439	0.3963963	1918.167	0.9989362	-0.09426833	0.419038	7.343	-19.76751	174.7485	1009.765	15.26578	
3/9/2021 9:55	9.254531	97.07967	162.5962	521.3782	17.4051	609.8436	0.2985462	0.3963984	1917.994	0.9989356	-0.09422968	0.4191271	7.342958	-19.7653	174.7713	1009.763	15.26789	
3/9/2021 9:55	9.254143	97.08165	162.5987	521.425	17.40889	609.8467	0.2985485	0.3964004	1917.821	0.9989349	-0.09419104	0.4192163	7.342916	-19.76309	174.7941	1009.762	15.27001	
3/9/2021 9:55	9.246423	97.17546	162.7363	522.1295	17.44815	610.1355	0.2987019	0.3965881	1915.235	0.998928	-0.08258523	0.4459869	7.341858	-19.70427	175.14	1009.752	15.29545	
3/9/2021 9:55	9.245998	97.18048	162.7436	522.1731	17.45074	610.1513	0.2987104	0.3965983	1915.074	0.9989275	-0.08206229	0.4471932	7.3418	-19.70106	175.1625	1009.751	15.29711	
3/9/2021 9:55	9.245575	97.18551	162.7508	522.2168	17.45333	610.1671	0.2987189	0.3966086	1914.914	0.9989271	-0.08153934	0.4483995	7.341742	-19.69785	175.1849	1009.75	15.29876	
3/9/2021 9:55	9.227045	97.10224	162.5998	523.1027	17.55303	609.8455	0.2985748	0.3963996	1911.672	0.9989091	-0.09200208	0.4242654	7.341012	-19.66216	175.51	1009.75	15.34096	

Low-Flow Test Report:

Test Date / Time: 3/9/2021 10:48:42 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-17R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 82.93 ft Total Depth: 92.93 ft Initial Depth to Water: 82.69 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 87.93 ft Estimated Total Volume Pumped: 3080 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 4.71 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

DTW started within screen interval, therefore full evac was performed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 10:48 AM	00:00	7.41 pH	18.28 °C	562.01 µS/cm	7.54 mg/L	0.58 NTU	58.8 mV	83.55 ft	0.27 PSU	110.00 ml/min
3/9/2021 10:52 AM	04:00	7.35 pH	18.12 °C	566.07 µS/cm	7.33 mg/L	0.63 NTU	42.0 mV	83.74 ft	0.28 PSU	110.00 ml/min
3/9/2021 10:56 AM	08:00	7.32 pH	18.01 °C	568.15 µS/cm	7.17 mg/L	0.70 NTU	38.7 mV	84.90 ft	0.28 PSU	110.00 ml/min
3/9/2021 11:00 AM	12:00	7.31 pH	18.14 °C	568.72 µS/cm	7.03 mg/L	0.67 NTU	36.9 mV	85.40 ft	0.28 PSU	110.00 ml/min
3/9/2021 11:04 AM	16:00	7.30 pH	18.03 °C	570.64 µS/cm	6.95 mg/L	0.54 NTU	35.8 mV	85.90 ft	0.28 PSU	110.00 ml/min
3/9/2021 11:08 AM	20:00	7.29 pH	18.11 °C	572.14 µS/cm	6.97 mg/L	0.67 NTU	35.1 mV	86.30 ft	0.28 PSU	110.00 ml/min
3/9/2021 11:12 AM	24:00	7.29 pH	18.16 °C	572.05 µS/cm	7.00 mg/L	0.84 NTU	34.3 mV	86.90 ft	0.28 PSU	110.00 ml/min
3/9/2021 11:16 AM	28:00	7.29 pH	18.26 °C	570.71 µS/cm	7.02 mg/L	1.02 NTU	33.3 mV	87.40 ft	0.28 PSU	110.00 ml/min

Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWC-17R

Report Properties
 Start Time = 2021-03-10 10:02:27
 Time Offset = -05:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO	RDO	Actual		Specific			Total	Resistivity ($\Omega \cdot \text{cm}$)	Density (g/cm^3)	Pressure (psi)	Depth (ft)	pH (pH)	pH mV (mV)	ORP (mV)	Barometric		Marked
	Concentration (mg/L)	Saturation (%Sat)	Oxygen Partial Pressure (Torr)	Conductivity ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	Conductivity ($\mu\text{S}/\text{cm}$)	Salinity (PSU)	Dissolved Solids (ppt)								Pressure (mbar)	Temperature ($^{\circ}\text{C}$)	
	(789986)	(789986)	(789986)	(789301)	(789301)	(789301)	(789301)	(789301)	(789301)	(787061)	(787061)	(21177)	(21177)	(21177)	(720817)	(720817)		
3/10/2021 10:02	9.105352	100.1265	164.6559	505.2404	19.50944	564.4321	0.2759125	0.3668809	1979.257	0.9985178	-0.09068184	0.4273108	7.276371	-18.29518	70.94495	1006.63	16.07501	
3/10/2021 10:02	9.105431	100.1387	164.6745	505.3011	19.51238	564.4645	0.2759292	0.3669019	1979.019	0.9985172	-0.09096327	0.4266616	7.27621	-18.28631	70.96056	1006.629	16.07742	
3/10/2021 10:02	9.108342	100.2611	164.8678	506.3973	19.6161	564.4399	0.2759266	0.366886	1974.737	0.9984962	-0.08408409	0.4425296	7.274455	-18.19263	71.35913	1006.646	16.11237	
3/10/2021 10:02	9.108367	100.2695	164.8809	506.467	19.62185	564.4487	0.2759315	0.3668917	1974.464	0.998495	-0.0838274	0.4431217	7.274329	-18.18587	71.38231	1006.647	16.11479	
3/10/2021 10:02	9.108392	100.278	164.8941	506.5368	19.62759	564.4575	0.2759365	0.3668973	1974.191	0.9984939	-0.08357072	0.4437138	7.274204	-18.1791	71.40549	1006.648	16.11721	
3/10/2021 10:02	9.108416	100.2865	164.9072	506.6066	19.63334	564.4662	0.2759414	0.366903	1973.918	0.9984927	-0.08331404	0.4443058	7.274078	-18.17234	71.42867	1006.649	16.11963	
3/10/2021 10:02	9.126358	100.5796	165.3791	507.2778	19.68193	564.6301	0.2760285	0.3670096	1971.308	0.9984828	-0.09560519	0.4159543	7.272213	-18.07011	71.65277	1006.658	16.16109	
3/10/2021 10:02	9.127188	100.5948	165.4034	507.3291	19.68613	564.6368	0.2760323	0.3670139	1971.108	0.998482	-0.09599662	0.4150514	7.272096	-18.06377	71.67054	1006.658	16.16359	
3/10/2021 10:02	9.128016	100.6099	165.4276	507.3804	19.69033	564.6436	0.2760361	0.3670183	1970.908	0.9984812	-0.09638805	0.4141485	7.27198	-18.05744	71.6883	1006.659	16.1661	
3/10/2021 10:02	9.128846	100.625	165.4519	507.4318	19.69453	564.6503	0.2760398	0.3670227	1970.708	0.9984803	-0.09677948	0.4132456	7.271863	-18.05111	71.70607	1006.66	16.1686	
3/10/2021 10:02	9.100789	100.5288	165.2641	508.4126	19.75623	565.0007	0.2762221	0.3672504	1966.908	0.9984679	-0.06984242	0.4753802	7.269971	-17.94623	71.9004	1006.633	16.1951	

Low-Flow Test Report:

Test Date / Time: 2/26/2021 10:05:35 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.31 ft Total Depth: 80.31 ft Initial Depth to Water: 73.22 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 78.31 ft Estimated Total Volume Pumped: 12880 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Prepurged 1 L

Historically, well cannot be evacuated due to lack of drawdown. Three well volumes purged before sampling.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/26/2021 10:05 AM	00:00	6.82 pH	14.76 °C	190.52 µS/cm	7.87 mg/L	30.70 NTU	154.0 mV	73.20 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:09 AM	04:00	6.79 pH	15.01 °C	189.23 µS/cm	7.80 mg/L	25.60 NTU	129.6 mV	73.20 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:13 AM	08:00	6.80 pH	14.84 °C	189.74 µS/cm	7.77 mg/L	15.60 NTU	113.0 mV	73.20 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:17 AM	12:00	6.81 pH	14.96 °C	192.03 µS/cm	7.77 mg/L	13.40 NTU	100.3 mV	73.20 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:21 AM	16:00	6.82 pH	15.06 °C	193.63 µS/cm	7.76 mg/L	10.37 NTU	103.0 mV	73.20 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:25 AM	20:00	6.83 pH	15.15 °C	194.92 µS/cm	7.72 mg/L	7.74 NTU	89.0 mV	73.18 ft	0.09 PSU	170.00 ml/min
2/26/2021 10:29 AM	24:00	6.84 pH	15.31 °C	197.95 µS/cm	7.72 mg/L	6.94 NTU	80.8 mV	73.18 ft	0.09 PSU	200.00 ml/min
2/26/2021 10:33 AM	28:00	6.86 pH	15.37 °C	200.92 µS/cm	7.69 mg/L	7.47 NTU	81.9 mV	73.17 ft	0.10 PSU	200.00 ml/min
2/26/2021 10:37 AM	32:00	6.88 pH	15.28 °C	204.62 µS/cm	7.64 mg/L	5.54 NTU	72.4 mV	73.16 ft	0.10 PSU	200.00 ml/min
2/26/2021 10:41 AM	36:00	6.90 pH	15.38 °C	208.80 µS/cm	7.59 mg/L	5.71 NTU	67.4 mV	73.15 ft	0.10 PSU	200.00 ml/min
2/26/2021 10:45 AM	40:00	6.93 pH	15.33 °C	213.83 µS/cm	7.56 mg/L	4.76 NTU	64.7 mV	73.14 ft	0.10 PSU	200.00 ml/min
2/26/2021 10:49 AM	44:00	6.96 pH	15.24 °C	217.82 µS/cm	7.48 mg/L	4.89 NTU	63.9 mV	73.13 ft	0.10 PSU	200.00 ml/min
2/26/2021 10:53 AM	48:00	6.98 pH	15.27 °C	222.33 µS/cm	7.44 mg/L	4.32 NTU	63.0 mV	73.12 ft	0.11 PSU	200.00 ml/min
2/26/2021 10:57 AM	52:00	7.00 pH	15.28 °C	225.56 µS/cm	7.41 mg/L	3.59 NTU	60.1 mV	73.11 ft	0.11 PSU	200.00 ml/min
2/26/2021 11:01 AM	56:00	7.02 pH	15.28 °C	227.86 µS/cm	7.38 mg/L	3.71 NTU	58.0 mV	73.10 ft	0.11 PSU	200.00 ml/min

2/26/2021 11:05 AM	01:00:00	7.04 pH	15.28 °C	230.86 µS/cm	7.36 mg/L	3.66 NTU	56.0 mV	73.10 ft	0.11 PSU	200.00 ml/min
2/26/2021 11:09 AM	01:04:00	7.06 pH	15.28 °C	232.23 µS/cm	7.32 mg/L	4.13 NTU	55.4 mV	73.09 ft	0.11 PSU	200.00 ml/min
2/26/2021 11:13 AM	01:08:00	7.07 pH	15.31 °C	234.28 µS/cm	7.31 mg/L	3.95 NTU	54.6 mV	73.08 ft	0.11 PSU	200.00 ml/min

Samples

Sample ID:	Description:
GWC-18	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/26/2021 12:01:02 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-18R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 130.1 ft Total Depth: 140.1 ft Initial Depth to Water: 72.65 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 135.1 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: -0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/26/2021 12:01 PM	00:00	7.40 pH	14.02 °C	286.25 µS/cm	5.48 mg/L	2.42 NTU	100.0 mV	72.61 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:05 PM	04:00	7.57 pH	14.20 °C	285.56 µS/cm	6.00 mg/L	4.18 NTU	50.5 mV	72.61 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:09 PM	08:00	7.70 pH	14.24 °C	286.01 µS/cm	6.47 mg/L	12.50 NTU	42.6 mV	72.61 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:13 PM	12:00	7.77 pH	14.29 °C	286.62 µS/cm	6.67 mg/L	5.43 NTU	40.6 mV	72.61 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:17 PM	16:00	7.80 pH	14.29 °C	285.71 µS/cm	6.73 mg/L	4.93 NTU	40.1 mV	72.60 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:21 PM	20:00	7.80 pH	14.26 °C	286.25 µS/cm	6.80 mg/L	4.59 NTU	39.6 mV	72.59 ft	0.14 PSU	120.00 ml/min
2/26/2021 12:25 PM	24:00	7.81 pH	14.29 °C	286.33 µS/cm	6.80 mg/L	4.11 NTU	39.4 mV	72.58 ft	0.14 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-18R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/26/2021 1:13:30 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-19R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 136.6 ft Total Depth: 146.6 ft Initial Depth to Water: 76.37 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 141.6 ft Estimated Total Volume Pumped: 2080 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/26/2021 1:13 PM	00:00	7.70 pH	15.15 °C	304.25 µS/cm	6.59 mg/L	2.34 NTU	79.0 mV	76.38 ft	0.15 PSU	130.00 ml/min
2/26/2021 1:17 PM	04:00	7.72 pH	15.37 °C	301.73 µS/cm	6.78 mg/L	1.66 NTU	44.7 mV	76.39 ft	0.14 PSU	130.00 ml/min
2/26/2021 1:21 PM	08:00	7.73 pH	15.44 °C	302.47 µS/cm	6.76 mg/L	0.99 NTU	39.7 mV	76.39 ft	0.15 PSU	130.00 ml/min
2/26/2021 1:25 PM	12:00	7.73 pH	15.55 °C	301.57 µS/cm	6.75 mg/L	1.13 NTU	39.6 mV	76.39 ft	0.14 PSU	130.00 ml/min
2/26/2021 1:29 PM	16:00	7.73 pH	15.57 °C	302.84 µS/cm	6.77 mg/L	1.07 NTU	39.4 mV	76.39 ft	0.15 PSU	130.00 ml/min

Samples

Sample ID:	Description:
GWC-19R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/9/2021 1:58:07 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-20R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 77.47 ft Total Depth: 87.47 ft Initial Depth to Water: 70.34 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 82.47 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 1:58 PM	00:00	7.74 pH	18.70 °C	318.34 µS/cm	6.79 mg/L	0.74 NTU	33.3 mV	70.45 ft	0.15 PSU	120.00 ml/min
3/9/2021 2:02 PM	04:00	7.80 pH	18.18 °C	306.31 µS/cm	6.54 mg/L	0.55 NTU	28.5 mV	70.45 ft	0.15 PSU	120.00 ml/min
3/9/2021 2:06 PM	08:00	7.82 pH	17.95 °C	300.71 µS/cm	6.49 mg/L	0.70 NTU	27.0 mV	70.45 ft	0.14 PSU	120.00 ml/min
3/9/2021 2:10 PM	12:00	7.82 pH	18.10 °C	300.10 µS/cm	6.47 mg/L	0.75 NTU	26.2 mV	70.45 ft	0.14 PSU	120.00 ml/min
3/9/2021 2:14 PM	16:00	7.82 pH	18.01 °C	301.31 µS/cm	6.40 mg/L	0.74 NTU	25.9 mV	70.45 ft	0.14 PSU	120.00 ml/min
3/9/2021 2:18 PM	20:00	7.81 pH	17.83 °C	308.41 µS/cm	6.43 mg/L	0.59 NTU	25.9 mV	70.45 ft	0.15 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-20R	Metals, Inorganics, TDS
DUP-3	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/9/2021 3:29:37 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-21R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 80.59 ft Total Depth: 90.59 ft Initial Depth to Water: 72.52 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 85.59 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 3:29 PM	00:00	6.96 pH	19.17 °C	1,127.1 µS/cm	1.27 mg/L	1.58 NTU	-56.0 mV	72.52 ft	0.57 PSU	120.00 ml/min
3/9/2021 3:33 PM	04:00	6.94 pH	18.23 °C	1,167.2 µS/cm	0.55 mg/L	0.80 NTU	-62.2 mV	73.13 ft	0.59 PSU	120.00 ml/min
3/9/2021 3:37 PM	08:00	6.95 pH	18.15 °C	1,161.9 µS/cm	0.46 mg/L	0.68 NTU	-63.1 mV	73.22 ft	0.58 PSU	120.00 ml/min
3/9/2021 3:41 PM	12:00	6.96 pH	17.93 °C	1,161.8 µS/cm	0.46 mg/L	1.11 NTU	-61.7 mV	73.33 ft	0.58 PSU	120.00 ml/min
3/9/2021 3:45 PM	16:00	6.97 pH	17.93 °C	1,160.5 µS/cm	0.41 mg/L	0.97 NTU	-59.6 mV	73.44 ft	0.58 PSU	120.00 ml/min
3/9/2021 3:49 PM	20:00	6.98 pH	17.91 °C	1,156.9 µS/cm	0.39 mg/L	0.63 NTU	-53.8 mV	73.57 ft	0.58 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-21R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/9/2021 3:17:58 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-22R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 109.6 ft Total Depth: 119.6 ft Initial Depth to Water: 63.47 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 114.6 ft Estimated Total Volume Pumped: 8880 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 3:17 PM	00:00	7.11 pH	17.59 °C	402.09 µS/cm	0.25 mg/L	1.75 NTU	-48.2 mV	63.48 ft	0.19 PSU	120.00 ml/min
3/9/2021 3:21 PM	04:00	7.12 pH	17.48 °C	398.38 µS/cm	0.20 mg/L	1.54 NTU	-49.2 mV	63.48 ft	0.19 PSU	120.00 ml/min
3/9/2021 3:25 PM	08:00	7.14 pH	17.46 °C	396.41 µS/cm	0.19 mg/L	1.77 NTU	-49.5 mV	63.48 ft	0.19 PSU	120.00 ml/min
3/9/2021 3:29 PM	12:00	7.19 pH	17.58 °C	389.48 µS/cm	0.26 mg/L	1.61 NTU	-49.1 mV	63.48 ft	0.19 PSU	120.00 ml/min
3/9/2021 3:33 PM	16:00	7.23 pH	17.50 °C	377.58 µS/cm	0.72 mg/L	1.82 NTU	-44.9 mV	63.48 ft	0.18 PSU	120.00 ml/min
3/9/2021 3:37 PM	20:00	7.26 pH	17.49 °C	365.46 µS/cm	1.36 mg/L	1.85 NTU	-39.3 mV	63.48 ft	0.18 PSU	120.00 ml/min
3/9/2021 3:41 PM	24:00	7.28 pH	17.53 °C	356.82 µS/cm	1.94 mg/L	2.10 NTU	-36.4 mV	63.48 ft	0.17 PSU	120.00 ml/min
3/9/2021 3:45 PM	28:00	7.29 pH	17.54 °C	350.12 µS/cm	2.41 mg/L	1.99 NTU	-33.9 mV	63.48 ft	0.17 PSU	120.00 ml/min
3/9/2021 3:49 PM	32:00	7.31 pH	17.60 °C	344.51 µS/cm	2.78 mg/L	1.94 NTU	-32.5 mV	63.48 ft	0.17 PSU	120.00 ml/min
3/9/2021 3:53 PM	36:00	7.32 pH	17.58 °C	340.14 µS/cm	3.13 mg/L	1.99 NTU	-30.9 mV	63.48 ft	0.16 PSU	120.00 ml/min
3/9/2021 3:57 PM	40:00	7.30 pH	17.77 °C	339.71 µS/cm	3.28 mg/L	1.71 NTU	-29.5 mV	63.48 ft	0.16 PSU	170.00 ml/min
3/9/2021 4:01 PM	44:00	7.28 pH	17.63 °C	339.68 µS/cm	3.25 mg/L	1.65 NTU	-28.3 mV	63.48 ft	0.16 PSU	170.00 ml/min
3/9/2021 4:05 PM	48:00	7.31 pH	17.40 °C	335.25 µS/cm	3.54 mg/L	1.54 NTU	-27.9 mV	63.48 ft	0.16 PSU	170.00 ml/min
3/9/2021 4:09 PM	52:00	7.34 pH	17.21 °C	332.80 µS/cm	3.91 mg/L	1.53 NTU	-27.3 mV	63.48 ft	0.16 PSU	170.00 ml/min
3/9/2021 4:13 PM	56:00	7.32 pH	17.15 °C	333.34 µS/cm	3.89 mg/L	1.47 NTU	-26.6 mV	63.48 ft	0.16 PSU	170.00 ml/min

3/9/2021 4:17 PM	01:00:00	7.33 pH	17.14 °C	331.91 µS/cm	3.99 mg/L	1.43 NTU	-26.4 mV	63.48 ft	0.16 PSU	170.00 ml/min
3/9/2021 4:21 PM	01:04:00	7.35 pH	17.06 °C	329.62 µS/cm	4.18 mg/L	1.42 NTU	-25.8 mV	63.48 ft	0.16 PSU	170.00 ml/min

Samples

Sample ID:	Description:
GWC-22R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/9/2021 12:11:05 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-23R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.57 ft Total Depth: 49.57 ft Initial Depth to Water: 38.97 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 44.57 ft Estimated Total Volume Pumped: 7040 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 5.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

DTW fell within screen interval, therefore full evac was performed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 12:11 PM	00:00	7.29 pH	17.61 °C	693.51 µS/cm	5.91 mg/L	0.92 NTU	60.1 mV	39.80 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:15 PM	04:00	7.32 pH	17.50 °C	698.25 µS/cm	6.04 mg/L	0.69 NTU	47.8 mV	39.80 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:19 PM	08:00	7.36 pH	17.55 °C	698.07 µS/cm	6.17 mg/L	0.88 NTU	43.8 mV	39.90 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:23 PM	12:00	7.38 pH	17.63 °C	694.49 µS/cm	6.39 mg/L	0.76 NTU	41.3 mV	40.13 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:27 PM	16:00	7.39 pH	17.54 °C	692.87 µS/cm	6.59 mg/L	0.89 NTU	39.6 mV	40.36 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:31 PM	20:00	7.38 pH	17.60 °C	691.59 µS/cm	6.72 mg/L	0.62 NTU	38.4 mV	40.60 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:35 PM	24:00	7.38 pH	17.72 °C	691.95 µS/cm	6.72 mg/L	0.61 NTU	37.3 mV	40.80 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:39 PM	28:00	7.38 pH	17.56 °C	692.33 µS/cm	6.75 mg/L	0.56 NTU	37.1 mV	41.00 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:43 PM	32:00	7.38 pH	17.72 °C	695.10 µS/cm	6.77 mg/L	0.87 NTU	36.2 mV	41.50 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:47 PM	36:00	7.37 pH	17.85 °C	696.80 µS/cm	6.76 mg/L	0.70 NTU	36.3 mV	41.90 ft	0.34 PSU	110.00 ml/min
3/9/2021 12:51 PM	40:00	7.37 pH	17.99 °C	701.22 µS/cm	6.78 mg/L	0.76 NTU	35.8 mV	42.30 ft	0.35 PSU	110.00 ml/min
3/9/2021 12:55 PM	44:00	7.37 pH	18.17 °C	702.30 µS/cm	6.74 mg/L	0.89 NTU	35.8 mV	42.70 ft	0.35 PSU	110.00 ml/min
3/9/2021 12:59 PM	48:00	7.37 pH	17.92 °C	703.53 µS/cm	6.71 mg/L	1.05 NTU	35.5 mV	43.00 ft	0.35 PSU	110.00 ml/min
3/9/2021 1:03 PM	52:00	7.37 pH	17.99 °C	705.20 µS/cm	6.68 mg/L	0.96 NTU	34.9 mV	43.40 ft	0.35 PSU	110.00 ml/min
3/9/2021 1:07 PM	56:00	7.37 pH	18.17 °C	706.64 µS/cm	6.61 mg/L	1.00 NTU	34.7 mV	43.70 ft	0.35 PSU	110.00 ml/min

3/9/2021 1:11 PM	01:00:00	7.38 pH	18.17 °C	704.99 µS/cm	6.49 mg/L	1.39 NTU	34.6 mV	44.00 ft	0.35 PSU	110.00 ml/min
3/9/2021 1:15 PM	01:04:00	7.38 pH	17.90 °C	707.44 µS/cm	6.41 mg/L	1.47 NTU	34.6 mV	44.30 ft	0.35 PSU	110.00 ml/min

Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWC-23R

Report Properties
 Start Time = 2021-03-10 10:42:42
 Time Offset = -05:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO Concentration (mg/L) (789986)	RDO Saturation (%Sat) (789986)	Oxygen Partial Pressure (Torr) (789986)	Actual Conductivity (ÅµS/cm) (789301)	Temperature (Å°C) (789301)	Specific Conductivity (ÅµS/cm) (789301)	Salinity (PSU) (789301)	Total Dissolved Solids (ppt) (789301)	Resistivity (f@å...cm) (789301)	Density (g/cmÅ³) (789301)	Pressure (psi) (787061)	Depth (ft) (787061)	pH (pH) (21177)	pH mV (mV) (21177)	ORP (mV) (21177)	Barometric Pressure (mbar) (720817)	Temperature (Å°C) (720817)	Marked
3/10/2021 10:42	9.321882	97.98839	161.8392	602.4742	17.40398	704.7174	0.3466818	0.4580663	1659.822	0.9989728	-0.0832339	0.4444907	7.413059	-25.85526	59.36284	1008.01	20.33995	
3/10/2021 10:42	9.322068	97.9929	161.8463	602.4974	17.40564	704.7184	0.3466828	0.458067	1659.758	0.9989725	-0.08265825	0.4458185	7.412967	-25.85023	59.34474	1008.01	20.33961	
3/10/2021 10:42	9.323021	98.01505	161.8857	602.949	17.41321	705.1273	0.3468927	0.4583327	1658.515	0.9989713	-0.07070637	0.4733874	7.413867	-25.90355	59.0687	1008.036	20.33143	
3/10/2021 10:42	9.323118	98.01742	161.8896	602.9752	17.41425	705.1416	0.3469003	0.458342	1658.443	0.9989711	-0.06980373	0.4754695	7.413875	-25.90412	59.0512	1008.037	20.33107	
3/10/2021 10:42	9.323215	98.01978	161.8935	603.0013	17.41528	705.1559	0.3469078	0.4583513	1658.371	0.9989709	-0.06890109	0.4775516	7.413882	-25.90469	59.03369	1008.038	20.3307	
3/10/2021 10:42	9.319801	98.04527	161.9269	603.2779	17.44463	705.0172	0.3468438	0.4582611	1657.611	0.9989656	-0.08234897	0.4465319	7.412673	-25.8367	58.78258	1008.022	20.32196	
3/10/2021 10:42	9.31966	98.04687	161.9292	603.2986	17.44614	705.0178	0.3468444	0.4582615	1657.554	0.9989654	-0.08277591	0.445547	7.412632	-25.8344	58.76604	1008.021	20.32141	
3/10/2021 10:42	9.319519	98.04847	161.9315	603.3195	17.44764	705.0184	0.3468451	0.4582619	1657.497	0.9989651	-0.08320285	0.4445622	7.41259	-25.83209	58.7495	1008.021	20.32086	
3/10/2021 10:42	9.319378	98.05007	161.9338	603.3402	17.44914	705.019	0.3468457	0.4582623	1657.44	0.9989648	-0.0836298	0.4435774	7.412548	-25.82979	58.73296	1008.021	20.32031	
3/10/2021 10:43	9.316116	98.04179	161.92	603.6699	17.46281	705.1891	0.3469355	0.4583729	1656.534	0.9989624	-0.08279149	0.4455111	7.411448	-25.77083	58.47374	1008.037	20.32887	
3/10/2021 10:43	9.315903	98.04191	161.92	603.6901	17.464	705.1938	0.3469381	0.458376	1656.479	0.9989622	-0.08302129	0.4449811	7.411375	-25.76682	58.45722	1008.038	20.32909	

Low-Flow Test Report:

Test Date / Time: 3/9/2021 12:43:24 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-24R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.11 ft Total Depth: 40.11 ft Initial Depth to Water: 24.7 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 35.11 ft Estimated Total Volume Pumped: 9360 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.73 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 12:43 PM	00:00	7.32 pH	16.67 °C	653.88 µS/cm	0.34 mg/L	3.27 NTU	14.9 mV	24.70 ft	0.32 PSU	130.00 ml/min
3/9/2021 12:47 PM	04:00	7.39 pH	16.78 °C	648.15 µS/cm	0.17 mg/L	2.53 NTU	7.9 mV	25.38 ft	0.32 PSU	130.00 ml/min
3/9/2021 12:51 PM	08:00	7.45 pH	17.35 °C	638.35 µS/cm	0.28 mg/L	2.30 NTU	4.9 mV	25.43 ft	0.31 PSU	130.00 ml/min
3/9/2021 12:55 PM	12:00	7.52 pH	17.38 °C	623.32 µS/cm	0.54 mg/L	4.39 NTU	3.3 mV	25.43 ft	0.31 PSU	130.00 ml/min
3/9/2021 12:59 PM	16:00	7.58 pH	17.35 °C	612.68 µS/cm	0.85 mg/L	3.85 NTU	1.8 mV	25.43 ft	0.30 PSU	130.00 ml/min
3/9/2021 1:03 PM	20:00	7.62 pH	17.53 °C	601.85 µS/cm	1.18 mg/L	1.79 NTU	0.3 mV	25.43 ft	0.29 PSU	130.00 ml/min
3/9/2021 1:07 PM	24:00	7.64 pH	17.72 °C	592.49 µS/cm	1.51 mg/L	2.36 NTU	-0.6 mV	25.43 ft	0.29 PSU	130.00 ml/min
3/9/2021 1:11 PM	28:00	7.67 pH	17.53 °C	585.68 µS/cm	1.84 mg/L	1.58 NTU	-0.3 mV	25.43 ft	0.29 PSU	130.00 ml/min
3/9/2021 1:15 PM	32:00	7.69 pH	17.36 °C	583.10 µS/cm	2.16 mg/L	1.58 NTU	-1.0 mV	25.43 ft	0.29 PSU	130.00 ml/min
3/9/2021 1:19 PM	36:00	7.71 pH	17.22 °C	581.97 µS/cm	2.39 mg/L	1.55 NTU	-1.3 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:23 PM	40:00	7.73 pH	17.08 °C	577.99 µS/cm	2.65 mg/L	1.29 NTU	-1.3 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:27 PM	44:00	7.74 pH	17.00 °C	574.68 µS/cm	2.85 mg/L	1.56 NTU	-0.8 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:31 PM	48:00	7.75 pH	16.92 °C	572.76 µS/cm	3.00 mg/L	1.50 NTU	-1.6 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:35 PM	52:00	7.74 pH	16.98 °C	575.46 µS/cm	2.91 mg/L	1.38 NTU	-2.7 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:39 PM	56:00	7.77 pH	17.03 °C	569.80 µS/cm	3.22 mg/L	1.63 NTU	-2.3 mV	25.43 ft	0.28 PSU	130.00 ml/min

3/9/2021 1:43 PM	01:00:00	7.77 pH	17.22 °C	569.93 µS/cm	3.26 mg/L	1.29 NTU	-2.8 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:47 PM	01:04:00	7.78 pH	17.39 °C	568.54 µS/cm	3.38 mg/L	1.11 NTU	-2.5 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:51 PM	01:08:00	7.79 pH	17.71 °C	565.87 µS/cm	3.41 mg/L	1.38 NTU	-3.8 mV	25.43 ft	0.28 PSU	130.00 ml/min
3/9/2021 1:55 PM	01:12:00	7.80 pH	17.65 °C	561.51 µS/cm	3.58 mg/L	0.64 NTU	-3.3 mV	25.43 ft	0.27 PSU	130.00 ml/min

Samples

Sample ID:	Description:
GWC-24R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/9/2021 10:11:40 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-25R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89.97 ft Total Depth: 99.97 ft Initial Depth to Water: 23.61 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 94.97 ft Estimated Total Volume Pumped: 11500 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 10:11 AM	00:00	7.60 pH	13.93 °C	700.88 µS/cm	1.03 mg/L	1.24 NTU	49.9 mV	23.61 ft	0.34 PSU	125.00 ml/min
3/9/2021 10:15 AM	04:00	7.81 pH	15.01 °C	638.19 µS/cm	4.36 mg/L	0.63 NTU	50.0 mV	23.66 ft	0.31 PSU	125.00 ml/min
3/9/2021 10:19 AM	08:00	7.98 pH	15.23 °C	614.59 µS/cm	6.25 mg/L	0.86 NTU	58.0 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:23 AM	12:00	8.01 pH	15.37 °C	608.33 µS/cm	6.57 mg/L	0.40 NTU	58.3 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:27 AM	16:00	8.02 pH	15.46 °C	604.58 µS/cm	6.68 mg/L	0.84 NTU	55.6 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:31 AM	20:00	8.03 pH	15.51 °C	603.47 µS/cm	6.74 mg/L	0.59 NTU	53.0 mV	23.66 ft	0.29 PSU	125.00 ml/min
3/9/2021 10:35 AM	24:00	8.04 pH	15.56 °C	602.41 µS/cm	6.80 mg/L	0.66 NTU	51.7 mV	23.66 ft	0.29 PSU	125.00 ml/min
3/9/2021 10:39 AM	28:00	8.04 pH	15.56 °C	604.62 µS/cm	6.82 mg/L	0.52 NTU	50.8 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:43 AM	32:00	8.05 pH	15.60 °C	604.86 µS/cm	6.86 mg/L	0.64 NTU	50.1 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:47 AM	36:00	8.05 pH	15.64 °C	604.14 µS/cm	6.88 mg/L	0.63 NTU	50.0 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:51 AM	40:00	8.05 pH	15.67 °C	603.79 µS/cm	6.91 mg/L	0.61 NTU	49.6 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:55 AM	44:00	8.05 pH	15.75 °C	605.65 µS/cm	6.91 mg/L	0.64 NTU	49.2 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 10:59 AM	48:00	8.05 pH	15.82 °C	606.25 µS/cm	6.93 mg/L	1.11 NTU	49.0 mV	23.66 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:03 AM	52:00	8.06 pH	15.84 °C	606.38 µS/cm	6.93 mg/L	0.56 NTU	48.7 mV	23.64 ft	0.30 PSU	125.00 ml/min

3/9/2021 11:07 AM	56:00	8.05 pH	15.97 °C	605.53 µS/cm	6.94 mg/L	0.60 NTU	48.8 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:11 AM	01:00:00	8.06 pH	16.05 °C	606.04 µS/cm	6.95 mg/L	0.58 NTU	48.5 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:15 AM	01:04:00	8.06 pH	16.05 °C	606.22 µS/cm	6.95 mg/L	0.42 NTU	48.6 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:19 AM	01:08:00	8.06 pH	16.00 °C	607.65 µS/cm	6.98 mg/L	0.32 NTU	48.5 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:23 AM	01:12:00	8.06 pH	16.02 °C	607.34 µS/cm	6.99 mg/L	0.29 NTU	48.5 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:27 AM	01:16:00	8.07 pH	16.05 °C	606.28 µS/cm	7.01 mg/L	0.29 NTU	48.3 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:31 AM	01:20:00	8.07 pH	16.20 °C	606.28 µS/cm	7.01 mg/L	0.51 NTU	48.2 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:35 AM	01:24:00	8.06 pH	16.28 °C	607.40 µS/cm	7.01 mg/L	0.38 NTU	48.5 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:39 AM	01:28:00	8.07 pH	16.21 °C	606.81 µS/cm	7.00 mg/L	0.53 NTU	48.4 mV	23.62 ft	0.30 PSU	125.00 ml/min
3/9/2021 11:43 AM	01:32:00	8.07 pH	16.22 °C	605.59 µS/cm	7.01 mg/L	0.61 NTU	48.3 mV	23.62 ft	0.30 PSU	125.00 ml/min

Samples

Sample ID:	Description:
GWC-25R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/24/2021 1:42:49 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-36 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.77 ft Total Depth: 81.77 ft Initial Depth to Water: 31.43 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 76.77 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/24/2021 1:42 PM	00:00	6.69 pH	19.55 °C	141.98 µS/cm	4.90 mg/L	2.31 NTU	66.8 mV	31.45 ft	0.07 PSU	120.00 ml/min
2/24/2021 1:46 PM	04:00	6.69 pH	19.30 °C	144.34 µS/cm	5.58 mg/L	1.91 NTU	46.3 mV	31.45 ft	0.07 PSU	120.00 ml/min
2/24/2021 1:50 PM	08:00	6.69 pH	19.26 °C	141.90 µS/cm	5.79 mg/L	2.64 NTU	39.7 mV	31.45 ft	0.07 PSU	120.00 ml/min
2/24/2021 1:54 PM	12:00	6.69 pH	19.03 °C	141.68 µS/cm	5.95 mg/L	3.38 NTU	36.7 mV	31.45 ft	0.07 PSU	120.00 ml/min
2/24/2021 1:58 PM	16:00	6.69 pH	18.81 °C	141.53 µS/cm	6.01 mg/L	3.20 NTU	34.5 mV	31.45 ft	0.07 PSU	120.00 ml/min
2/24/2021 2:02 PM	20:00	6.69 pH	18.64 °C	141.22 µS/cm	6.04 mg/L	2.62 NTU	33.1 mV	31.45 ft	0.07 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWA-36	Metals, Inorganics, TDS
DUP-1	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/10/2021 10:57:56 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWA-36R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 79.56 ft Total Depth: 89.56 ft Initial Depth to Water: 31.27 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 84.56 ft Estimated Total Volume Pumped: 159600 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 42 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2021 10:57 AM	00:00	7.27 pH	17.57 °C	666.50 µS/cm	4.69 mg/L	721.00 NTU	56.6 mV	31.27 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:01 AM	04:00	7.28 pH	17.79 °C	678.40 µS/cm	4.67 mg/L	671.00 NTU	52.5 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:05 AM	08:00	7.26 pH	18.02 °C	684.64 µS/cm	4.60 mg/L	689.00 NTU	51.2 mV	31.51 ft	0.34 PSU	250.00 ml/min
3/10/2021 11:09 AM	12:00	7.28 pH	18.15 °C	679.70 µS/cm	4.50 mg/L	1,074.0 NTU	50.1 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:13 AM	16:00	7.30 pH	18.28 °C	671.59 µS/cm	4.47 mg/L	844.00 NTU	49.2 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:17 AM	20:00	7.31 pH	18.28 °C	667.64 µS/cm	4.49 mg/L	791.00 NTU	49.0 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:21 AM	24:00	7.31 pH	18.23 °C	669.27 µS/cm	4.49 mg/L	1,125.0 NTU	48.5 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:25 AM	28:00	7.31 pH	18.33 °C	669.51 µS/cm	4.51 mg/L	577.00 NTU	48.2 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:29 AM	32:00	7.31 pH	18.42 °C	668.12 µS/cm	4.51 mg/L	633.00 NTU	47.7 mV	31.51 ft	0.33 PSU	250.00 ml/min
3/10/2021 11:33 AM	36:00	7.31 pH	18.39 °C	658.90 µS/cm	4.51 mg/L	567.00 NTU	47.9 mV	31.51 ft	0.32 PSU	250.00 ml/min
3/10/2021 11:37 AM	40:00	7.30 pH	18.64 °C	657.53 µS/cm	4.49 mg/L	653.00 NTU	47.7 mV	31.54 ft	0.32 PSU	400.00 ml/min
3/10/2021 11:41 AM	44:00	7.29 pH	17.61 °C	660.23 µS/cm	4.63 mg/L	766.00 NTU	47.7 mV	31.54 ft	0.32 PSU	400.00 ml/min
3/10/2021 11:45 AM	48:00	7.30 pH	17.48 °C	659.02 µS/cm	4.52 mg/L	438.00 NTU	47.9 mV	31.51 ft	0.32 PSU	400.00 ml/min
3/10/2021 11:49 AM	52:00	7.28 pH	17.47 °C	667.19 µS/cm	4.48 mg/L	411.00 NTU	48.0 mV	31.54 ft	0.33 PSU	400.00 ml/min
3/10/2021 11:53 AM	56:00	7.27 pH	17.44 °C	672.30 µS/cm	4.48 mg/L	421.00 NTU	47.7 mV	31.54 ft	0.33 PSU	400.00 ml/min

3/10/2021 11:57 AM	01:00:00	7.26 pH	17.39 °C	673.50 µS/cm	4.47 mg/L	232.00 NTU	47.8 mV	31.54 ft	0.33 PSU	400.00 ml/min
3/10/2021 12:01 PM	01:04:00	7.25 pH	17.39 °C	676.33 µS/cm	4.52 mg/L	212.00 NTU	48.3 mV	31.54 ft	0.33 PSU	400.00 ml/min
3/10/2021 12:05 PM	01:08:00	7.23 pH	17.42 °C	685.21 µS/cm	4.52 mg/L	177.00 NTU	48.7 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:09 PM	01:12:00	7.22 pH	17.61 °C	688.22 µS/cm	4.56 mg/L	78.00 NTU	48.3 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:13 PM	01:16:00	7.22 pH	17.52 °C	689.04 µS/cm	4.47 mg/L	65.20 NTU	48.3 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:17 PM	01:20:00	7.22 pH	17.53 °C	686.49 µS/cm	4.47 mg/L	42.40 NTU	48.0 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:21 PM	01:24:00	7.23 pH	17.45 °C	684.19 µS/cm	4.43 mg/L	375.00 NTU	48.0 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:25 PM	01:28:00	7.24 pH	17.45 °C	682.80 µS/cm	4.44 mg/L	477.00 NTU	48.2 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:29 PM	01:32:00	7.24 pH	17.45 °C	684.27 µS/cm	4.44 mg/L	244.00 NTU	48.4 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:33 PM	01:36:00	7.23 pH	17.44 °C	687.50 µS/cm	4.44 mg/L	165.00 NTU	48.0 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:37 PM	01:40:00	7.21 pH	17.49 °C	689.32 µS/cm	4.44 mg/L	139.00 NTU	48.6 mV	31.54 ft	0.34 PSU	400.00 ml/min
3/10/2021 12:41 PM	01:44:00	7.20 pH	17.56 °C	703.60 µS/cm	4.45 mg/L	88.40 NTU	49.0 mV	31.54 ft	0.35 PSU	400.00 ml/min
3/10/2021 12:45 PM	01:48:00	7.19 pH	17.62 °C	705.91 µS/cm	4.47 mg/L	64.20 NTU	48.6 mV	31.54 ft	0.35 PSU	400.00 ml/min
3/10/2021 12:49 PM	01:52:00	7.18 pH	17.62 °C	711.60 µS/cm	4.46 mg/L	61.40 NTU	48.5 mV	31.54 ft	0.35 PSU	400.00 ml/min
3/10/2021 12:53 PM	01:56:00	7.18 pH	17.57 °C	710.83 µS/cm	4.45 mg/L	44.20 NTU	48.3 mV	31.54 ft	0.35 PSU	400.00 ml/min
3/10/2021 12:57 PM	02:00:00	7.18 pH	18.33 °C	715.03 µS/cm	4.42 mg/L	37.20 NTU	48.0 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:01 PM	02:04:00	7.18 pH	18.24 °C	714.38 µS/cm	4.42 mg/L	25.44 NTU	47.9 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:05 PM	02:08:00	7.18 pH	18.29 °C	714.88 µS/cm	4.42 mg/L	32.30 NTU	48.1 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:09 PM	02:12:00	7.18 pH	18.33 °C	711.31 µS/cm	4.44 mg/L	38.30 NTU	47.8 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:13 PM	02:16:00	7.18 pH	18.33 °C	711.38 µS/cm	4.45 mg/L	32.90 NTU	48.4 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:17 PM	02:20:00	7.19 pH	18.12 °C	709.11 µS/cm	4.46 mg/L	78.40 NTU	48.5 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:21 PM	02:24:00	7.20 pH	18.18 °C	706.81 µS/cm	4.38 mg/L	142.00 NTU	48.2 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:25 PM	02:28:00	7.22 pH	18.24 °C	700.83 µS/cm	4.36 mg/L	177.00 NTU	48.3 mV	31.44 ft	0.34 PSU	400.00 ml/min
3/10/2021 1:29 PM	02:32:00	7.22 pH	18.26 °C	703.07 µS/cm	4.36 mg/L	189.00 NTU	48.3 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:33 PM	02:36:00	7.22 pH	18.40 °C	703.03 µS/cm	4.38 mg/L	166.00 NTU	48.4 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:37 PM	02:40:00	7.22 pH	18.49 °C	701.22 µS/cm	4.38 mg/L	76.20 NTU	48.3 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:41 PM	02:44:00	7.22 pH	18.38 °C	703.79 µS/cm	4.39 mg/L	89.20 NTU	48.4 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:45 PM	02:48:00	7.22 pH	18.35 °C	706.85 µS/cm	4.40 mg/L	121.00 NTU	48.1 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:49 PM	02:52:00	7.21 pH	18.42 °C	706.72 µS/cm	4.40 mg/L	165.00 NTU	48.8 mV	31.44 ft	0.35 PSU	400.00 ml/min

3/10/2021 1:53 PM	02:56:00	7.22 pH	18.51 °C	704.55 µS/cm	4.41 mg/L	133.00 NTU	48.9 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 1:57 PM	03:00:00	7.23 pH	18.44 °C	699.20 µS/cm	4.38 mg/L	128.00 NTU	48.9 mV	31.44 ft	0.34 PSU	400.00 ml/min
3/10/2021 2:01 PM	03:04:00	7.24 pH	18.50 °C	697.06 µS/cm	4.38 mg/L	112.00 NTU	48.9 mV	31.44 ft	0.34 PSU	400.00 ml/min
3/10/2021 2:05 PM	03:08:00	7.24 pH	18.54 °C	698.79 µS/cm	4.39 mg/L	121.00 NTU	48.7 mV	31.44 ft	0.34 PSU	400.00 ml/min
3/10/2021 2:09 PM	03:12:00	7.25 pH	17.91 °C	697.46 µS/cm	5.32 mg/L	115.00 NTU	49.1 mV	31.44 ft	0.34 PSU	400.00 ml/min
3/10/2021 2:13 PM	03:16:00	7.23 pH	17.76 °C	704.64 µS/cm	5.28 mg/L	112.00 NTU	49.6 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 2:17 PM	03:20:00	7.20 pH	17.20 °C	703.09 µS/cm	5.02 mg/L	247.00 NTU	50.0 mV	31.44 ft	0.35 PSU	400.00 ml/min
3/10/2021 2:21 PM	03:24:00	7.19 pH	17.11 °C	701.49 µS/cm	4.84 mg/L	275.00 NTU	50.5 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:25 PM	03:28:00	7.19 pH	17.12 °C	697.40 µS/cm	4.77 mg/L	154.00 NTU	51.1 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:29 PM	03:32:00	7.18 pH	17.02 °C	696.16 µS/cm	4.88 mg/L	86.00 NTU	50.4 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:33 PM	03:36:00	7.17 pH	17.00 °C	697.68 µS/cm	5.16 mg/L	68.20 NTU	50.2 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:37 PM	03:40:00	7.17 pH	17.03 °C	696.96 µS/cm	5.35 mg/L	91.00 NTU	50.8 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:41 PM	03:44:00	7.16 pH	17.13 °C	698.46 µS/cm	5.46 mg/L	49.00 NTU	51.0 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:45 PM	03:48:00	7.16 pH	17.17 °C	696.24 µS/cm	4.95 mg/L	54.00 NTU	50.5 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:49 PM	03:52:00	7.15 pH	17.18 °C	696.75 µS/cm	4.97 mg/L	59.80 NTU	50.5 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:53 PM	03:56:00	7.14 pH	17.35 °C	698.20 µS/cm	4.87 mg/L	47.80 NTU	50.9 mV	31.57 ft	0.34 PSU	1,500.0 ml/min
3/10/2021 2:57 PM	04:00:00	7.13 pH	17.47 °C	696.60 µS/cm	4.73 mg/L	35.60 NTU	50.6 mV	31.52 ft	0.34 PSU	1,000.00 ml/min
3/10/2021 3:01 PM	04:04:00	7.13 pH	17.47 °C	695.70 µS/cm	4.50 mg/L	26.90 NTU	50.5 mV	31.52 ft	0.34 PSU	1,000.00 ml/min
3/10/2021 3:05 PM	04:08:00	7.13 pH	17.62 °C	697.62 µS/cm	4.45 mg/L	23.40 NTU	50.2 mV	31.52 ft	0.34 PSU	500.00 ml/min
3/10/2021 3:09 PM	04:12:00	7.13 pH	17.62 °C	699.59 µS/cm	4.37 mg/L	21.10 NTU	49.7 mV	31.52 ft	0.34 PSU	500.00 ml/min
3/10/2021 3:13 PM	04:16:00	7.14 pH	17.84 °C	698.76 µS/cm	4.34 mg/L	19.60 NTU	49.7 mV	31.52 ft	0.34 PSU	500.00 ml/min
3/10/2021 3:17 PM	04:20:00	7.14 pH	18.68 °C	702.58 µS/cm	4.33 mg/L	17.90 NTU	49.5 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:21 PM	04:24:00	7.14 pH	18.42 °C	702.53 µS/cm	4.32 mg/L	14.50 NTU	49.2 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:25 PM	04:28:00	7.14 pH	18.46 °C	702.70 µS/cm	4.30 mg/L	15.20 NTU	49.4 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:29 PM	04:32:00	7.14 pH	18.68 °C	703.20 µS/cm	4.30 mg/L	15.20 NTU	49.5 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:33 PM	04:36:00	7.14 pH	18.64 °C	700.51 µS/cm	4.29 mg/L	14.10 NTU	49.6 mV	31.52 ft	0.34 PSU	250.00 ml/min
3/10/2021 3:37 PM	04:40:00	7.14 pH	18.51 °C	699.80 µS/cm	4.31 mg/L	14.70 NTU	49.5 mV	31.52 ft	0.34 PSU	250.00 ml/min
3/10/2021 3:41 PM	04:44:00	7.14 pH	18.88 °C	701.76 µS/cm	4.32 mg/L	14.20 NTU	49.4 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:45 PM	04:48:00	7.14 pH	18.95 °C	697.76 µS/cm	4.28 mg/L	13.20 NTU	49.4 mV	31.52 ft	0.34 PSU	250.00 ml/min

3/10/2021 3:49 PM	04:52:00	7.14 pH	19.40 °C	699.68 µS/cm	4.28 mg/L	12.10 NTU	48.9 mV	31.52 ft	0.34 PSU	250.00 ml/min
3/10/2021 3:53 PM	04:56:00	7.14 pH	19.62 °C	701.17 µS/cm	4.27 mg/L	12.30 NTU	49.2 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 3:57 PM	05:00:00	7.15 pH	19.02 °C	700.09 µS/cm	4.29 mg/L	11.60 NTU	49.2 mV	31.52 ft	0.34 PSU	250.00 ml/min
3/10/2021 4:01 PM	05:04:00	7.14 pH	18.64 °C	701.91 µS/cm	4.35 mg/L	10.48 NTU	49.0 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 4:05 PM	05:08:00	7.15 pH	18.41 °C	703.04 µS/cm	4.37 mg/L	10.55 NTU	49.3 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 4:09 PM	05:12:00	7.15 pH	17.83 °C	698.18 µS/cm	4.36 mg/L	11.70 NTU	49.7 mV	31.52 ft	0.34 PSU	250.00 ml/min
3/10/2021 4:13 PM	05:16:00	7.15 pH	17.62 °C	704.14 µS/cm	4.42 mg/L	9.98 NTU	49.4 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 4:17 PM	05:20:00	7.15 pH	18.15 °C	706.15 µS/cm	4.39 mg/L	8.71 NTU	48.9 mV	31.52 ft	0.35 PSU	250.00 ml/min
3/10/2021 4:21 PM	05:24:00	7.15 pH	17.99 °C	703.89 µS/cm	4.39 mg/L	9.22 NTU	49.2 mV	31.52 ft	0.35 PSU	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/26/2021 11:18:42 AM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-36R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 79.56 ft Total Depth: 89.56 ft Initial Depth to Water: 30.24 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 84.56 ft Estimated Total Volume Pumped: 1600 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters. Turbidity started at 36NTU. Turbidity was rising during trolling and decision made to collect sample.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 11:18 AM	00:00	7.14 pH	19.38 °C	289.92 µS/cm	3.88 mg/L	6.63 NTU	135.0 mV	30.24 ft	0.14 PSU	100.00 ml/min
3/26/2021 11:22 AM	04:00	7.10 pH	19.14 °C	288.66 µS/cm	3.84 mg/L	6.98 NTU	90.8 mV	30.24 ft	0.14 PSU	100.00 ml/min
3/26/2021 11:26 AM	08:00	7.09 pH	19.41 °C	287.70 µS/cm	3.76 mg/L	7.62 NTU	74.8 mV	30.24 ft	0.14 PSU	100.00 ml/min
3/26/2021 11:30 AM	12:00	7.11 pH	18.99 °C	286.29 µS/cm	3.72 mg/L	8.27 NTU	64.8 mV	30.24 ft	0.14 PSU	100.00 ml/min
3/26/2021 11:34 AM	16:00	7.11 pH	19.36 °C	287.35 µS/cm	3.75 mg/L	9.82 NTU	59.8 mV	30.24 ft	0.14 PSU	100.00 ml/min

Samples

Sample ID:	Description:
GWA-36R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/24/2021 10:23:39 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

<p>Location Name: GWA-37 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 97.52 ft Total Depth: 107.52 ft Initial Depth to Water: 50.33 ft</p>	<p>Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 102.52 ft Estimated Total Volume Pumped: 16880 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 13.83 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 728648</p>
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/24/2021 10:23 AM	00:00	5.55 pH	17.58 °C	23.64 µS/cm	3.56 mg/L	5.36 NTU	50.6 mV	52.36 ft	0.01 PSU	160.00 ml/min
2/24/2021 10:27 AM	04:00	5.49 pH	17.60 °C	22.49 µS/cm	4.44 mg/L	10.57 NTU	35.8 mV	53.00 ft	0.01 PSU	160.00 ml/min
2/24/2021 10:31 AM	08:00	5.44 pH	17.72 °C	20.97 µS/cm	5.33 mg/L	1.86 NTU	42.1 mV	53.88 ft	0.01 PSU	160.00 ml/min
2/24/2021 10:35 AM	12:00	5.40 pH	17.99 °C	19.99 µS/cm	5.72 mg/L	2.47 NTU	53.5 mV	54.53 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:39 AM	16:00	5.37 pH	17.98 °C	19.51 µS/cm	5.90 mg/L	1.75 NTU	60.1 mV	55.05 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:43 AM	20:00	5.36 pH	17.98 °C	19.26 µS/cm	6.03 mg/L	1.20 NTU	64.8 mV	55.58 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:47 AM	24:00	5.34 pH	17.88 °C	19.15 µS/cm	6.07 mg/L	1.01 NTU	71.1 mV	56.03 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:51 AM	28:00	5.35 pH	18.15 °C	19.19 µS/cm	6.05 mg/L	1.25 NTU	76.1 mV	56.52 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:55 AM	32:00	5.36 pH	18.32 °C	19.24 µS/cm	6.01 mg/L	1.65 NTU	79.0 mV	56.96 ft	0.01 PSU	110.00 ml/min
2/24/2021 10:59 AM	36:00	5.35 pH	18.37 °C	19.38 µS/cm	5.97 mg/L	1.12 NTU	81.2 mV	57.37 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:03 AM	40:00	5.37 pH	18.41 °C	19.46 µS/cm	5.92 mg/L	0.96 NTU	82.9 mV	57.75 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:07 AM	44:00	5.37 pH	18.40 °C	19.58 µS/cm	5.88 mg/L	1.24 NTU	83.7 mV	58.14 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:11 AM	48:00	5.38 pH	18.55 °C	19.71 µS/cm	5.84 mg/L	0.97 NTU	85.1 mV	58.52 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:15 AM	52:00	5.40 pH	18.73 °C	19.79 µS/cm	5.81 mg/L	1.11 NTU	85.4 mV	58.86 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:19 AM	56:00	5.41 pH	18.68 °C	19.91 µS/cm	5.77 mg/L	1.25 NTU	85.0 mV	59.20 ft	0.01 PSU	110.00 ml/min

2/24/2021 11:23 AM	01:00:00	5.41 pH	18.77 °C	20.02 µS/cm	5.68 mg/L	0.97 NTU	86.9 mV	59.51 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:27 AM	01:04:00	5.41 pH	18.86 °C	20.22 µS/cm	5.67 mg/L	1.13 NTU	88.3 mV	59.83 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:31 AM	01:08:00	5.42 pH	18.81 °C	20.33 µS/cm	5.62 mg/L	0.92 NTU	87.9 mV	60.14 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:35 AM	01:12:00	5.43 pH	18.95 °C	20.38 µS/cm	5.57 mg/L	1.06 NTU	88.8 mV	60.43 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:39 AM	01:16:00	5.43 pH	19.17 °C	20.51 µS/cm	5.57 mg/L	1.17 NTU	89.3 mV	60.72 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:43 AM	01:20:00	5.43 pH	19.30 °C	20.57 µS/cm	5.49 mg/L	1.12 NTU	90.2 mV	60.95 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:47 AM	01:24:00	5.44 pH	19.24 °C	20.62 µS/cm	5.46 mg/L	0.91 NTU	90.3 mV	61.20 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:51 AM	01:28:00	5.45 pH	19.22 °C	20.68 µS/cm	5.43 mg/L	1.12 NTU	89.9 mV	61.45 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:55 AM	01:32:00	5.44 pH	19.31 °C	20.83 µS/cm	5.41 mg/L	0.89 NTU	90.3 mV	61.67 ft	0.01 PSU	110.00 ml/min
2/24/2021 11:59 AM	01:36:00	5.45 pH	19.48 °C	20.85 µS/cm	5.40 mg/L	0.95 NTU	91.2 mV	61.90 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:03 PM	01:40:00	5.46 pH	19.60 °C	20.86 µS/cm	5.41 mg/L	0.98 NTU	90.3 mV	62.12 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:07 PM	01:44:00	5.45 pH	19.57 °C	21.09 µS/cm	5.35 mg/L	1.18 NTU	91.7 mV	62.31 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:11 PM	01:48:00	5.45 pH	19.81 °C	20.98 µS/cm	5.30 mg/L	1.14 NTU	91.6 mV	62.52 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:15 PM	01:52:00	5.46 pH	19.75 °C	21.12 µS/cm	5.31 mg/L	1.07 NTU	92.0 mV	62.70 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:19 PM	01:56:00	5.46 pH	19.76 °C	21.10 µS/cm	5.27 mg/L	0.90 NTU	92.8 mV	62.91 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:23 PM	02:00:00	5.47 pH	19.88 °C	21.21 µS/cm	5.28 mg/L	0.82 NTU	91.8 mV	63.10 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:27 PM	02:04:00	5.45 pH	20.09 °C	21.17 µS/cm	5.22 mg/L	0.82 NTU	93.3 mV	63.26 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:31 PM	02:08:00	5.48 pH	20.13 °C	21.20 µS/cm	5.22 mg/L	0.95 NTU	92.3 mV	63.42 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:35 PM	02:12:00	5.48 pH	20.19 °C	21.33 µS/cm	5.22 mg/L	0.75 NTU	92.3 mV	63.60 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:39 PM	02:16:00	5.48 pH	20.15 °C	21.30 µS/cm	5.20 mg/L	0.97 NTU	93.5 mV	63.75 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:43 PM	02:20:00	5.49 pH	20.42 °C	21.40 µS/cm	5.19 mg/L	1.03 NTU	92.9 mV	63.88 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:47 PM	02:24:00	5.48 pH	20.28 °C	21.34 µS/cm	5.16 mg/L	0.93 NTU	92.6 mV	64.00 ft	0.01 PSU	110.00 ml/min
2/24/2021 12:51 PM	02:28:00	5.49 pH	20.35 °C	21.45 µS/cm	5.16 mg/L	0.74 NTU	93.5 mV	64.16 ft	0.01 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWA-37	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/24/2021 10:30:46 AM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-38 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.35 ft Total Depth: 69.35 ft Initial Depth to Water: 53.37 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 62.29 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/24/2021 10:30 AM	00:00	6.59 pH	17.56 °C	97.71 µS/cm	8.19 mg/L	0.39 NTU	144.1 mV	54.13 ft	0.05 PSU	120.00 ml/min
2/24/2021 10:34 AM	04:00	5.30 pH	17.56 °C	40.55 µS/cm	7.35 mg/L	0.26 NTU	98.3 mV	54.20 ft	0.02 PSU	120.00 ml/min
2/24/2021 10:38 AM	08:00	5.26 pH	17.59 °C	37.58 µS/cm	7.33 mg/L	0.22 NTU	93.1 mV	54.28 ft	0.02 PSU	120.00 ml/min
2/24/2021 10:42 AM	12:00	5.25 pH	17.58 °C	36.89 µS/cm	7.32 mg/L	0.27 NTU	90.3 mV	54.34 ft	0.02 PSU	120.00 ml/min
2/24/2021 10:46 AM	16:00	5.25 pH	17.61 °C	36.17 µS/cm	7.32 mg/L	0.23 NTU	88.1 mV	54.43 ft	0.02 PSU	120.00 ml/min
2/24/2021 10:50 AM	20:00	5.24 pH	17.73 °C	35.78 µS/cm	7.30 mg/L	0.26 NTU	88.1 mV	54.49 ft	0.02 PSU	120.00 ml/min
2/24/2021 10:54 AM	24:00	5.23 pH	17.76 °C	34.97 µS/cm	7.32 mg/L	0.20 NTU	86.2 mV	54.53 ft	0.02 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWA-38	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/15/2021 10:10:31 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-39RZ Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 137.4 ft Total Depth: 147.4 ft Initial Depth to Water: 64.32 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 142.4 ft Estimated Total Volume Pumped: 68600 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 73.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Drawdown would not stabilize. Pump rate raised to 200 mL/min at 01:40:00 and to 250 mL/min at 02:08:00. Water level drew down into screen interval; full evac performed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/15/2021 10:10 AM	00:00	7.54 pH	15.70 °C	310.84 µS/cm	0.65 mg/L	4.81 NTU	-6.2 mV	66.63 ft	0.15 PSU	110.00 ml/min
3/15/2021 10:14 AM	04:00	7.54 pH	15.72 °C	308.67 µS/cm	0.51 mg/L	4.66 NTU	-20.7 mV	67.05 ft	0.15 PSU	110.00 ml/min
3/15/2021 10:18 AM	08:00	7.54 pH	15.72 °C	307.75 µS/cm	0.42 mg/L	4.60 NTU	-31.1 mV	67.61 ft	0.15 PSU	110.00 ml/min
3/15/2021 10:22 AM	12:00	7.54 pH	15.75 °C	305.93 µS/cm	0.37 mg/L	4.67 NTU	-38.2 mV	68.13 ft	0.15 PSU	110.00 ml/min
3/15/2021 10:26 AM	16:00	7.52 pH	15.76 °C	304.22 µS/cm	0.34 mg/L	3.72 NTU	-43.9 mV	68.65 ft	0.15 PSU	110.00 ml/min
3/15/2021 10:30 AM	20:00	7.51 pH	15.75 °C	301.42 µS/cm	0.32 mg/L	3.36 NTU	-46.1 mV	69.14 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:34 AM	24:00	7.50 pH	15.71 °C	298.65 µS/cm	0.29 mg/L	3.97 NTU	-46.5 mV	69.64 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:38 AM	28:00	7.48 pH	15.75 °C	296.26 µS/cm	0.27 mg/L	3.63 NTU	-46.5 mV	70.19 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:42 AM	32:00	7.47 pH	15.77 °C	294.15 µS/cm	0.25 mg/L	3.65 NTU	-46.5 mV	70.61 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:46 AM	36:00	7.46 pH	15.77 °C	292.94 µS/cm	0.25 mg/L	3.34 NTU	-47.7 mV	71.17 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:50 AM	40:00	7.46 pH	15.79 °C	292.13 µS/cm	0.24 mg/L	3.44 NTU	-49.1 mV	71.52 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:54 AM	44:00	7.46 pH	15.80 °C	292.29 µS/cm	0.24 mg/L	3.53 NTU	-49.9 mV	71.96 ft	0.14 PSU	110.00 ml/min
3/15/2021 10:58 AM	48:00	7.47 pH	15.80 °C	291.85 µS/cm	0.23 mg/L	3.60 NTU	-50.4 mV	72.40 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:02 AM	52:00	7.47 pH	15.84 °C	291.91 µS/cm	0.23 mg/L	3.50 NTU	-52.3 mV	72.85 ft	0.14 PSU	110.00 ml/min

3/15/2021 11:06 AM	56:00	7.48 pH	15.90 °C	291.53 µS/cm	0.22 mg/L	3.28 NTU	-52.6 mV	73.32 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:10 AM	01:00:00	7.48 pH	15.89 °C	291.31 µS/cm	0.22 mg/L	3.76 NTU	-54.0 mV	73.68 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:14 AM	01:04:00	7.48 pH	15.92 °C	291.39 µS/cm	0.22 mg/L	3.30 NTU	-54.2 mV	74.09 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:18 AM	01:08:00	7.49 pH	15.95 °C	291.30 µS/cm	0.23 mg/L	3.69 NTU	-54.5 mV	74.48 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:22 AM	01:12:00	7.49 pH	16.06 °C	290.83 µS/cm	0.24 mg/L	3.44 NTU	-53.8 mV	74.90 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:26 AM	01:16:00	7.49 pH	16.07 °C	290.62 µS/cm	0.25 mg/L	3.30 NTU	-53.8 mV	75.27 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:30 AM	01:20:00	7.49 pH	16.16 °C	290.84 µS/cm	0.29 mg/L	3.32 NTU	-53.5 mV	75.65 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:34 AM	01:24:00	7.49 pH	16.20 °C	289.78 µS/cm	0.31 mg/L	3.21 NTU	-52.1 mV	76.06 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:38 AM	01:28:00	7.49 pH	16.20 °C	289.90 µS/cm	0.36 mg/L	3.61 NTU	-49.8 mV	76.44 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:42 AM	01:32:00	7.50 pH	16.22 °C	289.83 µS/cm	0.40 mg/L	3.51 NTU	-48.2 mV	76.81 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:46 AM	01:36:00	7.50 pH	16.15 °C	289.46 µS/cm	0.45 mg/L	3.60 NTU	-47.1 mV	77.20 ft	0.14 PSU	110.00 ml/min
3/15/2021 11:50 AM	01:40:00	7.50 pH	15.93 °C	289.44 µS/cm	0.49 mg/L	3.63 NTU	-44.9 mV	77.90 ft	0.14 PSU	200.00 ml/min
3/15/2021 11:54 AM	01:44:00	7.46 pH	15.98 °C	286.04 µS/cm	0.39 mg/L	4.53 NTU	-36.0 mV	78.79 ft	0.14 PSU	200.00 ml/min
3/15/2021 11:58 AM	01:48:00	7.45 pH	16.02 °C	285.35 µS/cm	0.41 mg/L	4.82 NTU	-31.7 mV	79.65 ft	0.14 PSU	200.00 ml/min
3/15/2021 12:02 PM	01:52:00	7.45 pH	16.02 °C	285.29 µS/cm	0.44 mg/L	4.63 NTU	-29.2 mV	80.76 ft	0.14 PSU	200.00 ml/min
3/15/2021 12:06 PM	01:56:00	7.45 pH	16.03 °C	285.98 µS/cm	0.46 mg/L	5.08 NTU	-28.4 mV	81.43 ft	0.14 PSU	200.00 ml/min
3/15/2021 12:10 PM	02:00:00	7.45 pH	15.95 °C	286.59 µS/cm	0.50 mg/L	5.89 NTU	-27.3 mV	82.32 ft	0.14 PSU	200.00 ml/min
3/15/2021 12:14 PM	02:04:00	7.44 pH	15.98 °C	286.43 µS/cm	0.57 mg/L	6.46 NTU	-25.6 mV	83.26 ft	0.14 PSU	200.00 ml/min
3/15/2021 12:18 PM	02:08:00	7.44 pH	15.99 °C	286.17 µS/cm	0.54 mg/L	7.27 NTU	-22.2 mV	84.38 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:22 PM	02:12:00	7.44 pH	15.98 °C	285.85 µS/cm	0.61 mg/L	7.61 NTU	-19.0 mV	85.60 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:26 PM	02:16:00	7.44 pH	16.02 °C	286.62 µS/cm	0.67 mg/L	7.77 NTU	-18.0 mV	86.74 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:30 PM	02:20:00	7.44 pH	16.02 °C	286.99 µS/cm	0.71 mg/L	8.39 NTU	-16.8 mV	87.89 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:34 PM	02:24:00	7.44 pH	15.91 °C	286.88 µS/cm	0.76 mg/L	8.27 NTU	-15.5 mV	89.03 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:38 PM	02:28:00	7.44 pH	15.92 °C	287.06 µS/cm	0.82 mg/L	8.06 NTU	-14.0 mV	90.24 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:42 PM	02:32:00	7.44 pH	15.93 °C	287.66 µS/cm	0.90 mg/L	8.54 NTU	-12.4 mV	91.34 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:46 PM	02:36:00	7.44 pH	15.88 °C	287.79 µS/cm	0.94 mg/L	7.85 NTU	-10.6 mV	92.50 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:50 PM	02:40:00	7.44 pH	15.84 °C	288.88 µS/cm	0.93 mg/L	7.40 NTU	-10.2 mV	93.64 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:54 PM	02:44:00	7.45 pH	15.87 °C	288.95 µS/cm	1.03 mg/L	7.73 NTU	-8.7 mV	94.75 ft	0.14 PSU	250.00 ml/min
3/15/2021 12:58 PM	02:48:00	7.45 pH	15.86 °C	288.88 µS/cm	1.02 mg/L	6.97 NTU	-7.4 mV	95.83 ft	0.14 PSU	250.00 ml/min

3/15/2021 1:02 PM	02:52:00	7.45 pH	15.88 °C	289.25 µS/cm	1.03 mg/L	6.96 NTU	-6.9 mV	97.02 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:06 PM	02:56:00	7.45 pH	15.86 °C	289.43 µS/cm	1.13 mg/L	6.08 NTU	-5.1 mV	98.12 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:10 PM	03:00:00	7.45 pH	15.87 °C	290.77 µS/cm	1.13 mg/L	5.56 NTU	-4.4 mV	99.23 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:14 PM	03:04:00	7.45 pH	15.84 °C	290.81 µS/cm	1.17 mg/L	5.45 NTU	-3.4 mV	100.34 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:18 PM	03:08:00	7.46 pH	15.84 °C	290.76 µS/cm	1.22 mg/L	5.37 NTU	-2.6 mV	101.43 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:22 PM	03:12:00	7.45 pH	15.88 °C	290.89 µS/cm	1.27 mg/L	5.16 NTU	-1.8 mV	102.51 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:26 PM	03:16:00	7.45 pH	15.89 °C	292.00 µS/cm	1.29 mg/L	5.10 NTU	-1.3 mV	103.65 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:30 PM	03:20:00	7.46 pH	15.88 °C	292.33 µS/cm	1.31 mg/L	5.20 NTU	-0.9 mV	104.72 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:34 PM	03:24:00	7.46 pH	15.89 °C	293.31 µS/cm	1.38 mg/L	5.02 NTU	0.0 mV	105.79 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:38 PM	03:28:00	7.46 pH	15.89 °C	294.24 µS/cm	1.36 mg/L	5.01 NTU	0.5 mV	106.85 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:42 PM	03:32:00	7.46 pH	15.93 °C	294.75 µS/cm	1.47 mg/L	4.84 NTU	1.2 mV	107.96 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:46 PM	03:36:00	7.47 pH	15.93 °C	295.42 µS/cm	1.56 mg/L	5.00 NTU	1.6 mV	109.00 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:50 PM	03:40:00	7.47 pH	16.11 °C	297.07 µS/cm	1.53 mg/L	4.35 NTU	1.8 mV	110.03 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:54 PM	03:44:00	7.47 pH	16.24 °C	296.95 µS/cm	1.48 mg/L	4.25 NTU	1.6 mV	111.04 ft	0.14 PSU	250.00 ml/min
3/15/2021 1:58 PM	03:48:00	7.47 pH	16.24 °C	298.70 µS/cm	1.52 mg/L	3.95 NTU	2.1 mV	112.05 ft	0.14 PSU	250.00 ml/min
3/15/2021 2:02 PM	03:52:00	7.47 pH	16.38 °C	299.69 µS/cm	1.50 mg/L	3.98 NTU	1.8 mV	113.06 ft	0.14 PSU	250.00 ml/min
3/15/2021 2:06 PM	03:56:00	7.47 pH	16.20 °C	300.16 µS/cm	1.52 mg/L	4.02 NTU	2.0 mV	114.11 ft	0.14 PSU	250.00 ml/min
3/15/2021 2:10 PM	04:00:00	7.48 pH	16.20 °C	301.87 µS/cm	1.51 mg/L	4.23 NTU	2.0 mV	115.09 ft	0.14 PSU	250.00 ml/min
3/15/2021 2:14 PM	04:04:00	7.48 pH	16.29 °C	303.06 µS/cm	1.51 mg/L	3.74 NTU	1.8 mV	116.08 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:18 PM	04:08:00	7.48 pH	16.25 °C	303.19 µS/cm	1.53 mg/L	3.97 NTU	2.1 mV	117.04 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:22 PM	04:12:00	7.48 pH	16.20 °C	304.93 µS/cm	1.56 mg/L	3.18 NTU	2.8 mV	118.06 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:26 PM	04:16:00	7.49 pH	16.11 °C	306.43 µS/cm	1.60 mg/L	3.45 NTU	2.7 mV	119.03 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:30 PM	04:20:00	7.49 pH	16.11 °C	305.83 µS/cm	1.63 mg/L	3.36 NTU	3.0 mV	119.97 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:34 PM	04:24:00	7.49 pH	16.11 °C	308.02 µS/cm	1.68 mg/L	3.29 NTU	2.8 mV	120.91 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:38 PM	04:28:00	7.49 pH	16.07 °C	309.91 µS/cm	1.73 mg/L	3.14 NTU	3.0 mV	121.85 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:42 PM	04:32:00	7.49 pH	16.09 °C	309.74 µS/cm	1.75 mg/L	3.22 NTU	3.0 mV	122.84 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:46 PM	04:36:00	7.49 pH	16.06 °C	312.82 µS/cm	1.78 mg/L	3.20 NTU	3.0 mV	123.78 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:50 PM	04:40:00	7.49 pH	16.06 °C	311.52 µS/cm	1.81 mg/L	3.02 NTU	2.9 mV	124.70 ft	0.15 PSU	250.00 ml/min
3/15/2021 2:54 PM	04:44:00	7.49 pH	16.06 °C	314.76 µS/cm	1.85 mg/L	2.95 NTU	3.2 mV	125.65 ft	0.15 PSU	250.00 ml/min

3/15/2021 2:58 PM	04:48:00	7.50 pH	16.07 °C	316.68 µS/cm	1.86 mg/L	2.85 NTU	3.2 mV	126.60 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:02 PM	04:52:00	7.50 pH	16.10 °C	316.98 µS/cm	1.89 mg/L	2.91 NTU	3.4 mV	127.58 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:06 PM	04:56:00	7.50 pH	16.06 °C	319.51 µS/cm	1.94 mg/L	2.98 NTU	3.5 mV	128.55 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:10 PM	05:00:00	7.50 pH	16.06 °C	321.46 µS/cm	1.94 mg/L	3.32 NTU	3.6 mV	129.43 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:14 PM	05:04:00	7.50 pH	16.05 °C	322.77 µS/cm	1.99 mg/L	3.13 NTU	3.6 mV	130.35 ft	0.16 PSU	250.00 ml/min
3/15/2021 3:18 PM	05:08:00	7.51 pH	16.01 °C	329.06 µS/cm	2.08 mg/L	3.07 NTU	3.7 mV	130.68 ft	0.16 PSU	250.00 ml/min
3/15/2021 3:22 PM	05:12:00	7.53 pH	16.02 °C	349.63 µS/cm	2.31 mg/L	18.20 NTU	1.7 mV	131.25 ft	0.17 PSU	250.00 ml/min
3/15/2021 3:26 PM	05:16:00	7.55 pH	16.02 °C	351.90 µS/cm	2.24 mg/L	19.90 NTU	-11.6 mV	132.35 ft	0.17 PSU	250.00 ml/min
3/15/2021 3:30 PM	05:20:00	7.58 pH	16.02 °C	344.08 µS/cm	1.79 mg/L	19.00 NTU	-37.8 mV	133.40 ft	0.17 PSU	250.00 ml/min
3/15/2021 3:34 PM	05:24:00	7.63 pH	16.01 °C	319.88 µS/cm	1.39 mg/L	13.30 NTU	-65.6 mV	134.45 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:38 PM	05:28:00	7.64 pH	15.98 °C	309.12 µS/cm	1.19 mg/L	7.51 NTU	-83.7 mV	135.50 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:42 PM	05:32:00	7.64 pH	15.96 °C	307.29 µS/cm	1.18 mg/L	4.63 NTU	-96.3 mV	136.55 ft	0.15 PSU	250.00 ml/min
3/15/2021 3:46 PM	05:36:00	7.65 pH	16.20 °C	307.26 µS/cm	1.24 mg/L	3.91 NTU	-93.8 mV	137.60 ft	0.15 PSU	250.00 ml/min

Samples

Sample ID:	Description:
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Location Properties
 Location Name = Device Location

GWA-39RZ

Report Properties
 Start Time = 2021-03-16 10:03:28
 Time Offset = -04:00:00
 Duration = 00:00:20
 Readings = 11

Instrument Properties
 Device Model = Aqua TROLL 400
 Device SN = 789301

Instrument Properties
 Device Model = PowerPack
 Device SN = 720817

Date Time	RDO Concentration (mg/L) (789986)	RDO Saturation (%Sat) (789986)	Oxygen Partial Pressure (Torr) (789986)	Actual Conductivity (ÅµS/cm) (789301)	Temperature (Å°C) (789301)	Specific Conductivity (ÅµS/cm) (789301)	Salinity (PSU) (789301)	Total Dissolved Solids (ppt) (789301)	Resistivity (Î©â€¦cm) (789301)	Density (g/cmÅ³) (789301)	Pressure (psi) (787061)	Depth (ft) (787061)	pH (pH) (21177)	pH mV (mV) (21177)	ORP (mV) (21177)	Barometric Pressure (mbar) (720817)	Temperature (Å°C) (720817)	Marked
3/16/2021 10:03	7.134706	68.48227	110.6788	215.565	12.58112	282.5972	0.1348979	0.1836882	4638.972	0.9995367	-0.0871493	0.4354591	7.851985	-50.37657	60.55117	994.0461	10.32872	
3/16/2021 10:03	7.128105	68.42046	110.5789	215.5632	12.58125	282.5939	0.1348963	0.183686	4639.011	0.9995367	-0.08693414	0.4359554	7.85183	-50.368	60.51902	994.0469	10.32911	
3/16/2021 10:03	7.121503	68.35865	110.4789	215.5613	12.58138	282.5906	0.1348947	0.1836839	4639.05	0.9995366	-0.08671898	0.4364517	7.851676	-50.35944	60.48687	994.0478	10.32951	
3/16/2021 10:03	7.034442	67.55412	109.1721	215.5379	12.61895	282.2944	0.1347574	0.1834914	4639.554	0.999532	-0.09847327	0.4093386	7.849502	-50.23993	60.0771	994.006	10.32119	
3/16/2021 10:03	7.02842	67.49838	109.0817	215.5363	12.62073	282.2796	0.1347506	0.1834818	4639.59	0.9995317	-0.09894334	0.4082543	7.84936	-50.23213	60.04914	994.0048	10.32097	
3/16/2021 10:03	7.022398	67.44264	108.9913	215.5346	12.62252	282.2648	0.1347437	0.1834721	4639.626	0.9995315	-0.0994134	0.40717	7.849218	-50.22434	60.02119	994.0035	10.32075	
3/16/2021 10:03	7.016377	67.38689	108.9009	215.5329	12.62431	282.25	0.1347368	0.1834625	4639.663	0.9995313	-0.09988347	0.4060857	7.849076	-50.21654	59.99323	994.0022	10.32053	
3/16/2021 10:03	6.938917	66.64145	107.6981	215.5318	12.62451	282.2471	0.1347354	0.1834606	4639.686	0.9995313	-0.07137072	0.471855	7.846838	-50.09291	59.66625	994.0184	10.31181	
3/16/2021 10:03	6.933742	66.5923	107.6186	215.5313	12.62525	282.2412	0.1347327	0.1834568	4639.697	0.9995312	-0.07033248	0.4742498	7.846696	-50.08505	59.64357	994.0182	10.31127	
3/16/2021 10:03	6.928566	66.54315	107.5391	215.5308	12.62599	282.2353	0.1347299	0.1834529	4639.708	0.9995311	-0.06929425	0.4766447	7.846553	-50.07719	59.62089	994.0182	10.31073	
3/16/2021 10:03	6.92339	66.494	107.4596	215.5303	12.62673	282.2294	0.1347272	0.1834491	4639.72	0.999531	-0.06825601	0.4790395	7.846411	-50.06933	59.59821	994.0181	10.31018	

Low-Flow Test Report:

Test Date / Time: 3/12/2021 12:11:49 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-39Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 107.54 ft Total Depth: 117.54 ft Initial Depth to Water: 65.72 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 112.54 ft Estimated Total Volume Pumped: 6360 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0.35 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Pulled and reset dedicated pump to inspect and clean air blockage, prior to pumping. Prepurged 5 L at 150 mL/min.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/12/2021 12:11 PM	00:00	6.27 pH	16.78 °C	96.17 µS/cm	7.54 mg/L	6.64 NTU	56.1 mV	66.13 ft	0.04 PSU	130.00 ml/min
3/12/2021 12:15 PM	04:00	6.28 pH	16.65 °C	96.13 µS/cm	7.64 mg/L	6.59 NTU	44.6 mV	66.13 ft	0.04 PSU	130.00 ml/min
3/12/2021 12:19 PM	08:00	6.28 pH	16.64 °C	96.28 µS/cm	7.70 mg/L	6.15 NTU	42.4 mV	66.13 ft	0.04 PSU	130.00 ml/min
3/12/2021 12:23 PM	12:00	6.29 pH	16.73 °C	96.67 µS/cm	7.76 mg/L	5.92 NTU	41.9 mV	66.13 ft	0.05 PSU	130.00 ml/min
3/12/2021 12:27 PM	16:00	6.29 pH	16.68 °C	96.85 µS/cm	7.82 mg/L	5.67 NTU	42.4 mV	66.13 ft	0.05 PSU	130.00 ml/min
3/12/2021 12:31 PM	20:00	6.30 pH	16.61 °C	97.19 µS/cm	7.89 mg/L	5.90 NTU	38.5 mV	66.13 ft	0.05 PSU	130.00 ml/min
3/12/2021 12:35 PM	24:00	6.32 pH	16.65 °C	98.39 µS/cm	7.90 mg/L	5.76 NTU	38.1 mV	66.13 ft	0.05 PSU	130.00 ml/min
3/12/2021 12:39 PM	28:00	6.33 pH	16.75 °C	99.81 µS/cm	7.93 mg/L	5.69 NTU	36.7 mV	66.13 ft	0.05 PSU	130.00 ml/min
3/12/2021 12:43 PM	32:00	6.34 pH	16.92 °C	101.21 µS/cm	7.86 mg/L	5.33 NTU	35.3 mV	66.08 ft	0.05 PSU	110.00 ml/min
3/12/2021 12:47 PM	36:00	6.35 pH	16.96 °C	102.70 µS/cm	7.84 mg/L	5.41 NTU	35.1 mV	66.07 ft	0.05 PSU	110.00 ml/min
3/12/2021 12:51 PM	40:00	6.36 pH	17.10 °C	104.71 µS/cm	7.87 mg/L	5.74 NTU	34.2 mV	66.07 ft	0.05 PSU	110.00 ml/min
3/12/2021 12:55 PM	44:00	6.38 pH	17.14 °C	106.68 µS/cm	7.89 mg/L	4.53 NTU	33.8 mV	66.07 ft	0.05 PSU	110.00 ml/min
3/12/2021 12:59 PM	48:00	6.39 pH	17.14 °C	108.49 µS/cm	7.90 mg/L	4.42 NTU	33.2 mV	66.07 ft	0.05 PSU	110.00 ml/min
3/12/2021 1:03 PM	52:00	6.39 pH	17.27 °C	109.93 µS/cm	7.94 mg/L	4.17 NTU	33.1 mV	66.07 ft	0.05 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWA-39Z	Metals, Inorganics, TDS
DUP-2	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/10/2021 3:33:03 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-40 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 144.8 ft Total Depth: 154.8 ft Initial Depth to Water: 66.78 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 149.8 ft Estimated Total Volume Pumped: 6400 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 1 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2021 3:33 PM	00:00	7.11 pH	21.29 °C	168.75 µS/cm	1.57 mg/L	0.34 NTU	30.3 mV	66.80 ft	0.08 PSU	160.00 ml/min
3/10/2021 3:37 PM	04:00	6.80 pH	18.46 °C	172.46 µS/cm	5.51 mg/L	0.35 NTU	28.2 mV	66.80 ft	0.08 PSU	160.00 ml/min
3/10/2021 3:41 PM	08:00	6.92 pH	17.94 °C	173.84 µS/cm	8.02 mg/L	0.81 NTU	29.9 mV	66.80 ft	0.08 PSU	160.00 ml/min
3/10/2021 3:45 PM	12:00	6.97 pH	17.86 °C	175.72 µS/cm	8.45 mg/L	0.72 NTU	31.0 mV	66.80 ft	0.08 PSU	160.00 ml/min
3/10/2021 3:49 PM	16:00	6.99 pH	18.04 °C	181.39 µS/cm	8.41 mg/L	0.82 NTU	31.6 mV	66.81 ft	0.09 PSU	160.00 ml/min
3/10/2021 3:53 PM	20:00	7.11 pH	18.12 °C	202.05 µS/cm	8.07 mg/L	0.49 NTU	30.5 mV	66.81 ft	0.10 PSU	160.00 ml/min
3/10/2021 3:57 PM	24:00	7.19 pH	17.99 °C	208.31 µS/cm	7.95 mg/L	0.44 NTU	30.1 mV	66.81 ft	0.10 PSU	160.00 ml/min
3/10/2021 4:01 PM	28:00	7.22 pH	17.72 °C	210.40 µS/cm	8.05 mg/L	0.58 NTU	29.9 mV	66.81 ft	0.10 PSU	160.00 ml/min
3/10/2021 4:05 PM	32:00	7.26 pH	17.53 °C	212.65 µS/cm	8.20 mg/L	1.13 NTU	29.8 mV	66.81 ft	0.10 PSU	160.00 ml/min
3/10/2021 4:09 PM	36:00	7.28 pH	17.40 °C	214.46 µS/cm	8.21 mg/L	1.06 NTU	29.7 mV	66.81 ft	0.10 PSU	160.00 ml/min
3/10/2021 4:13 PM	40:00	7.30 pH	17.36 °C	215.93 µS/cm	8.34 mg/L	1.36 NTU	29.6 mV	66.81 ft	0.10 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWA-40	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 9:50:10 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-41 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.5 ft Total Depth: 102.5 ft Initial Depth to Water: 76.4 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 97.5 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 9:50 AM	00:00	6.12 pH	16.81 °C	83.75 µS/cm	6.73 mg/L	2.77 NTU	78.7 mV	76.46 ft	0.04 PSU	150.00 ml/min
3/11/2021 9:54 AM	04:00	6.29 pH	16.78 °C	110.90 µS/cm	6.55 mg/L	2.36 NTU	52.1 mV	76.46 ft	0.05 PSU	150.00 ml/min
3/11/2021 9:58 AM	08:00	6.41 pH	16.79 °C	131.37 µS/cm	6.44 mg/L	2.55 NTU	45.5 mV	76.46 ft	0.06 PSU	150.00 ml/min
3/11/2021 10:02 AM	12:00	6.49 pH	16.83 °C	150.46 µS/cm	6.36 mg/L	2.51 NTU	41.1 mV	76.46 ft	0.07 PSU	150.00 ml/min
3/11/2021 10:06 AM	16:00	6.55 pH	17.01 °C	163.56 µS/cm	6.31 mg/L	2.76 NTU	38.2 mV	76.46 ft	0.08 PSU	150.00 ml/min
3/11/2021 10:10 AM	20:00	6.58 pH	17.14 °C	171.86 µS/cm	6.29 mg/L	2.11 NTU	37.0 mV	76.46 ft	0.08 PSU	150.00 ml/min
3/11/2021 10:14 AM	24:00	6.61 pH	17.28 °C	179.63 µS/cm	6.26 mg/L	2.03 NTU	35.0 mV	76.46 ft	0.09 PSU	150.00 ml/min
3/11/2021 10:18 AM	28:00	6.65 pH	17.42 °C	189.67 µS/cm	6.20 mg/L	2.06 NTU	34.2 mV	76.46 ft	0.09 PSU	150.00 ml/min
3/11/2021 10:22 AM	32:00	6.68 pH	17.54 °C	197.35 µS/cm	6.20 mg/L	1.88 NTU	33.2 mV	76.46 ft	0.09 PSU	150.00 ml/min
3/11/2021 10:26 AM	36:00	6.70 pH	17.69 °C	202.98 µS/cm	6.17 mg/L	1.71 NTU	32.2 mV	76.46 ft	0.10 PSU	150.00 ml/min
3/11/2021 10:30 AM	40:00	6.72 pH	17.80 °C	208.53 µS/cm	6.12 mg/L	1.67 NTU	31.5 mV	76.46 ft	0.10 PSU	150.00 ml/min
3/11/2021 10:34 AM	44:00	6.75 pH	17.93 °C	215.87 µS/cm	6.10 mg/L	1.62 NTU	30.9 mV	76.46 ft	0.10 PSU	150.00 ml/min
3/11/2021 10:38 AM	48:00	6.76 pH	17.90 °C	220.04 µS/cm	6.08 mg/L	1.73 NTU	29.8 mV	76.46 ft	0.10 PSU	150.00 ml/min
3/11/2021 10:42 AM	52:00	6.78 pH	17.94 °C	222.78 µS/cm	6.08 mg/L	1.39 NTU	29.7 mV	76.46 ft	0.11 PSU	150.00 ml/min
3/11/2021 10:46 AM	56:00	6.79 pH	18.00 °C	225.59 µS/cm	6.04 mg/L	1.43 NTU	29.4 mV	76.46 ft	0.11 PSU	150.00 ml/min

3/11/2021 10:50 AM	01:00:00	6.80 pH	18.03 °C	230.43 µS/cm	6.02 mg/L	1.34 NTU	28.4 mV	76.46 ft	0.11 PSU	150.00 ml/min
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Samples

Sample ID:	Description:
GWA-41	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/10/2021 2:01:39 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-41R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 121.05 ft Total Depth: 131.05 ft Initial Depth to Water: 76.78 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 126.05 ft Estimated Total Volume Pumped: 14800 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

White sediment in water

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2021 2:01 PM	00:00	7.00 pH	18.86 °C	289.30 µS/cm	2.26 mg/L	2.35 NTU	-43.8 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:05 PM	04:00	7.10 pH	18.70 °C	292.69 µS/cm	0.78 mg/L	4.51 NTU	-69.5 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:09 PM	08:00	7.13 pH	18.79 °C	293.29 µS/cm	0.44 mg/L	6.04 NTU	-71.7 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:13 PM	12:00	7.14 pH	18.62 °C	293.68 µS/cm	0.34 mg/L	6.50 NTU	-68.1 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:17 PM	16:00	7.15 pH	18.60 °C	292.99 µS/cm	0.30 mg/L	4.35 NTU	-62.3 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:21 PM	20:00	7.15 pH	18.64 °C	292.68 µS/cm	0.27 mg/L	5.15 NTU	-58.4 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:25 PM	24:00	7.16 pH	18.61 °C	293.15 µS/cm	0.26 mg/L	6.02 NTU	-54.4 mV	76.95 ft	0.14 PSU	140.00 ml/min
3/10/2021 2:29 PM	28:00	7.17 pH	18.47 °C	296.21 µS/cm	0.26 mg/L	4.91 NTU	-48.1 mV	76.95 ft	0.14 PSU	160.00 ml/min
3/10/2021 2:33 PM	32:00	7.19 pH	18.43 °C	302.55 µS/cm	0.25 mg/L	4.43 NTU	-43.8 mV	76.96 ft	0.15 PSU	160.00 ml/min
3/10/2021 2:37 PM	36:00	7.22 pH	18.35 °C	318.72 µS/cm	0.33 mg/L	4.31 NTU	-38.3 mV	76.96 ft	0.15 PSU	160.00 ml/min
3/10/2021 2:41 PM	40:00	7.25 pH	18.34 °C	336.91 µS/cm	0.43 mg/L	2.79 NTU	-33.6 mV	76.96 ft	0.16 PSU	160.00 ml/min
3/10/2021 2:45 PM	44:00	7.28 pH	18.35 °C	349.98 µS/cm	0.35 mg/L	1.96 NTU	-29.7 mV	76.97 ft	0.17 PSU	160.00 ml/min
3/10/2021 2:49 PM	48:00	7.31 pH	18.24 °C	357.51 µS/cm	0.76 mg/L	2.68 NTU	-25.4 mV	76.97 ft	0.17 PSU	160.00 ml/min
3/10/2021 2:53 PM	52:00	7.32 pH	18.11 °C	359.34 µS/cm	1.23 mg/L	4.40 NTU	-21.9 mV	76.97 ft	0.17 PSU	160.00 ml/min
3/10/2021 2:57 PM	56:00	7.32 pH	18.15 °C	357.48 µS/cm	1.60 mg/L	4.27 NTU	-19.5 mV	76.98 ft	0.17 PSU	160.00 ml/min

3/10/2021 3:01 PM	01:00:00	7.32 pH	18.01 °C	356.44 µS/cm	1.90 mg/L	4.58 NTU	-17.2 mV	76.98 ft	0.17 PSU	160.00 ml/min
3/10/2021 3:05 PM	01:04:00	7.32 pH	18.12 °C	357.38 µS/cm	2.09 mg/L	4.72 NTU	-15.3 mV	76.98 ft	0.17 PSU	160.00 ml/min
3/10/2021 3:09 PM	01:08:00	7.31 pH	18.13 °C	356.21 µS/cm	2.31 mg/L	4.72 NTU	-13.9 mV	76.98 ft	0.17 PSU	160.00 ml/min
3/10/2021 3:13 PM	01:12:00	7.31 pH	18.16 °C	355.34 µS/cm	2.50 mg/L	5.05 NTU	-12.9 mV	76.98 ft	0.17 PSU	160.00 ml/min
3/10/2021 3:17 PM	01:16:00	7.31 pH	17.98 °C	353.92 µS/cm	2.60 mg/L	5.45 NTU	-11.8 mV	77.00 ft	0.17 PSU	200.00 ml/min
3/10/2021 3:21 PM	01:20:00	7.30 pH	17.94 °C	353.03 µS/cm	2.72 mg/L	5.46 NTU	-12.4 mV	77.00 ft	0.17 PSU	200.00 ml/min
3/10/2021 3:25 PM	01:24:00	7.30 pH	17.90 °C	353.25 µS/cm	2.80 mg/L	4.84 NTU	-13.8 mV	77.00 ft	0.17 PSU	200.00 ml/min
3/10/2021 3:29 PM	01:28:00	7.30 pH	17.91 °C	352.77 µS/cm	2.86 mg/L	4.89 NTU	-13.3 mV	77.00 ft	0.17 PSU	200.00 ml/min
3/10/2021 3:33 PM	01:32:00	7.30 pH	17.81 °C	352.01 µS/cm	2.93 mg/L	4.87 NTU	-12.4 mV	77.00 ft	0.17 PSU	200.00 ml/min

Samples

Sample ID:	Description:
GWA-41R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 11:35:06 AM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-42 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.36 ft Total Depth: 84.36 ft Initial Depth to Water: 74.14 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 79.36 ft Estimated Total Volume Pumped: 2080 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 11:35 AM	00:00	7.45 pH	18.73 °C	281.83 µS/cm	4.49 mg/L	1.54 NTU	38.3 mV	74.18 ft	0.14 PSU	130.00 ml/min
3/11/2021 11:39 AM	04:00	7.48 pH	19.00 °C	281.65 µS/cm	4.35 mg/L	1.59 NTU	22.9 mV	74.18 ft	0.14 PSU	130.00 ml/min
3/11/2021 11:43 AM	08:00	7.50 pH	18.75 °C	282.24 µS/cm	4.25 mg/L	1.33 NTU	19.2 mV	74.18 ft	0.14 PSU	130.00 ml/min
3/11/2021 11:47 AM	12:00	7.52 pH	18.96 °C	281.84 µS/cm	4.16 mg/L	1.09 NTU	17.3 mV	74.18 ft	0.14 PSU	130.00 ml/min
3/11/2021 11:51 AM	16:00	7.53 pH	18.92 °C	280.95 µS/cm	4.13 mg/L	0.97 NTU	15.7 mV	74.18 ft	0.13 PSU	130.00 ml/min

Samples

Sample ID:	Description:
GWA-42	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 9:59:30 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWA-43 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 82.53 ft Total Depth: 92.53 ft Initial Depth to Water: 50.29 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 87.53 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 9:59 AM	00:00	5.74 pH	16.63 °C	36.15 µS/cm	7.22 mg/L	11.10 NTU	111.8 mV	50.29 ft	0.02 PSU	120.00 ml/min
3/11/2021 10:03 AM	04:00	5.63 pH	16.74 °C	29.65 µS/cm	7.52 mg/L	9.89 NTU	113.8 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:07 AM	08:00	5.55 pH	17.03 °C	25.67 µS/cm	7.61 mg/L	8.67 NTU	115.7 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:11 AM	12:00	5.55 pH	17.30 °C	24.40 µS/cm	7.57 mg/L	7.54 NTU	113.3 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:15 AM	16:00	5.55 pH	17.57 °C	23.52 µS/cm	7.52 mg/L	5.59 NTU	111.9 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:19 AM	20:00	5.55 pH	17.87 °C	23.33 µS/cm	7.49 mg/L	4.20 NTU	109.2 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:23 AM	24:00	5.55 pH	18.06 °C	23.00 µS/cm	7.49 mg/L	3.41 NTU	109.1 mV	50.41 ft	0.01 PSU	120.00 ml/min
3/11/2021 10:27 AM	28:00	5.55 pH	18.24 °C	22.72 µS/cm	7.43 mg/L	4.26 NTU	107.8 mV	50.41 ft	0.01 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWA-43	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 10:57:48 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWA-43R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 104.58 ft Total Depth: 114.58 ft Initial Depth to Water: 50.76 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 109.58 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 10:57 AM	00:00	7.60 pH	17.83 °C	273.69 µS/cm	6.09 mg/L	6.30 NTU	60.5 mV	50.76 ft	0.13 PSU	150.00 ml/min
3/11/2021 11:01 AM	04:00	7.73 pH	17.35 °C	271.11 µS/cm	6.57 mg/L	6.40 NTU	52.0 mV	50.82 ft	0.13 PSU	150.00 ml/min
3/11/2021 11:05 AM	08:00	7.77 pH	17.22 °C	271.33 µS/cm	6.69 mg/L	5.54 NTU	49.8 mV	50.82 ft	0.13 PSU	150.00 ml/min
3/11/2021 11:09 AM	12:00	7.80 pH	17.18 °C	270.58 µS/cm	6.72 mg/L	2.28 NTU	48.5 mV	50.82 ft	0.13 PSU	150.00 ml/min
3/11/2021 11:13 AM	16:00	7.81 pH	17.17 °C	268.97 µS/cm	6.73 mg/L	2.95 NTU	47.6 mV	50.82 ft	0.13 PSU	150.00 ml/min
3/11/2021 11:17 AM	20:00	7.81 pH	17.04 °C	267.77 µS/cm	6.78 mg/L	3.45 NTU	46.8 mV	50.82 ft	0.13 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWA-43R	Metals, Inorganic, TDS
DUP-1	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 12:06:34 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-44 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 81.1 ft Total Depth: 91.1 ft Initial Depth to Water: 50.54 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 86.1 ft Estimated Total Volume Pumped: 10080 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 12:06 PM	00:00	4.29 pH	20.42 °C	111.43 µS/cm	3.69 mg/L	7.79 NTU	152.3 mV	50.54 ft	0.05 PSU	140.00 ml/min
3/11/2021 12:10 PM	04:00	4.22 pH	19.39 °C	124.43 µS/cm	3.29 mg/L	6.33 NTU	130.7 mV	50.72 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:14 PM	08:00	4.21 pH	18.86 °C	125.57 µS/cm	3.26 mg/L	5.73 NTU	123.2 mV	50.74 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:18 PM	12:00	4.21 pH	18.46 °C	126.08 µS/cm	3.27 mg/L	2.99 NTU	118.0 mV	50.76 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:22 PM	16:00	4.20 pH	18.37 °C	125.70 µS/cm	3.26 mg/L	1.96 NTU	112.5 mV	50.79 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:26 PM	20:00	4.21 pH	18.33 °C	125.88 µS/cm	3.27 mg/L	1.52 NTU	111.9 mV	50.82 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:30 PM	24:00	4.21 pH	18.50 °C	125.94 µS/cm	3.26 mg/L	1.26 NTU	110.2 mV	50.85 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:34 PM	28:00	4.21 pH	18.68 °C	125.79 µS/cm	3.26 mg/L	0.93 NTU	108.9 mV	50.88 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:38 PM	32:00	4.21 pH	19.04 °C	125.72 µS/cm	3.26 mg/L	1.03 NTU	107.0 mV	50.89 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:42 PM	36:00	4.21 pH	19.22 °C	125.66 µS/cm	3.24 mg/L	1.22 NTU	108.2 mV	50.91 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:46 PM	40:00	4.21 pH	19.15 °C	125.55 µS/cm	3.27 mg/L	0.84 NTU	107.5 mV	50.91 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:50 PM	44:00	4.22 pH	19.31 °C	125.60 µS/cm	3.25 mg/L	0.97 NTU	105.5 mV	50.94 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:54 PM	48:00	4.21 pH	18.78 °C	125.16 µS/cm	3.27 mg/L	0.91 NTU	104.0 mV	50.97 ft	0.06 PSU	140.00 ml/min
3/11/2021 12:58 PM	52:00	4.21 pH	18.50 °C	124.93 µS/cm	3.27 mg/L	4.35 NTU	104.0 mV	50.98 ft	0.06 PSU	140.00 ml/min
3/11/2021 1:02 PM	56:00	4.21 pH	18.38 °C	125.43 µS/cm	3.29 mg/L	4.11 NTU	103.8 mV	51.00 ft	0.06 PSU	140.00 ml/min

3/11/2021 1:06 PM	01:00:00	4.21 pH	18.51 °C	125.57 µS/cm	3.28 mg/L	3.22 NTU	103.4 mV	51.02 ft	0.06 PSU	140.00 ml/min
3/11/2021 1:10 PM	01:04:00	4.21 pH	18.46 °C	125.41 µS/cm	3.27 mg/L	2.44 NTU	101.5 mV	51.03 ft	0.06 PSU	140.00 ml/min
3/11/2021 1:14 PM	01:08:00	4.22 pH	18.58 °C	125.57 µS/cm	3.28 mg/L	1.76 NTU	102.8 mV	51.05 ft	0.06 PSU	140.00 ml/min
3/11/2021 1:18 PM	01:12:00	4.21 pH	18.80 °C	125.39 µS/cm	3.27 mg/L	0.90 NTU	102.6 mV	51.06 ft	0.06 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWC-44	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:58:40 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-45 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.55 ft Total Depth: 67.55 ft Initial Depth to Water: 39.07 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 52.55 ft Estimated Total Volume Pumped: 9440 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 4.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 1:58 PM	00:00	4.76 pH	18.15 °C	23.92 µS/cm	5.98 mg/L	3.35 NTU	142.9 mV	39.07 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:02 PM	04:00	4.75 pH	17.97 °C	23.45 µS/cm	5.91 mg/L	2.65 NTU	107.7 mV	41.32 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:06 PM	08:00	4.74 pH	17.88 °C	23.09 µS/cm	5.81 mg/L	2.83 NTU	98.2 mV	41.93 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:10 PM	12:00	4.74 pH	17.93 °C	23.10 µS/cm	5.70 mg/L	2.21 NTU	95.9 mV	42.63 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:14 PM	16:00	4.74 pH	18.32 °C	23.26 µS/cm	5.72 mg/L	1.46 NTU	94.7 mV	43.12 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:18 PM	20:00	4.71 pH	18.53 °C	23.21 µS/cm	5.72 mg/L	1.78 NTU	95.7 mV	43.77 ft	0.01 PSU	155.00 ml/min
3/11/2021 2:22 PM	24:00	4.69 pH	19.40 °C	23.64 µS/cm	5.91 mg/L	2.33 NTU	96.6 mV	43.49 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:26 PM	28:00	4.70 pH	19.65 °C	23.34 µS/cm	5.72 mg/L	2.04 NTU	97.2 mV	43.39 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:30 PM	32:00	4.69 pH	19.72 °C	23.30 µS/cm	5.74 mg/L	1.97 NTU	95.9 mV	43.35 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:34 PM	36:00	4.66 pH	19.36 °C	23.35 µS/cm	5.97 mg/L	1.82 NTU	95.9 mV	43.34 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:38 PM	40:00	4.66 pH	19.17 °C	23.59 µS/cm	6.00 mg/L	1.77 NTU	94.5 mV	43.33 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:42 PM	44:00	4.68 pH	19.77 °C	23.77 µS/cm	5.98 mg/L	1.61 NTU	96.0 mV	43.33 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:46 PM	48:00	4.69 pH	19.53 °C	23.72 µS/cm	5.94 mg/L	1.73 NTU	95.5 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:50 PM	52:00	4.67 pH	19.44 °C	23.61 µS/cm	5.95 mg/L	1.36 NTU	93.7 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 2:54 PM	56:00	4.65 pH	18.95 °C	23.71 µS/cm	6.11 mg/L	1.26 NTU	94.2 mV	43.31 ft	0.01 PSU	110.00 ml/min

3/11/2021 2:58 PM	01:00:00	4.67 pH	18.89 °C	23.95 µS/cm	6.10 mg/L	0.94 NTU	93.7 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 3:02 PM	01:04:00	4.69 pH	18.99 °C	24.07 µS/cm	6.06 mg/L	1.09 NTU	92.3 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 3:06 PM	01:08:00	4.69 pH	18.91 °C	23.89 µS/cm	6.07 mg/L	1.03 NTU	93.4 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 3:10 PM	01:12:00	4.68 pH	18.79 °C	23.75 µS/cm	6.10 mg/L	2.33 NTU	93.8 mV	43.31 ft	0.01 PSU	110.00 ml/min
3/11/2021 3:14 PM	01:16:00	4.68 pH	18.91 °C	23.61 µS/cm	6.08 mg/L	1.55 NTU	92.2 mV	43.31 ft	0.01 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWC-45	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 3:42:19 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-45R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 120.12 ft Total Depth: 130.12 ft Initial Depth to Water: 50.34 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 125.12 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 3:42 PM	00:00	7.04 pH	19.27 °C	332.78 µS/cm	3.21 mg/L	1.19 NTU	14.3 mV	50.34 ft	0.16 PSU	125.00 ml/min
3/11/2021 3:46 PM	04:00	7.04 pH	18.78 °C	345.95 µS/cm	2.13 mg/L	1.13 NTU	8.4 mV	50.43 ft	0.17 PSU	125.00 ml/min
3/11/2021 3:50 PM	08:00	7.17 pH	18.60 °C	353.98 µS/cm	3.71 mg/L	1.82 NTU	21.2 mV	50.44 ft	0.17 PSU	125.00 ml/min
3/11/2021 3:54 PM	12:00	7.20 pH	18.55 °C	354.72 µS/cm	3.98 mg/L	1.51 NTU	29.9 mV	50.44 ft	0.17 PSU	125.00 ml/min
3/11/2021 3:58 PM	16:00	7.20 pH	18.51 °C	355.86 µS/cm	4.00 mg/L	1.41 NTU	34.5 mV	50.44 ft	0.17 PSU	125.00 ml/min
3/11/2021 4:02 PM	20:00	7.21 pH	18.46 °C	358.55 µS/cm	4.08 mg/L	1.32 NTU	37.5 mV	50.44 ft	0.17 PSU	125.00 ml/min
3/11/2021 4:06 PM	24:00	7.21 pH	18.28 °C	358.44 µS/cm	4.19 mg/L	1.26 NTU	39.5 mV	50.44 ft	0.17 PSU	125.00 ml/min
3/11/2021 4:10 PM	28:00	7.21 pH	18.20 °C	358.52 µS/cm	4.27 mg/L	1.09 NTU	41.0 mV	50.44 ft	0.17 PSU	125.00 ml/min

Samples

Sample ID:	Description:
GWC-45R	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:08:44 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-46R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.01 ft Total Depth: 59.01 ft Initial Depth to Water: 37.91 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.01 ft Estimated Total Volume Pumped: 1760 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 1:08 PM	00:00	7.54 pH	18.75 °C	429.99 µS/cm	6.56 mg/L	0.63 NTU	24.6 mV	39.02 ft	0.21 PSU	110.00 ml/min
3/11/2021 1:12 PM	04:00	7.53 pH	18.66 °C	431.46 µS/cm	6.55 mg/L	0.70 NTU	16.3 mV	39.05 ft	0.21 PSU	110.00 ml/min
3/11/2021 1:16 PM	08:00	7.53 pH	19.06 °C	429.16 µS/cm	6.47 mg/L	0.67 NTU	15.1 mV	39.08 ft	0.21 PSU	110.00 ml/min
3/11/2021 1:20 PM	12:00	7.53 pH	19.32 °C	428.21 µS/cm	6.41 mg/L	0.66 NTU	14.4 mV	39.09 ft	0.21 PSU	110.00 ml/min
3/11/2021 1:24 PM	16:00	7.53 pH	18.88 °C	427.31 µS/cm	6.38 mg/L	0.60 NTU	14.3 mV	39.10 ft	0.21 PSU	110.00 ml/min

Samples

Sample ID:	Description:
GWC-46R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 5/26/2021 11:52:05 AM
Project: Bowen May 2021 LF Resample Bowen
Operator Name: William Laaker

Location Name: GWC-46R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.01 ft Total Depth: 59.01 ft Initial Depth to Water: 37.66 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.01 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/26/2021 11:52 AM	00:00	7.45 pH	21.15 °C	405.27 µS/cm	7.17 mg/L	0.76 NTU	52.1 mV	38.60 ft	0.20 PSU	120.00 ml/min
5/26/2021 11:56 AM	04:00	7.42 pH	20.66 °C	414.70 µS/cm	7.11 mg/L	0.95 NTU	49.0 mV	38.74 ft	0.20 PSU	120.00 ml/min
5/26/2021 12:00 PM	08:00	7.40 pH	20.49 °C	416.69 µS/cm	7.11 mg/L	1.42 NTU	48.4 mV	38.89 ft	0.20 PSU	120.00 ml/min
5/26/2021 12:04 PM	12:00	7.39 pH	20.53 °C	416.94 µS/cm	7.01 mg/L	0.92 NTU	48.3 mV	38.97 ft	0.20 PSU	120.00 ml/min
5/26/2021 12:08 PM	16:00	7.39 pH	20.48 °C	415.87 µS/cm	7.02 mg/L	0.73 NTU	47.8 mV	39.03 ft	0.20 PSU	120.00 ml/min
5/26/2021 12:12 PM	20:00	7.39 pH	20.53 °C	415.27 µS/cm	6.94 mg/L	0.71 NTU	47.6 mV	39.06 ft	0.20 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-46R	Chromium

Low-Flow Test Report:

Test Date / Time: 3/11/2021 3:58:39 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-47 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.63 ft Total Depth: 67.63 ft Initial Depth to Water: 39.2 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 62.63 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 3:58 PM	00:00	7.36 pH	20.49 °C	213.12 µS/cm	3.79 mg/L	3.97 NTU	42.5 mV	39.21 ft	0.10 PSU	160.00 ml/min
3/11/2021 4:02 PM	04:00	7.35 pH	19.45 °C	213.84 µS/cm	3.46 mg/L	5.73 NTU	38.9 mV	39.21 ft	0.10 PSU	160.00 ml/min
3/11/2021 4:06 PM	08:00	7.35 pH	19.14 °C	213.51 µS/cm	3.40 mg/L	4.85 NTU	38.7 mV	39.21 ft	0.10 PSU	160.00 ml/min
3/11/2021 4:10 PM	12:00	7.35 pH	18.94 °C	214.11 µS/cm	3.40 mg/L	3.57 NTU	38.6 mV	39.21 ft	0.10 PSU	160.00 ml/min
3/11/2021 4:14 PM	16:00	7.34 pH	18.96 °C	214.20 µS/cm	3.43 mg/L	2.51 NTU	38.7 mV	39.21 ft	0.10 PSU	160.00 ml/min
3/11/2021 4:18 PM	20:00	7.34 pH	18.92 °C	213.52 µS/cm	3.44 mg/L	2.02 NTU	39.1 mV	39.21 ft	0.10 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWC-47	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 2:52:15 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWC-47R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.55 ft Total Depth: 84.55 ft Initial Depth to Water: 39.25 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 79.55 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.78 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 2:52 PM	00:00	7.23 pH	20.50 °C	321.65 µS/cm	3.40 mg/L	0.58 NTU	47.3 mV	41.32 ft	0.15 PSU	120.00 ml/min
3/11/2021 2:56 PM	04:00	7.38 pH	19.83 °C	323.30 µS/cm	3.64 mg/L	0.30 NTU	41.0 mV	41.54 ft	0.16 PSU	120.00 ml/min
3/11/2021 3:00 PM	08:00	7.42 pH	19.94 °C	318.05 µS/cm	3.59 mg/L	0.36 NTU	40.4 mV	41.82 ft	0.15 PSU	120.00 ml/min
3/11/2021 3:04 PM	12:00	7.43 pH	19.92 °C	309.17 µS/cm	3.38 mg/L	0.33 NTU	41.1 mV	42.08 ft	0.15 PSU	120.00 ml/min
3/11/2021 3:08 PM	16:00	7.43 pH	19.85 °C	301.64 µS/cm	3.28 mg/L	0.32 NTU	41.8 mV	42.22 ft	0.14 PSU	120.00 ml/min
3/11/2021 3:12 PM	20:00	7.45 pH	19.72 °C	296.27 µS/cm	3.21 mg/L	0.28 NTU	41.9 mV	42.50 ft	0.14 PSU	120.00 ml/min
3/11/2021 3:16 PM	24:00	7.46 pH	19.96 °C	293.46 µS/cm	3.20 mg/L	0.30 NTU	41.7 mV	42.67 ft	0.14 PSU	120.00 ml/min
3/11/2021 3:20 PM	28:00	7.47 pH	19.97 °C	292.13 µS/cm	3.22 mg/L	0.26 NTU	41.7 mV	42.82 ft	0.14 PSU	120.00 ml/min
3/11/2021 3:24 PM	32:00	7.48 pH	20.00 °C	292.45 µS/cm	3.26 mg/L	0.17 NTU	41.8 mV	42.92 ft	0.14 PSU	120.00 ml/min
3/11/2021 3:28 PM	36:00	7.48 pH	20.03 °C	291.88 µS/cm	3.32 mg/L	0.16 NTU	41.7 mV	43.03 ft	0.14 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWC-47R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 3/11/2021 2:07:02 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWC-48 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.49 ft Total Depth: 59.49 ft Initial Depth to Water: 36.08 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.49 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepured 1 L

Pumped an additional hour after stabilization to bring pH into range, with no effect.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2021 2:07 PM	00:00	5.28 pH	18.39 °C	63.00 µS/cm	3.52 mg/L	1.15 NTU	79.8 mV	36.23 ft	0.03 PSU	160.00 ml/min
3/11/2021 2:11 PM	04:00	5.12 pH	18.16 °C	52.91 µS/cm	3.50 mg/L	0.78 NTU	59.3 mV	36.24 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:15 PM	08:00	5.07 pH	18.71 °C	51.33 µS/cm	3.28 mg/L	0.74 NTU	56.2 mV	36.25 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:19 PM	12:00	5.04 pH	18.90 °C	49.85 µS/cm	3.21 mg/L	0.76 NTU	54.8 mV	36.26 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:23 PM	16:00	5.04 pH	19.06 °C	48.50 µS/cm	3.20 mg/L	0.61 NTU	54.0 mV	36.27 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:27 PM	20:00	5.04 pH	19.08 °C	47.57 µS/cm	3.22 mg/L	0.57 NTU	52.6 mV	36.27 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:31 PM	24:00	5.05 pH	19.19 °C	47.51 µS/cm	3.26 mg/L	0.54 NTU	52.4 mV	36.27 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:35 PM	28:00	5.06 pH	18.99 °C	47.62 µS/cm	3.32 mg/L	0.58 NTU	51.8 mV	36.28 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:39 PM	32:00	5.08 pH	19.11 °C	47.77 µS/cm	3.38 mg/L	0.59 NTU	50.8 mV	36.28 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:43 PM	36:00	5.08 pH	19.06 °C	48.66 µS/cm	3.47 mg/L	0.58 NTU	51.1 mV	36.28 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:47 PM	40:00	5.10 pH	19.01 °C	49.16 µS/cm	3.54 mg/L	0.59 NTU	50.5 mV	36.28 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:51 PM	44:00	5.10 pH	18.95 °C	49.49 µS/cm	3.61 mg/L	0.61 NTU	50.2 mV	36.29 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:55 PM	48:00	5.08 pH	18.88 °C	49.80 µS/cm	3.68 mg/L	0.57 NTU	50.4 mV	36.30 ft	0.02 PSU	160.00 ml/min
3/11/2021 2:59 PM	52:00	5.07 pH	18.95 °C	50.62 µS/cm	3.73 mg/L	0.62 NTU	50.0 mV	36.30 ft	0.02 PSU	160.00 ml/min
3/11/2021 3:03 PM	56:00	5.06 pH	19.06 °C	51.95 µS/cm	3.77 mg/L	0.59 NTU	49.6 mV	36.30 ft	0.02 PSU	160.00 ml/min

3/11/2021 3:07 PM	01:00:00	5.04 pH	18.88 °C	53.81 µS/cm	3.84 mg/L	0.51 NTU	50.3 mV	36.30 ft	0.02 PSU	160.00 ml/min
3/11/2021 3:11 PM	01:04:00	5.03 pH	18.90 °C	55.59 µS/cm	3.88 mg/L	0.51 NTU	50.3 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:15 PM	01:08:00	5.02 pH	19.01 °C	57.63 µS/cm	3.91 mg/L	0.51 NTU	50.1 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:19 PM	01:12:00	5.01 pH	18.93 °C	59.64 µS/cm	3.96 mg/L	0.55 NTU	51.5 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:23 PM	01:16:00	4.99 pH	18.97 °C	61.52 µS/cm	3.99 mg/L	0.51 NTU	50.4 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:27 PM	01:20:00	4.97 pH	18.99 °C	63.34 µS/cm	4.00 mg/L	0.53 NTU	51.3 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:31 PM	01:24:00	4.98 pH	19.01 °C	65.59 µS/cm	4.04 mg/L	0.52 NTU	51.4 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:35 PM	01:28:00	4.97 pH	18.93 °C	67.24 µS/cm	4.08 mg/L	0.64 NTU	51.0 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:39 PM	01:32:00	4.96 pH	18.95 °C	68.92 µS/cm	4.11 mg/L	0.55 NTU	50.6 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:43 PM	01:36:00	4.96 pH	18.92 °C	70.38 µS/cm	4.11 mg/L	0.54 NTU	50.7 mV	36.30 ft	0.03 PSU	160.00 ml/min
3/11/2021 3:47 PM	01:40:00	4.95 pH	19.00 °C	72.09 µS/cm	4.14 mg/L	0.56 NTU	51.6 mV	36.30 ft	0.03 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWC-48	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 5/26/2021 10:15:33 AM

Project: Bowen May 2021 LF Resample

Operator Name: Joe Booth

Location Name: GWC-48 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.49 ft Total Depth: 59.49 ft Initial Depth to Water: 35.83 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.49 ft Estimated Total Volume Pumped: 16889.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/26/2021 10:15 AM	00:00	4.75 pH	21.48 °C	51.48 µS/cm	4.33 mg/L	0.46 NTU	123.6 mV	35.83 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:19 AM	04:00	4.73 pH	20.31 °C	47.28 µS/cm	3.86 mg/L	0.28 NTU	103.1 mV	36.04 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:23 AM	08:00	4.74 pH	20.37 °C	44.67 µS/cm	3.51 mg/L	0.43 NTU	95.7 mV	36.06 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:27 AM	12:00	4.77 pH	20.40 °C	44.60 µS/cm	3.43 mg/L	0.32 NTU	92.1 mV	36.06 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:31 AM	16:00	4.81 pH	20.42 °C	44.45 µS/cm	3.41 mg/L	0.25 NTU	89.5 mV	36.06 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:35 AM	20:00	4.84 pH	20.39 °C	44.52 µS/cm	3.45 mg/L	0.54 NTU	88.9 mV	36.06 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:39 AM	24:00	4.86 pH	20.61 °C	44.62 µS/cm	3.51 mg/L	0.32 NTU	87.9 mV	36.06 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:43 AM	28:00	4.87 pH	20.64 °C	44.35 µS/cm	3.61 mg/L	0.31 NTU	86.9 mV	36.08 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:47 AM	32:00	4.87 pH	20.73 °C	44.44 µS/cm	3.71 mg/L	0.31 NTU	85.9 mV	36.08 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:51 AM	36:00	4.86 pH	20.73 °C	44.71 µS/cm	3.83 mg/L	0.42 NTU	86.1 mV	36.08 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:55 AM	40:00	4.85 pH	20.73 °C	45.58 µS/cm	3.89 mg/L	0.41 NTU	86.1 mV	36.08 ft	0.02 PSU	170.00 ml/min
5/26/2021 10:59 AM	44:00	4.84 pH	20.90 °C	47.71 µS/cm	3.96 mg/L	0.34 NTU	85.7 mV	36.12 ft	0.02 PSU	170.00 ml/min
5/26/2021 11:03 AM	48:00	4.81 pH	21.18 °C	50.32 µS/cm	4.05 mg/L	0.33 NTU	86.2 mV	36.12 ft	0.02 PSU	170.00 ml/min
5/26/2021 11:07 AM	52:00	4.79 pH	21.00 °C	53.06 µS/cm	4.07 mg/L	0.28 NTU	87.1 mV	36.14 ft	0.02 PSU	170.00 ml/min
5/26/2021 11:11 AM	56:00	4.78 pH	21.11 °C	56.01 µS/cm	4.12 mg/L	0.46 NTU	87.0 mV	36.14 ft	0.03 PSU	170.00 ml/min

5/26/2021 11:15 AM	01:00:00	4.78 pH	20.93 °C	59.20 µS/cm	4.19 mg/L	0.37 NTU	86.5 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:19 AM	01:04:00	4.77 pH	20.91 °C	62.07 µS/cm	4.25 mg/L	0.34 NTU	86.4 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:23 AM	01:08:00	4.76 pH	21.13 °C	64.60 µS/cm	4.27 mg/L	0.29 NTU	86.7 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:27 AM	01:12:00	4.74 pH	21.32 °C	66.96 µS/cm	4.30 mg/L	0.36 NTU	87.3 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:31 AM	01:16:00	4.74 pH	21.45 °C	69.07 µS/cm	4.31 mg/L	0.43 NTU	87.5 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:35 AM	01:20:00	4.75 pH	21.36 °C	71.18 µS/cm	4.31 mg/L	0.37 NTU	86.8 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:39 AM	01:24:00	4.73 pH	21.18 °C	73.40 µS/cm	4.37 mg/L	0.42 NTU	87.2 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:43 AM	01:28:00	4.73 pH	21.38 °C	75.29 µS/cm	4.38 mg/L	0.36 NTU	87.3 mV	36.14 ft	0.03 PSU	170.00 ml/min
5/26/2021 11:47 AM	01:32:00	4.73 pH	21.45 °C	76.84 µS/cm	4.38 mg/L	0.47 NTU	87.4 mV	36.14 ft	0.04 PSU	170.00 ml/min
5/26/2021 11:51 AM	01:36:00	4.72 pH	21.54 °C	78.40 µS/cm	4.40 mg/L	0.38 NTU	87.5 mV	36.14 ft	0.04 PSU	170.00 ml/min
5/26/2021 11:54 AM	01:39:21	4.72 pH	21.49 °C	78.17 µS/cm	4.35 mg/L	0.36 NTU	89.2 mV	36.14 ft	0.04 PSU	170.00 ml/min

Samples

Sample ID:	Description:
GWC-48	Barium, Sulfate

Low-Flow Test Report:

Test Date / Time: 3/15/2021 12:15:43 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-49R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 126.8 ft Total Depth: 136.8 ft Initial Depth to Water: 54.22 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 131.8 ft Estimated Total Volume Pumped: 12880 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 1.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/15/2021 12:15 PM	00:00	7.55 pH	17.75 °C	263.21 µS/cm	3.49 mg/L	1.19 NTU	65.1 mV	54.22 ft	0.13 PSU	140.00 ml/min
3/15/2021 12:19 PM	04:00	8.32 pH	17.79 °C	236.32 µS/cm	1.63 mg/L	1.03 NTU	51.0 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:23 PM	08:00	8.38 pH	17.81 °C	225.44 µS/cm	4.68 mg/L	1.63 NTU	49.7 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:27 PM	12:00	8.21 pH	17.88 °C	227.10 µS/cm	5.73 mg/L	2.42 NTU	48.1 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:31 PM	16:00	8.16 pH	17.95 °C	228.08 µS/cm	6.05 mg/L	1.85 NTU	46.8 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:35 PM	20:00	8.13 pH	17.70 °C	228.71 µS/cm	6.19 mg/L	2.13 NTU	45.7 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:39 PM	24:00	8.11 pH	17.48 °C	229.61 µS/cm	6.29 mg/L	1.88 NTU	45.3 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:43 PM	28:00	8.13 pH	17.35 °C	229.77 µS/cm	6.33 mg/L	2.25 NTU	44.9 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:47 PM	32:00	8.12 pH	17.35 °C	230.00 µS/cm	6.39 mg/L	1.68 NTU	44.1 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:51 PM	36:00	8.07 pH	17.26 °C	230.39 µS/cm	6.51 mg/L	2.01 NTU	43.8 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:55 PM	40:00	8.08 pH	17.21 °C	229.86 µS/cm	6.57 mg/L	1.72 NTU	42.8 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 12:59 PM	44:00	8.08 pH	17.21 °C	228.81 µS/cm	6.72 mg/L	1.42 NTU	42.7 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:03 PM	48:00	8.07 pH	17.26 °C	228.91 µS/cm	6.82 mg/L	2.31 NTU	42.1 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:07 PM	52:00	8.07 pH	17.25 °C	228.66 µS/cm	6.92 mg/L	1.48 NTU	41.8 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:11 PM	56:00	8.05 pH	17.21 °C	228.31 µS/cm	7.06 mg/L	1.65 NTU	41.4 mV	55.24 ft	0.11 PSU	140.00 ml/min

3/15/2021 1:15 PM	01:00:00	8.05 pH	17.13 °C	228.18 µS/cm	7.19 mg/L	1.33 NTU	40.8 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:19 PM	01:04:00	8.05 pH	17.22 °C	227.87 µS/cm	7.27 mg/L	0.89 NTU	40.9 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:23 PM	01:08:00	8.05 pH	17.23 °C	227.99 µS/cm	7.30 mg/L	0.78 NTU	40.7 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:27 PM	01:12:00	8.05 pH	17.17 °C	227.81 µS/cm	7.36 mg/L	1.12 NTU	40.3 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:31 PM	01:16:00	8.04 pH	17.21 °C	227.92 µS/cm	7.41 mg/L	0.98 NTU	40.0 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:35 PM	01:20:00	8.05 pH	17.19 °C	227.85 µS/cm	7.43 mg/L	1.21 NTU	39.7 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:39 PM	01:24:00	8.04 pH	17.26 °C	228.56 µS/cm	7.41 mg/L	1.10 NTU	39.9 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:43 PM	01:28:00	8.05 pH	17.28 °C	228.93 µS/cm	7.35 mg/L	1.13 NTU	39.5 mV	55.24 ft	0.11 PSU	140.00 ml/min
3/15/2021 1:47 PM	01:32:00	8.05 pH	17.45 °C	229.08 µS/cm	7.42 mg/L	0.48 NTU	38.9 mV	55.24 ft	0.11 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWC-49R	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/15/2021 10:09:52 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWC-49Z Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.2 ft Total Depth: 95.2 ft Initial Depth to Water: 54.43 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 90.2 ft Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.46 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/15/2021 10:09 AM	00:00	5.39 pH	16.68 °C	26.49 µS/cm	6.12 mg/L	2.52 NTU	97.4 mV	54.43 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:13 AM	04:00	5.23 pH	16.72 °C	25.66 µS/cm	7.43 mg/L	2.43 NTU	85.1 mV	55.27 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:17 AM	08:00	5.23 pH	16.72 °C	25.86 µS/cm	7.55 mg/L	1.97 NTU	82.4 mV	55.48 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:21 AM	12:00	5.23 pH	16.73 °C	25.16 µS/cm	7.63 mg/L	1.88 NTU	80.9 mV	55.67 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:25 AM	16:00	5.24 pH	16.77 °C	24.86 µS/cm	7.66 mg/L	2.21 NTU	79.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:29 AM	20:00	5.25 pH	16.77 °C	25.07 µS/cm	7.62 mg/L	2.03 NTU	78.2 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:33 AM	24:00	5.26 pH	16.77 °C	24.94 µS/cm	7.58 mg/L	1.76 NTU	76.0 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:37 AM	28:00	5.28 pH	16.77 °C	24.90 µS/cm	7.58 mg/L	1.75 NTU	75.8 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:41 AM	32:00	5.28 pH	16.81 °C	24.80 µS/cm	7.61 mg/L	1.44 NTU	75.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:45 AM	36:00	5.29 pH	16.81 °C	24.70 µS/cm	7.64 mg/L	1.63 NTU	74.3 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:49 AM	40:00	5.29 pH	16.85 °C	24.45 µS/cm	7.65 mg/L	1.38 NTU	74.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:53 AM	44:00	5.29 pH	16.87 °C	24.39 µS/cm	7.68 mg/L	0.83 NTU	74.2 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 10:57 AM	48:00	5.30 pH	16.86 °C	24.27 µS/cm	7.71 mg/L	1.12 NTU	73.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:01 AM	52:00	5.30 pH	17.00 °C	24.20 µS/cm	7.72 mg/L	1.43 NTU	73.6 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:05 AM	56:00	5.30 pH	17.10 °C	24.09 µS/cm	7.73 mg/L	1.21 NTU	72.3 mV	55.89 ft	0.01 PSU	150.00 ml/min

3/15/2021 11:09 AM	01:00:00	5.30 pH	17.01 °C	24.07 µS/cm	7.76 mg/L	1.77 NTU	72.4 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:13 AM	01:04:00	5.31 pH	17.08 °C	24.07 µS/cm	7.77 mg/L	2.17 NTU	72.9 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:17 AM	01:08:00	5.30 pH	17.21 °C	23.97 µS/cm	7.76 mg/L	1.98 NTU	72.5 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:21 AM	01:12:00	5.30 pH	17.35 °C	24.01 µS/cm	7.76 mg/L	1.83 NTU	72.5 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:25 AM	01:16:00	5.30 pH	17.46 °C	23.94 µS/cm	7.76 mg/L	1.43 NTU	72.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:29 AM	01:20:00	5.31 pH	17.48 °C	23.88 µS/cm	7.74 mg/L	1.36 NTU	71.1 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:33 AM	01:24:00	5.31 pH	17.60 °C	23.82 µS/cm	7.73 mg/L	2.15 NTU	70.9 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:37 AM	01:28:00	5.31 pH	17.55 °C	23.88 µS/cm	7.75 mg/L	2.04 NTU	71.4 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:41 AM	01:32:00	5.31 pH	17.53 °C	23.88 µS/cm	7.79 mg/L	3.22 NTU	71.0 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:45 AM	01:36:00	5.31 pH	17.42 °C	23.98 µS/cm	7.85 mg/L	2.64 NTU	71.3 mV	55.89 ft	0.01 PSU	150.00 ml/min
3/15/2021 11:49 AM	01:40:00	5.31 pH	17.35 °C	23.99 µS/cm	7.84 mg/L	1.88 NTU	70.6 mV	55.89 ft	0.01 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWC-49Z	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 10:08:43 AM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWA-50 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 86.73 ft Total Depth: 96.73 ft Initial Depth to Water: 63.13 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 91.73 ft Estimated Total Volume Pumped: 17360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 12.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 10:08 AM	00:00	6.40 pH	14.92 °C	35.88 µS/cm	7.83 mg/L	0.44 NTU	80.9 mV	63.13 ft	0.02 PSU	140.00 ml/min
3/17/2021 10:12 AM	04:00	5.94 pH	15.12 °C	32.39 µS/cm	6.76 mg/L	0.88 NTU	82.7 mV	65.07 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:16 AM	08:00	5.83 pH	15.15 °C	30.73 µS/cm	6.54 mg/L	0.83 NTU	86.1 mV	65.68 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:20 AM	12:00	5.75 pH	15.19 °C	28.45 µS/cm	6.72 mg/L	0.72 NTU	88.5 mV	66.18 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:24 AM	16:00	5.67 pH	15.19 °C	26.05 µS/cm	6.98 mg/L	0.64 NTU	90.8 mV	66.83 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:28 AM	20:00	5.61 pH	15.20 °C	24.97 µS/cm	7.13 mg/L	0.73 NTU	92.4 mV	67.24 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:32 AM	24:00	5.58 pH	15.19 °C	24.63 µS/cm	7.21 mg/L	0.57 NTU	93.9 mV	67.81 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:36 AM	28:00	5.55 pH	15.22 °C	24.53 µS/cm	7.21 mg/L	0.68 NTU	94.3 mV	68.23 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:40 AM	32:00	5.54 pH	15.22 °C	24.50 µS/cm	7.18 mg/L	0.36 NTU	94.1 mV	68.85 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:44 AM	36:00	5.54 pH	15.20 °C	24.64 µS/cm	7.17 mg/L	0.55 NTU	94.2 mV	69.31 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:48 AM	40:00	5.54 pH	15.21 °C	24.72 µS/cm	7.13 mg/L	0.44 NTU	94.1 mV	69.79 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:52 AM	44:00	5.55 pH	15.23 °C	24.90 µS/cm	7.09 mg/L	0.78 NTU	93.4 mV	70.22 ft	0.01 PSU	140.00 ml/min
3/17/2021 10:56 AM	48:00	5.56 pH	15.24 °C	25.06 µS/cm	7.06 mg/L	0.64 NTU	93.5 mV	70.55 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:00 AM	52:00	5.56 pH	15.24 °C	25.24 µS/cm	7.03 mg/L	0.63 NTU	92.9 mV	70.91 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:04 AM	56:00	5.56 pH	15.28 °C	25.39 µS/cm	7.01 mg/L	0.58 NTU	92.8 mV	71.22 ft	0.01 PSU	140.00 ml/min

3/17/2021 11:08 AM	01:00:00	5.57 pH	15.24 °C	25.51 µS/cm	6.98 mg/L	0.53 NTU	93.3 mV	71.64 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:12 AM	01:04:00	5.57 pH	15.21 °C	25.68 µS/cm	6.98 mg/L	0.69 NTU	93.2 mV	71.92 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:16 AM	01:08:00	5.58 pH	15.18 °C	25.75 µS/cm	6.97 mg/L	0.38 NTU	93.0 mV	72.23 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:20 AM	01:12:00	5.58 pH	15.20 °C	25.81 µS/cm	6.98 mg/L	0.52 NTU	92.6 mV	72.58 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:24 AM	01:16:00	5.58 pH	15.21 °C	26.02 µS/cm	6.96 mg/L	0.44 NTU	91.9 mV	72.89 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:28 AM	01:20:00	5.59 pH	15.21 °C	26.08 µS/cm	6.95 mg/L	0.67 NTU	91.4 mV	73.17 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:32 AM	01:24:00	5.59 pH	15.19 °C	26.20 µS/cm	6.92 mg/L	0.52 NTU	92.0 mV	73.38 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:36 AM	01:28:00	5.60 pH	15.21 °C	26.25 µS/cm	6.93 mg/L	0.66 NTU	92.0 mV	73.61 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:40 AM	01:32:00	5.60 pH	15.23 °C	26.46 µS/cm	6.93 mg/L	0.74 NTU	91.9 mV	73.87 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:44 AM	01:36:00	5.61 pH	15.23 °C	26.64 µS/cm	6.91 mg/L	0.82 NTU	91.2 mV	74.08 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:48 AM	01:40:00	5.61 pH	15.22 °C	26.78 µS/cm	6.87 mg/L	0.75 NTU	90.7 mV	74.30 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:52 AM	01:44:00	5.62 pH	15.20 °C	26.93 µS/cm	6.85 mg/L	0.65 NTU	90.6 mV	74.53 ft	0.01 PSU	140.00 ml/min
3/17/2021 11:56 AM	01:48:00	5.63 pH	15.24 °C	27.00 µS/cm	6.86 mg/L	0.53 NTU	90.0 mV	74.69 ft	0.01 PSU	140.00 ml/min
3/17/2021 12:00 PM	01:52:00	5.63 pH	15.27 °C	27.12 µS/cm	6.83 mg/L	0.62 NTU	90.1 mV	74.90 ft	0.01 PSU	140.00 ml/min
3/17/2021 12:04 PM	01:56:00	5.63 pH	15.27 °C	27.18 µS/cm	6.81 mg/L	0.71 NTU	90.1 mV	75.08 ft	0.01 PSU	140.00 ml/min
3/17/2021 12:08 PM	02:00:00	5.64 pH	15.27 °C	27.25 µS/cm	6.79 mg/L	0.57 NTU	89.8 mV	75.23 ft	0.01 PSU	140.00 ml/min
3/17/2021 12:12 PM	02:04:00	5.64 pH	15.25 °C	27.40 µS/cm	6.75 mg/L	0.49 NTU	89.1 mV	75.36 ft	0.01 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWA-50	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 3/17/2021 12:49:09 PM

Project: Plant Bowen LF February 2021

Operator Name: Joe Booth

Location Name: GWA-50R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 135.53 ft Total Depth: 145.53 ft Initial Depth to Water: 74.12 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 138.53 ft Estimated Total Volume Pumped: 16800 ml Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/17/2021 12:49 PM	00:00	5.82 pH	15.16 °C	24.47 µS/cm	8.82 mg/L	0.91 NTU	107.1 mV	74.12 ft	0.01 PSU	175.00 ml/min
3/17/2021 12:53 PM	04:00	5.38 pH	15.51 °C	22.35 µS/cm	9.31 mg/L	0.96 NTU	106.6 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 12:57 PM	08:00	5.21 pH	15.55 °C	20.57 µS/cm	10.20 mg/L	0.89 NTU	109.5 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:01 PM	12:00	5.18 pH	15.55 °C	20.20 µS/cm	10.47 mg/L	0.88 NTU	110.3 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:05 PM	16:00	5.18 pH	15.56 °C	20.35 µS/cm	10.58 mg/L	0.85 NTU	111.2 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:09 PM	20:00	5.19 pH	15.57 °C	20.53 µS/cm	10.64 mg/L	0.82 NTU	111.3 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:13 PM	24:00	5.23 pH	15.56 °C	20.83 µS/cm	10.66 mg/L	0.75 NTU	110.7 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:17 PM	28:00	5.30 pH	15.56 °C	21.73 µS/cm	10.68 mg/L	0.68 NTU	109.9 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:21 PM	32:00	5.43 pH	15.57 °C	24.07 µS/cm	10.69 mg/L	0.77 NTU	106.8 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:25 PM	36:00	5.62 pH	15.56 °C	29.65 µS/cm	10.67 mg/L	0.65 NTU	102.9 mV	74.24 ft	0.01 PSU	175.00 ml/min
3/17/2021 1:29 PM	40:00	5.80 pH	15.56 °C	37.63 µS/cm	10.65 mg/L	0.63 NTU	98.3 mV	74.24 ft	0.02 PSU	175.00 ml/min
3/17/2021 1:33 PM	44:00	5.93 pH	15.56 °C	45.09 µS/cm	10.63 mg/L	0.61 NTU	94.8 mV	74.24 ft	0.02 PSU	175.00 ml/min
3/17/2021 1:37 PM	48:00	6.04 pH	15.56 °C	52.36 µS/cm	10.65 mg/L	0.55 NTU	91.4 mV	74.24 ft	0.02 PSU	175.00 ml/min
3/17/2021 1:41 PM	52:00	6.08 pH	15.58 °C	55.15 µS/cm	10.64 mg/L	0.67 NTU	89.7 mV	74.24 ft	0.02 PSU	175.00 ml/min
3/17/2021 1:45 PM	56:00	6.09 pH	15.60 °C	58.02 µS/cm	10.65 mg/L	0.66 NTU	89.3 mV	74.24 ft	0.03 PSU	175.00 ml/min

3/17/2021 1:49 PM	01:00:00	6.13 pH	15.60 °C	60.62 µS/cm	10.65 mg/L	0.53 NTU	88.1 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 1:53 PM	01:04:00	6.16 pH	15.60 °C	62.31 µS/cm	10.65 mg/L	0.77 NTU	87.4 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 1:57 PM	01:08:00	6.18 pH	15.60 °C	64.59 µS/cm	10.68 mg/L	0.82 NTU	86.8 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:01 PM	01:12:00	6.20 pH	15.61 °C	65.49 µS/cm	10.68 mg/L	1.34 NTU	86.3 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:05 PM	01:16:00	6.21 pH	15.64 °C	66.88 µS/cm	10.69 mg/L	1.98 NTU	85.2 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:09 PM	01:20:00	6.24 pH	15.64 °C	69.63 µS/cm	10.69 mg/L	2.44 NTU	84.5 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:13 PM	01:24:00	6.26 pH	15.64 °C	71.19 µS/cm	10.69 mg/L	2.91 NTU	83.3 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:17 PM	01:28:00	6.27 pH	15.64 °C	71.44 µS/cm	10.71 mg/L	2.70 NTU	83.1 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:21 PM	01:32:00	6.29 pH	15.64 °C	72.92 µS/cm	10.69 mg/L	3.70 NTU	83.0 mV	74.24 ft	0.03 PSU	175.00 ml/min
3/17/2021 2:25 PM	01:36:00	6.31 pH	15.63 °C	74.11 µS/cm	10.72 mg/L	2.92 NTU	81.9 mV	74.24 ft	0.03 PSU	175.00 ml/min

Samples

Sample ID:	Description:
GWA-50R	Metals, Inorganic, TDS

Low-Flow Test Report:

Test Date / Time: 2/24/2021 12:28:51 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-51RZ Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.7 ft Total Depth: 95.7 ft Initial Depth to Water: 55.33 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 90.7 ft Estimated Total Volume Pumped: 20160 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 30.58 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 6 liters. Water level did not stabilize and dropped into the screen. Complete evacuation method initiated. Samples to be collected 2/25.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/24/2021 12:28 PM	00:00	7.49 pH	18.33 °C	367.92 µS/cm	3.51 mg/L	0.57 NTU	8.2 mV	64.27 ft	0.18 PSU	160.00 ml/min
2/24/2021 12:32 PM	04:00	7.50 pH	18.38 °C	361.68 µS/cm	3.48 mg/L	0.37 NTU	8.0 mV	64.88 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:36 PM	08:00	7.50 pH	18.35 °C	355.95 µS/cm	3.48 mg/L	0.39 NTU	8.5 mV	65.64 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:40 PM	12:00	7.50 pH	18.29 °C	356.28 µS/cm	3.53 mg/L	0.34 NTU	9.0 mV	66.76 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:44 PM	16:00	7.51 pH	18.29 °C	356.41 µS/cm	3.54 mg/L	0.39 NTU	9.1 mV	67.55 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:48 PM	20:00	7.51 pH	18.29 °C	354.55 µS/cm	3.52 mg/L	0.37 NTU	9.8 mV	68.71 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:52 PM	24:00	7.51 pH	18.33 °C	353.48 µS/cm	3.53 mg/L	0.08 NTU	9.9 mV	69.32 ft	0.17 PSU	160.00 ml/min
2/24/2021 12:56 PM	28:00	7.52 pH	18.29 °C	353.37 µS/cm	3.55 mg/L	0.29 NTU	10.1 mV	69.93 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:00 PM	32:00	7.52 pH	18.24 °C	351.57 µS/cm	3.62 mg/L	0.08 NTU	10.0 mV	70.80 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:04 PM	36:00	7.53 pH	18.25 °C	353.43 µS/cm	3.82 mg/L	0.07 NTU	10.0 mV	70.80 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:08 PM	40:00	7.53 pH	18.22 °C	359.70 µS/cm	3.85 mg/L	0.08 NTU	10.3 mV	72.46 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:12 PM	44:00	7.54 pH	18.21 °C	358.54 µS/cm	3.86 mg/L	0.01 NTU	10.3 mV	73.58 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:16 PM	48:00	7.54 pH	18.25 °C	356.57 µS/cm	3.87 mg/L	0.14 NTU	10.3 mV	74.18 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:20 PM	52:00	7.55 pH	18.23 °C	362.10 µS/cm	3.90 mg/L	0.10 NTU	10.5 mV	74.80 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:24 PM	56:00	7.55 pH	18.23 °C	362.54 µS/cm	3.91 mg/L	0.21 NTU	10.8 mV	75.79 ft	0.17 PSU	160.00 ml/min

2/24/2021 1:28 PM	01:00:00	7.55 pH	18.16 °C	362.73 µS/cm	3.93 mg/L	0.12 NTU	10.8 mV	76.83 ft	0.18 PSU	160.00 ml/min
2/24/2021 1:32 PM	01:04:00	7.56 pH	18.22 °C	362.86 µS/cm	3.95 mg/L	0.10 NTU	10.9 mV	77.19 ft	0.18 PSU	160.00 ml/min
2/24/2021 1:36 PM	01:08:00	7.56 pH	18.18 °C	360.31 µS/cm	3.98 mg/L	0.11 NTU	11.2 mV	78.38 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:40 PM	01:12:00	7.56 pH	18.07 °C	363.39 µS/cm	4.06 mg/L	0.14 NTU	11.4 mV	79.23 ft	0.18 PSU	160.00 ml/min
2/24/2021 1:44 PM	01:16:00	7.57 pH	18.06 °C	363.13 µS/cm	4.08 mg/L	0.58 NTU	11.4 mV	79.93 ft	0.18 PSU	160.00 ml/min
2/24/2021 1:48 PM	01:20:00	7.55 pH	18.02 °C	362.81 µS/cm	4.12 mg/L	0.26 NTU	12.6 mV	80.90 ft	0.18 PSU	160.00 ml/min
2/24/2021 1:52 PM	01:24:00	7.56 pH	18.02 °C	362.40 µS/cm	4.17 mg/L	0.27 NTU	12.2 mV	81.12 ft	0.17 PSU	160.00 ml/min
2/24/2021 1:56 PM	01:28:00	7.57 pH	17.98 °C	361.86 µS/cm	4.19 mg/L	0.42 NTU	12.1 mV	82.19 ft	0.17 PSU	160.00 ml/min
2/24/2021 2:00 PM	01:32:00	7.57 pH	18.02 °C	361.49 µS/cm	4.21 mg/L	0.14 NTU	12.2 mV	83.02 ft	0.17 PSU	160.00 ml/min
2/24/2021 2:04 PM	01:36:00	7.57 pH	17.98 °C	362.01 µS/cm	4.22 mg/L	0.26 NTU	12.1 mV	84.11 ft	0.17 PSU	160.00 ml/min
2/24/2021 2:08 PM	01:40:00	7.57 pH	17.94 °C	360.45 µS/cm	4.21 mg/L	0.17 NTU	11.9 mV	84.45 ft	0.17 PSU	160.00 ml/min
2/24/2021 2:12 PM	01:44:00	7.57 pH	18.03 °C	359.89 µS/cm	4.18 mg/L	0.67 NTU	10.3 mV	84.59 ft	0.17 PSU	160.00 ml/min
2/24/2021 2:16 PM	01:48:00	7.57 pH	18.16 °C	360.27 µS/cm	4.13 mg/L	0.43 NTU	10.0 mV	84.75 ft	0.17 PSU	120.00 ml/min
2/24/2021 2:20 PM	01:52:00	7.58 pH	18.24 °C	361.20 µS/cm	4.09 mg/L	0.66 NTU	10.1 mV	84.93 ft	0.17 PSU	120.00 ml/min
2/24/2021 2:24 PM	01:56:00	7.58 pH	18.24 °C	361.79 µS/cm	4.12 mg/L	0.63 NTU	10.5 mV	85.08 ft	0.17 PSU	120.00 ml/min
2/24/2021 2:28 PM	02:00:00	7.58 pH	18.35 °C	360.53 µS/cm	4.11 mg/L	0.59 NTU	10.5 mV	85.29 ft	0.17 PSU	120.00 ml/min
2/24/2021 2:32 PM	02:04:00	7.59 pH	18.33 °C	364.06 µS/cm	4.07 mg/L	0.80 NTU	10.6 mV	85.49 ft	0.18 PSU	120.00 ml/min
2/24/2021 2:36 PM	02:08:00	7.60 pH	18.33 °C	366.25 µS/cm	3.97 mg/L	0.74 NTU	10.3 mV	85.70 ft	0.18 PSU	120.00 ml/min
2/24/2021 2:40 PM	02:12:00	7.61 pH	18.29 °C	367.78 µS/cm	3.87 mg/L	0.71 NTU	10.2 mV	85.91 ft	0.18 PSU	120.00 ml/min

Samples

Sample ID:	Description:
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Location Properties

Location Name = Device Location

GWA-51RZ

Report Properties

Start Time = 2021-02-25 11:40:16

Time Offset = -05:00:00

Duration = 00:00:50

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789317

Instrument Properties

Device Model = PowerPack

Device SN = 784036

Date Time	RDO		Oxygen	Actual	Specific			Total	Resistivity		Pressure		pH mV		Barometri		Marked	
	Concentr ation (mg/L)	RDO Saturatio n (%Sat)	Partial Pressure (Torr)	Conductiv ity ($\text{\AA}\mu\text{S/cm}$)	Temperat ure ($\text{\AA}^\circ\text{C}$)	Conductiv ity ($\text{\AA}\mu\text{S/cm}$)	Salinity (PSU)	Dissolved Solids (ppt)	($\text{\AA}^\circ\text{C}$)	Density ($\text{g/cm}\text{\AA}^3$)	(psi)	Depth (ft)	pH (pH)	(mV)	ORP (mV)	Pressure (mbar)		Temperat ure ($\text{\AA}^\circ\text{C}$)
	(789977)	(789977)	(789977)	(789317)	(789317)	(789317)	(789317)	(789317)	(789317)	(789317)	(787062)	(787062)	(21172)	(21172)	(21172)	(784036)	(784036)	
2/25/2021 11:40	3.093015	33.92698	54.63226	361.411	19.06876	407.5851	0.197333	0.26493	2766.935	0.998545	-0.09067	0.427329	7.442481	-48.0971	142.7888	998.6028	26.68819	
2/25/2021 11:40	3.09119	33.89964	54.58934	361.3558	19.0556	407.6382	0.197358	0.264965	2767.357	0.998548	-0.09011	0.428633	7.441634	-48.0483	142.4936	998.6079	26.68957	
2/25/2021 11:40	3.089072	33.84499	54.50494	362.2844	19.00738	409.1111	0.198087	0.265922	2760.264	0.998558	-0.11446	0.372467	7.443973	-48.1707	140.2666	998.6091	26.68091	
2/25/2021 11:40	3.085943	33.74532	54.34903	361.8375	18.96476	408.9822	0.19802	0.265838	2763.673	0.998566	-0.1052	0.393826	7.434642	-47.6447	138.7986	998.5576	26.69769	
2/25/2021 11:40	3.085591	33.73289	54.32967	361.8224	18.95839	409.0213	0.198038	0.265864	2763.787	0.998568	-0.10502	0.394248	7.433683	-47.5904	138.5553	998.5516	26.69928	
2/25/2021 11:40	3.086884	33.73022	54.32622	361.4544	18.87516	409.341	0.198191	0.266072	2766.601	0.998584	-0.10739	0.388782	7.440605	-47.9624	136.1955	998.5318	26.70902	
2/25/2021 11:40	3.08028	33.63007	54.16793	361.4048	18.83047	409.6809	0.198356	0.266293	2766.981	0.998593	-0.10631	0.391272	7.431732	-47.4652	134.7817	998.5303	26.70971	
2/25/2021 11:40	3.079609	33.61914	54.15069	361.3867	18.82248	409.7311	0.198381	0.266325	2767.119	0.998594	-0.1063	0.391274	7.431038	-47.4257	134.5391	998.5295	26.71012	
2/25/2021 11:40	3.082759	33.5991	54.12535	361.2457	18.78363	409.9162	0.19847	0.266446	2768.199	0.998602	-0.10052	0.404626	7.437822	-47.7942	132.3253	998.5481	26.72848	
2/25/2021 11:41	3.082721	33.581	54.0982	361.3862	18.72235	410.6211	0.198815	0.266904	2767.123	0.998614	-0.13785	0.3185	7.431936	-47.4598	130.9049	998.5492	26.72957	
2/25/2021 11:41	3.082854	33.57845	54.09457	361.3963	18.71409	410.706	0.198857	0.266959	2767.046	0.998616	-0.14179	0.309428	7.431568	-47.4382	130.6633	998.55	26.7304	

Low-Flow Test Report:

Test Date / Time: 2/24/2021 3:34:07 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73.96 ft Total Depth: 83.96 ft Initial Depth to Water: 56.42 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 78.96 ft Estimated Total Volume Pumped: 5120 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/24/2021 3:34 PM	00:00	7.30 pH	18.28 °C	284.81 µS/cm	6.87 mg/L	0.48 NTU	27.9 mV	56.43 ft	0.14 PSU	160.00 ml/min
2/24/2021 3:38 PM	04:00	7.33 pH	18.07 °C	287.14 µS/cm	6.85 mg/L	0.31 NTU	24.8 mV	56.43 ft	0.14 PSU	160.00 ml/min
2/24/2021 3:42 PM	08:00	7.38 pH	17.98 °C	290.21 µS/cm	6.82 mg/L	0.32 NTU	24.4 mV	56.43 ft	0.14 PSU	160.00 ml/min
2/24/2021 3:46 PM	12:00	7.41 pH	17.98 °C	294.26 µS/cm	6.74 mg/L	0.61 NTU	23.9 mV	56.43 ft	0.14 PSU	160.00 ml/min
2/24/2021 3:50 PM	16:00	7.45 pH	17.98 °C	307.21 µS/cm	6.59 mg/L	0.78 NTU	23.2 mV	56.43 ft	0.15 PSU	160.00 ml/min
2/24/2021 3:54 PM	20:00	7.48 pH	17.94 °C	316.37 µS/cm	6.51 mg/L	0.61 NTU	22.7 mV	56.43 ft	0.15 PSU	160.00 ml/min
2/24/2021 3:58 PM	24:00	7.50 pH	17.93 °C	321.02 µS/cm	6.45 mg/L	0.65 NTU	22.7 mV	56.43 ft	0.15 PSU	160.00 ml/min
2/24/2021 4:02 PM	28:00	7.52 pH	17.91 °C	322.82 µS/cm	6.43 mg/L	0.56 NTU	22.2 mV	56.43 ft	0.16 PSU	160.00 ml/min
2/24/2021 4:06 PM	32:00	7.53 pH	17.86 °C	324.78 µS/cm	6.41 mg/L	0.52 NTU	22.3 mV	56.43 ft	0.16 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWA-52	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/26/2021 11:58:57 AM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 110.92 ft Total Depth: 120.92 ft Initial Depth to Water: 57.58 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 115.92 ft Estimated Total Volume Pumped: 5760 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 4 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/26/2021 11:58 AM	00:00	7.77 pH	13.80 °C	279.29 µS/cm	8.14 mg/L	11.10 NTU	82.3 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:02 PM	04:00	7.70 pH	15.19 °C	273.23 µS/cm	7.33 mg/L	9.50 NTU	58.9 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:06 PM	08:00	7.69 pH	15.34 °C	271.69 µS/cm	7.24 mg/L	7.02 NTU	51.0 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:10 PM	12:00	7.70 pH	15.45 °C	271.52 µS/cm	7.19 mg/L	6.92 NTU	45.1 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:14 PM	16:00	7.69 pH	15.47 °C	270.51 µS/cm	7.15 mg/L	6.12 NTU	41.9 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:18 PM	20:00	7.69 pH	15.47 °C	270.87 µS/cm	7.17 mg/L	5.77 NTU	40.6 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:22 PM	24:00	7.69 pH	15.47 °C	270.67 µS/cm	7.14 mg/L	3.53 NTU	38.5 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:26 PM	28:00	7.69 pH	15.52 °C	271.91 µS/cm	7.16 mg/L	3.97 NTU	37.2 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:30 PM	32:00	7.69 pH	15.65 °C	270.88 µS/cm	7.12 mg/L	3.69 NTU	36.4 mV	57.60 ft	0.13 PSU	160.00 ml/min
2/26/2021 12:34 PM	36:00	7.70 pH	15.71 °C	271.24 µS/cm	7.10 mg/L	3.39 NTU	35.8 mV	57.60 ft	0.13 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWA-53	Metals, Inorganics, TDS
DUP-2	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/26/2021 10:42:14 AM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-53R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 158.48 ft Total Depth: 168.48 ft Initial Depth to Water: 58.32 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 163.48 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/26/2021 10:42 AM	00:00	7.72 pH	14.84 °C	284.06 µS/cm	7.11 mg/L	2.56 NTU	119.3 mV	58.32 ft	0.14 PSU	140.00 ml/min
2/26/2021 10:46 AM	04:00	7.70 pH	15.38 °C	279.76 µS/cm	6.91 mg/L	1.34 NTU	81.6 mV	58.32 ft	0.13 PSU	140.00 ml/min
2/26/2021 10:50 AM	08:00	7.70 pH	15.43 °C	279.07 µS/cm	6.89 mg/L	1.35 NTU	70.8 mV	58.32 ft	0.13 PSU	140.00 ml/min
2/26/2021 10:54 AM	12:00	7.71 pH	15.56 °C	279.10 µS/cm	6.89 mg/L	1.01 NTU	63.5 mV	58.32 ft	0.13 PSU	140.00 ml/min
2/26/2021 10:58 AM	16:00	7.71 pH	15.56 °C	278.86 µS/cm	6.87 mg/L	0.82 NTU	60.8 mV	58.32 ft	0.13 PSU	140.00 ml/min
2/26/2021 11:02 AM	20:00	7.71 pH	15.48 °C	277.85 µS/cm	6.87 mg/L	0.58 NTU	57.6 mV	58.32 ft	0.13 PSU	140.00 ml/min
2/26/2021 11:06 AM	24:00	7.72 pH	15.50 °C	277.68 µS/cm	6.85 mg/L	0.71 NTU	52.8 mV	58.32 ft	0.13 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWA-53R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/25/2021 1:00:15 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-54 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.11 ft Total Depth: 76.11 ft Initial Depth to Water: 50.7 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 71.11 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 4 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/25/2021 1:00 PM	00:00	7.45 pH	19.03 °C	230.81 µS/cm	3.72 mg/L	0.52 NTU	60.9 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:04 PM	04:00	7.47 pH	18.90 °C	232.96 µS/cm	3.74 mg/L	0.47 NTU	49.6 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:08 PM	08:00	7.49 pH	18.74 °C	233.05 µS/cm	3.78 mg/L	0.49 NTU	45.3 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:12 PM	12:00	7.50 pH	18.70 °C	233.90 µS/cm	3.83 mg/L	0.25 NTU	42.2 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:16 PM	16:00	7.53 pH	18.65 °C	235.46 µS/cm	3.86 mg/L	0.33 NTU	39.8 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:20 PM	20:00	7.53 pH	18.67 °C	234.82 µS/cm	3.92 mg/L	0.34 NTU	37.2 mV	50.70 ft	0.11 PSU	140.00 ml/min
2/25/2021 1:24 PM	24:00	7.55 pH	18.54 °C	235.96 µS/cm	3.93 mg/L	0.47 NTU	34.8 mV	50.70 ft	0.11 PSU	140.00 ml/min

Samples

Sample ID:	Description:
GWA-54	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/25/2021 2:30:25 PM

Project: Plant Bowen LF February 2021

Operator Name: Kevin Stephenson

Location Name: GWA-55 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.24 ft Total Depth: 65.24 ft Initial Depth to Water: 43.23 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 60.24 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/25/2021 2:30 PM	00:00	7.10 pH	19.51 °C	448.04 µS/cm	3.33 mg/L	0.82 NTU	49.6 mV	43.23 ft	0.22 PSU	160.00 ml/min
2/25/2021 2:34 PM	04:00	7.07 pH	18.87 °C	446.67 µS/cm	3.36 mg/L	0.90 NTU	43.2 mV	43.23 ft	0.22 PSU	160.00 ml/min
2/25/2021 2:38 PM	08:00	7.08 pH	18.87 °C	446.77 µS/cm	3.33 mg/L	0.67 NTU	42.3 mV	43.23 ft	0.22 PSU	160.00 ml/min
2/25/2021 2:42 PM	12:00	7.07 pH	18.77 °C	443.79 µS/cm	3.38 mg/L	0.37 NTU	41.5 mV	43.23 ft	0.22 PSU	160.00 ml/min
2/25/2021 2:46 PM	16:00	7.06 pH	18.91 °C	440.41 µS/cm	3.41 mg/L	0.61 NTU	41.6 mV	43.23 ft	0.21 PSU	160.00 ml/min
2/25/2021 2:50 PM	20:00	7.05 pH	18.73 °C	439.16 µS/cm	3.49 mg/L	0.44 NTU	41.3 mV	43.23 ft	0.21 PSU	160.00 ml/min

Samples

Sample ID:	Description:
GWA-55	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/25/2021 3:58:45 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

Location Name: GWA-55R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 95.70 ft Total Depth: 105.70 ft Initial Depth to Water: 43.01 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 100.70 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/25/2021 3:58 PM	00:00	7.19 pH	18.33 °C	364.54 µS/cm	2.15 mg/L	2.29 NTU	-67.0 mV	43.01 ft	0.18 PSU	150.00 ml/min
2/25/2021 4:02 PM	04:00	7.26 pH	18.01 °C	397.52 µS/cm	4.21 mg/L	1.71 NTU	-29.2 mV	43.01 ft	0.19 PSU	150.00 ml/min
2/25/2021 4:06 PM	08:00	7.28 pH	17.98 °C	401.49 µS/cm	4.54 mg/L	2.09 NTU	-5.6 mV	43.01 ft	0.19 PSU	150.00 ml/min
2/25/2021 4:10 PM	12:00	7.27 pH	17.88 °C	402.86 µS/cm	4.66 mg/L	2.03 NTU	5.2 mV	43.01 ft	0.19 PSU	150.00 ml/min
2/25/2021 4:14 PM	16:00	7.27 pH	17.88 °C	405.16 µS/cm	4.72 mg/L	2.02 NTU	9.1 mV	43.01 ft	0.20 PSU	150.00 ml/min
2/25/2021 4:18 PM	20:00	7.27 pH	18.06 °C	402.92 µS/cm	4.72 mg/L	1.73 NTU	10.7 mV	43.01 ft	0.19 PSU	150.00 ml/min

Samples

Sample ID:	Description:
GWA-55R	Metals, Inorganics, TDS

Low-Flow Test Report:

Test Date / Time: 2/25/2021 2:15:45 PM

Project: Plant Bowen LF February 2021

Operator Name: William Laaker

<p>Location Name: GWA-56 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 75.87 ft Total Depth: 85.87 ft Initial Depth to Water: 38.7 ft</p>	<p>Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 80.87 ft Estimated Total Volume Pumped: 7680 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.46 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 728648</p>
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/25/2021 2:15 PM	00:00	7.97 pH	19.21 °C	588.79 µS/cm	1.06 mg/L	1.18 NTU	84.6 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:19 PM	04:00	7.98 pH	19.03 °C	594.18 µS/cm	0.95 mg/L	1.14 NTU	41.8 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:23 PM	08:00	7.99 pH	18.91 °C	592.95 µS/cm	0.88 mg/L	1.10 NTU	27.3 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:27 PM	12:00	7.99 pH	19.04 °C	592.16 µS/cm	0.88 mg/L	1.27 NTU	20.1 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:31 PM	16:00	7.98 pH	18.95 °C	588.22 µS/cm	0.91 mg/L	1.30 NTU	9.2 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:35 PM	20:00	7.98 pH	18.90 °C	583.65 µS/cm	0.99 mg/L	1.13 NTU	-0.2 mV	39.15 ft	0.29 PSU	120.00 ml/min
2/25/2021 2:39 PM	24:00	7.97 pH	18.91 °C	579.19 µS/cm	1.04 mg/L	1.27 NTU	-5.5 mV	39.15 ft	0.28 PSU	120.00 ml/min
2/25/2021 2:43 PM	28:00	7.96 pH	18.86 °C	576.30 µS/cm	1.13 mg/L	1.24 NTU	-9.5 mV	39.15 ft	0.28 PSU	120.00 ml/min
2/25/2021 2:47 PM	32:00	7.94 pH	18.79 °C	575.29 µS/cm	1.33 mg/L	1.49 NTU	-11.3 mV	39.16 ft	0.28 PSU	120.00 ml/min
2/25/2021 2:51 PM	36:00	7.93 pH	18.77 °C	572.38 µS/cm	1.56 mg/L	1.45 NTU	-13.0 mV	39.16 ft	0.28 PSU	120.00 ml/min
2/25/2021 2:55 PM	40:00	7.91 pH	18.70 °C	565.05 µS/cm	1.80 mg/L	1.50 NTU	-13.8 mV	39.16 ft	0.28 PSU	120.00 ml/min
2/25/2021 2:59 PM	44:00	7.89 pH	18.86 °C	560.59 µS/cm	1.96 mg/L	1.43 NTU	-13.7 mV	39.16 ft	0.27 PSU	120.00 ml/min
2/25/2021 3:03 PM	48:00	7.88 pH	18.83 °C	559.57 µS/cm	2.14 mg/L	1.20 NTU	-13.7 mV	39.16 ft	0.27 PSU	120.00 ml/min
2/25/2021 3:07 PM	52:00	7.87 pH	18.95 °C	554.45 µS/cm	2.25 mg/L	1.10 NTU	-14.1 mV	39.16 ft	0.27 PSU	120.00 ml/min
2/25/2021 3:11 PM	56:00	7.86 pH	18.74 °C	549.28 µS/cm	2.34 mg/L	1.20 NTU	-14.3 mV	39.16 ft	0.27 PSU	120.00 ml/min

2/25/2021 3:15 PM	01:00:00	7.85 pH	18.77 °C	549.24 µS/cm	2.43 mg/L	1.13 NTU	-13.5 mV	39.16 ft	0.27 PSU	120.00 ml/min
2/25/2021 3:19 PM	01:04:00	7.85 pH	18.72 °C	545.46 µS/cm	2.53 mg/L	1.09 NTU	-12.9 mV	39.16 ft	0.27 PSU	120.00 ml/min

Samples

Sample ID:	Description:
GWA-56	Metals, Inorganics, TDS

CALIBRATION

EQUIPMENT CALIBRATION LOG

Equipment Name: <u>Handheld Multi-Parameter Analyzer</u>	Date: <u>2/24/21</u>	Operator: <u>CRW</u>	Location:
Instrument ID: <u>78937</u>	Manufacturer: <u>Labette 7200</u>	Serial Number: <u>9429-4417</u>	Calibration Range: <u>7.30/14.00, 0%</u>

Calibration Log

Parameter	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <small>(20% DO% each increment on lot)</small>			100%	101.9	
Specific Conductance (µmhos)	814 12/30/16	8.6°	4490	432.6	
pH (4)	814 12/30/16	8.8°	4	4.02	
pH (7)	814 12/30/16	8.70	7	7.09	
pH (10)	814 12/30/16	8.5	10	10.20	
ORP (mV)	814 12/30/16	9.08	225	28.0	

Parameter	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass	Comments
Turbidity (NTU)		0	0.00	0-1 NTU	<input checked="" type="checkbox"/>	
Turbidity (1 NTU)		1	0.73	0-1 NTU	<input checked="" type="checkbox"/>	
Turbidity (10 NTU)		10	9.96	0-10 NTU	<input checked="" type="checkbox"/>	

Parameter	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass	Comments
Mid-Day pH (4) check	7.52	4	4.12	0-10	<input checked="" type="checkbox"/>	
Mid-Day pH (7) check	7.96	7	7.10	0-10	<input checked="" type="checkbox"/>	
Mid-Day pH (10) check	7.25	10	10.08	0-10	<input checked="" type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Field Technician: William Locker	Date: 2/24/21	Time: 9:22	Time (hr):
Account ID: 728648	Vehicle Make/Year: LaMotte 2020E	Job: 2608-0320	
Project: Feb 2021 LF	Weather Location: 73°/30° sunny		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (Pa) (Sp, 100% water saturated air sat)				101.44	
Specific Conductance (µmhos)	29810025 8/21	8.26	4498	4593.8	4593.4
pH (N)	29810025 8/21	8.00	4	4.08	
pH (F)	19340057 8/21	7.39	7	7.04	
pH (M)	19320102 8/21	7.10	10	10.12	
ORP (mV)	19460067 8/21	6.86	228	247.4	

	Temp of Standard	Value of Standard	Instrument Reading	Acceptable Range	Pass	Fail	Comments
Turbidity 0 NTU		0	0.24	0-0.5 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity 1 NTU		1	1.13	0-1.5 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity 10 NTU		10	10.29	8-12 NTU	<input checked="" type="radio"/>	<input type="radio"/>	

	Temp of Standard (°C)	Value of Standard	Pre Calibration Reading	Instrument Reading	Acceptable Range	Pass	Fail	Comments
Mid Day pH (N) check		22.74	4	4.10	0-10.0	<input checked="" type="radio"/>	<input type="radio"/>	
Mid Day pH (F) check		21.17	7	7.13	0-10.0	<input checked="" type="radio"/>	<input type="radio"/>	
Mid Day pH (M) check		18.93	10	10.16	0-10.0	<input checked="" type="radio"/>	<input type="radio"/>	

Field Technician: <u>Karin Stigerson</u>	Date: <u>2/15/21</u>	Instrument: <u>10085</u>	Flow Rate:
Sample ID: <u>38937</u>	Location: <u>San Luis Obispo 2020</u>	Phone: <u>949-4447</u>	
Client: <u>LF Sampling</u>	Water Quality: <u>CRPLUS, 20%</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (%A, 20% water saturated air sat)				<u>96.05</u>	
Specific Conductance (µmhos)	20010025 8/21	<u>7.52</u>	4490	<u>4484.7</u>	
pH (25)	20010025 8/21	<u>7.40</u>	4	<u>4.00</u>	
pH (7)	19340057 8/21	<u>7.00</u>	7	<u>7.04</u>	
pH (10)	19330102 8/21	<u>7.7</u>	10	<u>10.00</u>	
ORP (mV)	19460167 8/21	<u>7.40</u>	230	<u>214.4</u>	

	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Accuracy @ 25°C		0	<u>0.02</u>	-0.0001	<input checked="" type="checkbox"/>	Yes
Accuracy @ 7°C		1	<u>0.87</u>	-0.0001	<input checked="" type="checkbox"/>	Yes
Accuracy @ 10°C		10	<u>9.71</u>	-0.0001	<input checked="" type="checkbox"/>	Yes

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Range pH (6) check	<u>7.16</u>	4	<u>4.10</u>	-0.0001	<input checked="" type="checkbox"/>	Yes
Mid-Range pH (7) check	<u>7.09</u>	7	<u>7.10</u>	-0.0001	<input checked="" type="checkbox"/>	Yes
Mid-Range pH (10) check	<u>7.18</u>	10	<u>10.09</u>	-0.0001	<input checked="" type="checkbox"/>	Yes

EQUIPMENT CALIBRATION LOG

Technician: William Leiber	Date: 2/25/21	Time: 8:27	Location: 8-50
Equipment: 728648	Manufacturer: LaMotte 20302	ID: 2068-0720	
Project: Feb 2021 LF Sampling	Water Temp: 71°/47° 10004		

Calibration Log

	Standard Lot # / Date of Calibration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <small>(Sp, 100% water saturated air sat)</small>				98.26%	
Specific Conductance (µmhos)	20010025 8/21	7.59	4498	4602.3	
pH (4)	20010025 8/21	7.95	4	4.01	
pH (5)	19340057 8/21	8.27	7	7.06	
pH (6)	19320102 8/21	8.60	10	10.18	
ORP (mV)	19460167 8/21	8.64	228	227.5	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	0	0.23	≤ 0.5 NTU	Yes	No
Turbidity (NTU)	1	1.19	≤ 0.5 NTU	Yes	No
Turbidity (NTU)	10	10.22	≤ 0.5 NTU	Yes	No

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
500-µg pH (4) check	24.58	4	4.03	≤ 0.100	Yes	No
500-µg pH (5) check	23.17	7	7.06	≤ 0.100	Yes	No
500-µg pH (6) check	22.94	10	9.96	≤ 0.100	Yes	No

Technician: <u>Kevin Stephenson</u>	Date: <u>2/26/23</u>	Order #: <u>0950</u>	Site: <u></u>
Sample ID: <u>789317</u>	Location: <u>LAKE OAKS 2010</u>	Phone: <u>989-4407</u>	
Client: <u>LF Sampling & Bore</u>	Purpose: <u>Wt</u>		

Calibration Log

	Standard Lot # (Date of Expiration)	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
NO ₃ -N (Eq. 100% water saturated air cell)				<u>10.49</u>	
Specific Conductance (µmhos)	<u>28010025 8/21</u>	<u>10.01</u>	<u>470</u>	<u>407.4</u>	
pH (25)	<u>28010025 8/21</u>	<u>10.00</u>	<u>4</u>	<u>4.00</u>	
pH (25)	<u>19340057 8/21</u>	<u>10.43</u>	<u>7</u>	<u>7.03</u>	
pH (25)	<u>19320182 8/21</u>	<u>10.53</u>	<u>10</u>	<u>10.15</u>	
ORP (mV)	<u>19400187 8/21</u>	<u>10.14</u>	<u>118</u>	<u>236.0</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass	Comments
Turbidity (NTU)	<u>0</u>	<u>0.01</u>	<u>0-1 NTU</u>	<input checked="" type="checkbox"/>	
Turbidity (NTU)	<u>1</u>	<u>1.05</u>	<u>0-1 NTU</u>	<input checked="" type="checkbox"/>	
Turbidity (NTU)	<u>10</u>	<u>9.61</u>	<u>0-10 NTU</u>	<input checked="" type="checkbox"/>	

	Temp of Standard (°C)	Value of Standard	Per Centimeter Reading	Acceptable Range	Pass	Comments
Mid Day pH (25) check	<u>10.09</u>	<u>4</u>	<u>4.07</u>	<u>0-1.0</u>	<input checked="" type="checkbox"/>	
Mid Day pH (7) check	<u>10.44</u>	<u>7</u>	<u>7.12</u>	<u>0-1.0</u>	<input checked="" type="checkbox"/>	
Mid Day pH (10) check	<u>10.12</u>	<u>10</u>	<u>10.22</u>	<u>0-1.0</u>	<input checked="" type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Locker</u>	Date: <u>2/26/21</u>	Time: <u>8:41</u>	Project: _____
Asset/ID: <u>728648</u>	Manufacturer/Model: <u>LaMotte 20201</u>	Serial: <u>2048 0920</u>	
Project: <u>Feb 2021 LF Sampling</u>	Weather/Location: <u>58°/47° rain</u>		

Calibration Log

	Standard Lot #/Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (ppm, 100% water saturated air sat)				101.42%	
Specific Conductance (µmhos)	20010025 8/21	8.64	4498	4473.0	
pH (m)	20010025 8/21	8.65	4	4.01	
pH (n)	19340097 8/21	9.21	7	7.08	
pH (10)	19320102 8/21	9.55	10	10.12	
ORP (mV)	19460107 8/21	9.73	228	226.5	

	Value of Standard	Instrument Reading	Acceptable Range	Pass		Comments
Turbidity (NTU)	0	0.33	0-1.0 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity (NTU)	1	1.17	0-1.0 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity (NTU)	10	10.31	0-1.0 NTU	<input checked="" type="radio"/>	<input type="radio"/>	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass		Comments
100 Day pH (5 check)	11.50	4	4.06	0-0.100	Yes	No	
100 Day pH (5 check)	11.16	7	7.08	0-0.100	Yes	No	
100 Day pH (5) check	10.04	10	10.11	0-0.100	Yes	No	

EQUIPMENT CALIBRATION LOG

Technician: <u>William Locker</u>	Date: <u>3/4/21</u>	Time: <u>8:27</u>	Time: <u>8:45</u>
Location: <u>789301</u>	Activity: <u>None</u>		By: <u>2068-0920</u>
Event: <u>Feb 2021 LF Sampling</u>	Weather/Conditions: <u>72°/30° sunny</u>		

Calibration Log

	Standard Lot # (Date of Expiration)	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <small>(Sp. DO% water saturated air sat)</small>				99.89	
Specific Conductance (µmhos)	20010925 8/21	2.32	4490	4242.7	
pH (25)	20010925 8/21	2.42	4	4.05	
pH (25)	19340957 8/21	3.55	7	7.11	
pH (25)	19320182 8/21	4.18	10	10.19	
ORP (mV)	19468167 8/21	4.66	228	225.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass		Comments
Specific 4 NTC	0	0.01	±0.1 NTC	Yes	No	
Specific 5 NTC	5	0.94	±0.1 NTC	Yes	No	
Specific 10 NTC	10	0.28	±0.1 NTC	Yes	No	

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass		Comments
Mid-Range pH (25) check	18.98	4	4.52 (4.1)	±0.1 (0)	Yes	No	
Mid-Range pH (7) check	16.61	7	7.14	±0.1 (0)	Yes	No	
Mid-Range pH (10) check	15.95	10	10.06	±0.1 (0)	Yes	No	

EQUIPMENT CALIBRATION LOG

<i>Kevin Spurgeon</i>	3/2/21	10:00 AM	10:00 AM
<i>78372</i>	System Name: <i>Lab Water Tank</i> - <i>9421-4417</i>		
<i>LF Sampling</i>	Sample Volume: <i>65°/35° C</i>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <small>(Type 100% water saturated air sat)</small>				<i>98.4%</i>	
Specific Conductance (µmhos)	20010925 N/21	<i>23.3</i>	4490	<i>1432.2</i>	
pH (H)	20010925 N/21	<i>2.74</i>	4	<i>3.98</i>	
pH (H)	19340057 N/21	<i>6.43</i>	7	<i>7.08</i>	
pH (H)	19320002 N/21	<i>10.10</i>	10	<i>10.06</i>	
ORP (mV)	19400047 N/21	<i>6.14</i>	220	<i>214.2</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	0	<i>0.03</i>	0-1 NTU	<input checked="" type="checkbox"/>	Yes
Turbidity (NTU)	1	<i>0.78</i>	0-1 NTU	<input checked="" type="checkbox"/>	Yes
Turbidity (NTU)	10	<i>10.26</i>	0-10 NTU	<input checked="" type="checkbox"/>	Yes

	Temp of Standard (°C)	Value of Standard	Temp Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (H) check	<i>20.83</i>	4	<i>4.08</i>	0-10	<input checked="" type="checkbox"/>	Yes
Mid Day pH (H) check	<i>20.72</i>	7	<i>7.06</i>	0-10	<input checked="" type="checkbox"/>	Yes
Mid Day pH (H) check	<i>20.06</i>	10	<i>10.06</i>	0-10	<input checked="" type="checkbox"/>	Yes

EQUIPMENT CALIBRATION LOG

Field Technician: Joe Bohn	Date: 3/9/21	Low Count: 0821	Time/Date: 08:38
Applied ID: 787310	Factory Model Type: 2020M	ID: 9453-4417	
Event: Bucks Feb 2021 LE Event			

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Type: 100% water saturated air sat)				100.31	
Specific Conductance (µmhos)	20010025 8/21	15.92	4490	4316.32	
pH (4)	20010025 8/21	15.96	4	4.00	
pH (7)	19340057 8/21	16.01	7	7.06	
pH (10)	19320182 8/21	16.10	10	10.08	
ORP (mV)	19460167 8/21	16.12	228	243	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	-0.02	±0.5 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity 1 NTU	1	1.13	±0.5 NTU	<input checked="" type="radio"/>	<input type="radio"/>	
Turbidity 10 NTU	10	10.34	±0.5 NTU	<input checked="" type="radio"/>	<input type="radio"/>	

	Temp of Standard (°C)	Value of Standard	Pass / Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	16.33	4	4.03	±0.1 pH	<input checked="" type="radio"/>	<input type="radio"/>	
Mid-Day pH (7) check	16.51	7	7.08	±0.1 pH	<input checked="" type="radio"/>	<input type="radio"/>	
Mid-Day pH (10) check	16.62	10	10.09	±0.1 pH	<input checked="" type="radio"/>	<input type="radio"/>	

EQUIPMENT CALIBRATION LOG

<i>Water Field Standard</i>	<i>3/1/21</i>	<i>10/16</i>	
<i>75/25</i>	<i>Standard Solution 7025</i>		
<i>NP Standard</i>	<i>Standard value 7.2°/9.5°, 50%</i>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <i>(Typ. 100% water saturated air cell)</i>				<i>97.85</i>	
Specific Conductance (µmhos)	<i>20010025 8/21</i>	<i>14.35</i>	<i>4990</i>	<i>4452.4</i>	
pH (6)	<i>20010025 8/21</i>	<i>14.31</i>	<i>4</i>	<i>4.02</i>	
pH (7)	<i>19340057 8/21</i>	<i>13.02</i>	<i>7</i>	<i>7.05</i>	
pH (8)	<i>19320162 8/21</i>	<i>12.14</i>	<i>10</i>	<i>10.09</i>	
ORP (mV)	<i>19440167 8/21</i>	<i>13.52</i>	<i>228</i>	<i>299.8</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass	Comments
Turbidity 0 NTU	<i>0</i>	<i>0.00</i>	<i>0-1 NTU</i>	<input checked="" type="checkbox"/>	
Turbidity 1 NTU	<i>1</i>	<i>0.93</i>	<i>0-1 NTU</i>	<input checked="" type="checkbox"/>	
Turbidity 10 NTU	<i>10</i>	<i>9.108</i>	<i>0-10 NTU</i>	<input checked="" type="checkbox"/>	

	Temp of Standard (°C)	Value of Standard	Field Calibration Reading	Acceptable Range	Pass	Comments
<i>Mid Day pH (6) check</i>	<i>13.50</i>	<i>4</i>	<i>4.06</i>	<i>0-10</i>	<input checked="" type="checkbox"/>	
<i>Mid Day pH (7) check</i>	<i>12.24</i>	<i>7</i>	<i>7.04</i>	<i>0-10</i>	<input checked="" type="checkbox"/>	
<i>Mid Day pH (8) check</i>	<i>11.19</i>	<i>10</i>	<i>10.08</i>	<i>0-10</i>	<input checked="" type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Technician: <u>William Looper</u>	Date: <u>3/10/21</u>	Time (start): <u>8:18</u>	Time (stop): <u>8:42</u>
Equipment ID: <u>789301</u>	Equipment Make/Type: <u>LaMotte 2020t</u>	Serial No: <u>2068-0320</u>	
Use: <u>Feb 2021 LF Sampling</u>	Weather/Conditions: <u>74°/47° sunny</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mV) <small>(25°C, 100% moist saturated air sat)</small>				48.90	
Specific Conductance (µmhos)	20018825 8/21	5.26	4490	4444.0	
pH (at)	20018825 8/21	5.95	4	4.00	
pH (r)	19348857 8/21	6.73	7	7.10	
pH (m)	19320180 8/21	7.05	10	10.09	
ORP (mV)	19860167 8/21	7.08	228	258.3	

		Value of Standard	Instrument Reading	Acceptable Range	Pass	Fail	Comments
Turbidity (NTU)		0	0.00	0-5 NTU	Yes	No	
Turbidity (1 NTU)		1	1.04	0-5 NTU	Yes	No	
Turbidity (10 NTU)		10	10.17	0-5 NTU	Yes	No	

		Temp of Standard (°C)	Value of Standard	Field Calibration Reading	Acceptable Range	Pass	Fail	Comments
Mid Day pH (at) check		19.14	4	4.72	4-8.5	Yes	No	
Mid Day pH (r) check		17.50	7	7.10	6-8.5	Yes	No	
Mid Day pH (m) check		17.19	10	10.11	9-8.5	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Station: <u>Kuio Stepland</u>	Date: <u>3/11/21</u>	Station: <u>1404</u>	Operator:
Instrument: <u>789317</u>	Model/Serial No.: <u>LAMDA-2000</u>	Factory No.: <u>7092-3818</u>	
Application: <u>LF Sampling</u>	Factory Calibration: <u>77%/50%, 0.0%</u>		

Calibration Log

	Standard Lot # (Date of Expiration)	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (at 20°C, must reference all cell)				<u>98.64</u>	
Specific Conductance (µmhos)	<u>2840025</u> 8/21	<u>23.51</u>	<u>490</u>	<u>460.8</u>	
pH (at)	<u>2891025</u> 8/21	<u>23.52</u>	<u>4</u>	<u>4.02</u>	
pH (°C)	<u>1934007</u> 8/21	<u>23.52</u>	<u>7</u>	<u>7.05</u>	
pH (mV)	<u>1932002</u> 8/21	<u>23.52</u>	<u>10</u>	<u>10.07</u>	
ORP (mV)	<u>1940067</u> 8/21	<u>23.52</u>	<u>228</u>	<u>22.2</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<u>0</u>	<u>0.01</u>	<u>0-0.5 NTU</u>	<u>Yes</u>	
Turbidity 1 NTU	<u>1</u>	<u>0.95</u>	<u>0-1.5 NTU</u>	<u>Yes</u>	
Turbidity 10 NTU	<u>10</u>	<u>10.06</u>	<u>0-15 NTU</u>	<u>Yes</u>	

	Temp of Standard (°C)	Value of Standard	Temp Calibration Reading	Acceptable Range	Pass?	Comments
Mid-day pH (7.0 check)	<u>23.52</u>	<u>4</u>	<u>4.09</u>	<u>0-1.0</u>	<u>Yes</u>	
Mid-day pH (7.0 check)	<u>23.52</u>	<u>7</u>	<u>7.04</u>	<u>0-1.0</u>	<u>Yes</u>	
Mid-day pH (10.0 check)	<u>23.52</u>	<u>10</u>	<u>10.03</u>	<u>0-1.0</u>	<u>Yes</u>	

EQUIPMENT CALIBRATION LOG

Field Location: <u>Joe Smith</u>	Date: <u>3/10/21</u>	Time: <u>0845</u>	Time: <u>0903</u>
Operator: <u>J. Smith</u>	Equipment Make/Type: <u>2070 w/c</u>	ID: <u>9457-4417</u>	
Project: <u>Survey for 2021 of Canal</u>			

Calibration Log

	Standard Lot #/Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mg/L) <small>(Type, 100% water saturated air sat)</small>				104.85	
Specific Conductance (µmhos)	20010025 8/21	6.91	4490	3802.2	
pH (6)	20010025 8/21	7.10	4	4.00	
pH (7)	19340057 8/21	7.75	7	6.98	
pH (8)	19320102 8/21	7.76	10	10.07	
ORP (mV)	19460167 8/21	8.01	228	255.1	

	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass	Fail	Comments
Turbidity 0 NTU		0	0.02	<= 0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity 1 NTU		1	1.10	<= 0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity 10 NTU		10	9.60	<= 0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass	Fail	Comments
Mid-Day pH (6) check	10.31	4	4.03	<= 0.1 pH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mid-Day pH (7) check	10.46	7	7.08	<= 0.1 pH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mid-Day pH (8) check	10.57	10	10.12	<= 0.1 pH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Jan Burtin</u>	Date: <u>2/11/21</u>	Time: <u>09:14</u>	Location: <u>CB41</u>
Equipment ID: <u>7851a</u>	Factory Model Type: <u>2020</u>	Serial Number: <u>9453-4417</u>	
Notes: <u>Feb 2021 4E Sampling</u>			

Calibration Log

	Standard Lot #/Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Typ. 100%, never returned air sat)				100.00	
Specific Conductance (µmhos)	20010025 8/21	12.52	4490	4490.2	
pH (m)	20010025 8/21	10.96	4	4.22	
pH (r)	19310057 8/21	11.37	7	7.16	
pH (b)	19310102 8/21	11.71	10	10.09	
ORP (mV)	19460167 8/21	11.90	228	245.2	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	0	-0.07	0-0.2 NTU	<input checked="" type="checkbox"/> No	
Turbidity (1 NTU)	1	1.36	0-1.1 NTU	<input checked="" type="checkbox"/> No	
Turbidity (10 NTU)	10	10.24	0-11 NTU	<input checked="" type="checkbox"/> No	

	Temp of Standard (°C)	Value of Standard	Field Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Range pH (m) check	13.13	4	4.03	0-11.00	<input checked="" type="checkbox"/> No	
Mid-Range pH (r) check	13.02	7	7.08	0-11.00	<input checked="" type="checkbox"/> No	
Mid-Range pH (b) check	13.98	10	10.10	0-11.00	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Technician: <u>William Lecher</u>	Date: <u>3/11/21</u>	Time: <u>8:28</u>	Duration: <u>1:45</u>
Location: <u>78930</u>	Equipment Make/Type: <u>LA MHC 2020E</u>	Serial No: <u>1068-0320</u>	
For: <u>Feb 2021 LF Sampling</u>	Weather/Conditions: <u>75°/50° cloudy</u>		

Calibration Log

	Standard Lot # Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) <small>(Sp. 100% water saturated air sat)</small>				99.34	
Specific Conductance (µmhos)	29010025 8/21	10.56	4499	4443.1	
pH(m)	29010025 8/21	11.11	4	4.06	
pH(C)	19340057 8/21	10.64	7	7.06	
pH(m)	19320102 8/21	10.46	10	10.17	
ORP(mV)	19440167 8/21	10.64	328	218.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Exceeding 0.4%T	0	0.08	≤0.4%T	Yes	No	
Exceeding 1.0%T	1	0.93	≤1.0%T	Yes	No	
Exceeding 10.0%T	10	10.10	≤10.0%T	Yes	No	

	Temp of Standard (°C)	Value of Standard	For Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Range pH (m) check	11.11	4	4.09	±0.1 pH	Yes	No	
Mid-Range pH (C) check	11.11	7	7.05	±0.1 pH	Yes	No	
Mid-Range pH (m) check	10.46	10	10.06	±0.1 pH	Yes	No	

EQUIPMENT CALIBRATION LOG

Operator: William Lucker	Date: 3/2/21	Time: 8:24	
Location: 799301	Equipment Make/Type: LaMotte 2020E		Lot: 2068-0320
Event: Feb 2021 LF Sampling	Weather/Conditions: 78°/50° sunny		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mV) (Sp. 100% water saturated at pH)				98.47	
Specific Conductance (uS/cm)	20010025 8/21	11.61	4490	4527.8	
pH (mV)	20010025 8/21	11.85	4	3.99	
pH (mV)	19320057 8/21	13.26	7	7.09	
pH (mV)	19320102 8/21	13.90	10	10.09	
ORP (mV)	19400167 8/21	13.86	228	222.8	

	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)		0	0.04	<=0.1 NTU	Yes	No
Turbidity (NTU)		1	1.06	<=0.2 NTU	Yes	No
Turbidity (NTU)		10	10.26	<=0.5 NTU	Yes	No

	Temp of Standard (°C)	Value of Standard	Post-Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (mV) check		21.61	4	4.07	Yes	No
Mid Day pH (mV) check		21.16	7	7.08	Yes	No
Mid Day pH (mV) check		21.42	10	10.05	Yes	No

Resolute

EQUIPMENT CALIBRATION LOG

Location: Joe Rudy Date: 3/12/21 Time: 08:27 Operator: 0849
 Equipment ID: 759310 Serial No. / Year: 2020 / 9453-4417
 Name: Feb 2021 LP BENT

Calibration Log

	Standard Lot # / Size of Expirates	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Sp. 100% water saturated air sat)				<u>98.98</u>	
Specific Conductance (µmhos)	<u>20010025</u> 8/21	<u>13.32</u>	<u>4490</u>	<u>3786.9</u>	
pH (H)	<u>20010025</u> 8/21	<u>13.36</u>	<u>4</u>	<u>3.75</u>	
pH (T)	<u>19340057</u> 8/21	<u>13.45</u>	<u>7</u>	<u>7.04</u>	
pH (M)	<u>19320082</u> 8/21	<u>13.60</u>	<u>10</u>	<u>10.19</u>	
ORP (mV)	<u>19460167</u> 8/21	<u>13.71</u>	<u>228</u>	<u>241.7</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	<u>0</u>	<u>0.01</u>	<u>±0.1 NTU</u>	<u>Yes</u> / No	
Turbidity (1 NTU)	<u>1</u>	<u>1.16</u>	<u>±0.2 NTU</u>	<u>Yes</u> / No	
Turbidity (10 NTU)	<u>10</u>	<u>10.32</u>	<u>±0.1 NTU</u>	<u>Yes</u> / No	

	Temp of Standard (°C)	Value of Standard	Per Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (H) check	<u>15.27</u>	<u>4</u>	<u>4.01</u>	<u>±0.100</u>	<u>Yes</u> / No	
Mid Day pH (T) check	<u>10.01</u>	<u>7</u>	<u>7.02</u>	<u>±0.100</u>	<u>Yes</u> / No	
Mid Day pH (M) check	<u>10.15</u>	<u>10</u>	<u>10.13</u>	<u>±0.100</u>	<u>Yes</u> / <u>No</u>	

Resolute

EQUIPMENT CALIBRATION LOG

Field Location: Los Baites Date: 3/18/21 Time (GMT): 08:30 Time (Local): 09:11
Equipment: 789710 Purchasing Dept: 2020 uc ID: 7453-4417
Usage: For 2021 Basis of Cost Number of Calibrations: _____

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Type 100% water saturated air sat)				100.43	
Specific Conductance (µmhos)	20010025 8/21	16.53	4000	2000	
pH (4)	20010025 8/21	16.54	4	4.04	
pH (7)	19340057 8/21	16.67	7	7.05	
pH (10)	19330102 8/21	16.45	10	9.98	
ORP (mV)	19460167 8/21	16.41	220	223.0	

	Temp of Standard (°C)	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Stability 0 mV		0	0.12	±0.1 mV	Yes	No
Stability 1 mV		1	1.33	±0.1 mV	Yes	No
Stability 10 mV		10	10.48	±0.1 mV	Yes	No

	Temp of Standard (°C)	Value of Standard	Temp Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Range pH (4) check	17.31	4	4.03	±0.10	Yes	No
Mid-Range pH (7) check	17.46	7	7.09	±0.10	Yes	No
Mid-Range pH (10) check	17.51	10	10.19	±0.10	Yes	No

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Leaker</u>	Date: <u>3/15/21</u>	Time: <u>8:57</u>	Location: <u>9/10</u>
Sample ID: <u>789301</u>	Calibration Type: <u>LaMotte 2020*</u>	Serial Number: <u>7068-0120</u>	
From: <u>Feb 2021 LF Sampling</u>	Water Temp: <u>69°/53° cloudy windy</u>		

Calibration Log

	Standard Lot #: Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading ± Uncertainty	Comments
BD (°C) (Yes, 100% must be used at all)				98.47	
Specific Conductance (µmhos)	20010025 8/21	16.60	4490	4530.3	
pH (m)	20010025 8/21	16.67	4	4.05	
pH (T)	19340057 8/21	16.67	7	7.06	
pH (m)	19320082 8/21	16.74	19	10.06	
ORP (mV)	19480067 8/21	16.78	228	222.3	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
				Yes	No	
Accuracy (mV)	0	0.20	±0.100	Yes	No	
Accuracy (pH)	1	1.12	±0.100	Yes	No	
Accuracy (mV)	10	10.57	±0.100	Yes	No	

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?		Comments
Mid Day pH (m) check	18.20	4	4.05	±0.100	Yes	No	
Mid Day pH (T) check	18.37	7	7.06	±0.100	Yes	No	
Mid Day pH (m) check	18.46	19	10.10	±0.100	Yes	No	

Technician: Kevin Stephenson Date: 3/10/21 Instrument ID: 0952 Model:
 Instrument: 751317 Location: Lab/Methods 2020 Phone: 301-285-1010
 Purpose: SELF Sampling Range: 0°/52°/50/10

Calibration Log

Parameter	Standard Lot # / Date of Expiration	Temp at Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mg/L) <i>(DO, 100% water corrected at sea)</i>				<u>10.13</u> <u>10.13</u>	
Specific Conductance (µmhos/cm)	<u>19010025</u> 8/21	<u>14.25</u>	<u>4.99</u>	<u>4535.3</u>	
pH (6)	<u>19010025</u> 8/21	<u>14.12</u>	<u>4</u>	<u>3.89</u>	
pH (7)	<u>19340057</u> 8/21	<u>14.26</u>	<u>7</u>	<u>7.02</u>	
pH (8)	<u>19320162</u> 8/21	<u>14.75</u>	<u>10</u>	<u>10.07</u>	
ORP (mV)	<u>19460167</u> 8/21	<u>15.02</u>	<u>328</u>	<u>224.9</u>	

Parameter	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity @ 1 NTU	<u>0</u>	<u>-0.01</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	
Turbidity @ 2 NTU	<u>1</u>	<u>0.98</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	
Turbidity @ 10 NTU	<u>10</u>	<u>9.50</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	

Parameter	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (6) check	<u>13.99</u>	<u>4</u>	<u>4.02</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	
Mid-Day pH (7) check	<u>13.85</u>	<u>7</u>	<u>4.07</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	
Mid-Day pH (8) check	<u>13.57</u>	<u>10</u>	<u>10.06</u>	<u>-0.1000</u>	<input checked="" type="checkbox"/> Yes	

EQUIPMENT CALIBRATION LOG

Technician: William Leaker	Date: 3/16/21	Station: T 40	Project: # 50
Location: 784301	Equipment Log: LAMBE 3020	Log #: 1008-0320	
Range: Feb 2021 LF Sampling	Water Column: 60'/50' run, 70' stars		

Calibration Log

	Standard No. / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (µM) 40µM, 100µM, 200µM, 300µM, 400µM				102.07	
Specific Conductance (µmhos)	20010025 8/21	12.44	4499	4485.7	
pH (m)	20010025 8/21	12.44	4	3.99	
pH (s)	19340057 8/21	13.18	7	7.00	
pH (10)	19320002 8/21	13.44	10	10.10	
ORP (mV)	19460167 8/21	13.45	228	294.7	

	Temp of Standard	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity @ 0.10		0	0.07	0-0.10 NTU	Yes/No	
Turbidity @ 1.00		1	0.96	0-1.00 NTU	Yes/No	
Turbidity @ 10.00		10	10.18	0-10.00 NTU	Yes/No	

	Temp of Standard (°C)	Value of Standard	For Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (10.00)		12.76	4	4.05	0-10.00	Yes/No
Mid Day pH (7.00)		12.99	7	7.15	0-10.00	Yes/No
Mid Day pH (4.00)		13.23	10	10.13	0-10.00	Yes/No

EQUIPMENT CALIBRATION LOG

Instrument: Kindt Spheros J Date: 5/17/21 Location: 1220
 Model: 78317 Manufacturer: Lubbell 2020 67042-3018
 Use: LF Sampling Serial Number: 64957, 90410

Calibration Log

Parameter	Standard Lot # (Date of Expiration)	Range of Standard (%)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mg/L) (20, 40% water saturated air sat)				100.35	
Specific Conductance (uS/cm)	20016825 8/21	14.30	490	448.0	
pH (4)	20016825 8/21	4.20	4	4.50	
pH (7)	19249957 8/21	4.10	7	7.06	
pH (10)	19520102 8/21	3.95	10	10.05	
ORP (mV)	19468167 8/21	3.89	228	232.2	

Parameter	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	0	0.01	-0.0001	Yes	
Turbidity (NTU)	1	0.91	-0.0001	Yes	
Turbidity (NTU)	10	9.89	-0.0001	Yes	

Parameter	Range of Standard (pH)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (4) check		4	4.02	-0.1001	Yes	
Mid Day pH (7) check		7	7.01	-0.1001	Yes	
Mid Day pH (10) check		10	10.13	-0.1001	Yes	

Resolute

EQUIPMENT CALIBRATION LOG

Field Station: Loc 3024 Date: 3/17/21 Instrument: 1022 Instrument ID: 0847
 Operator: 789710 Calibration Due: 2020-06 Phone: 9453-4417
 Name: Fels 2021 LF Pump Instrument Location: Loc 3024

Calibration Log

	Standard Name / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mV) (Typ. 100% water saturated air sat)				99.17	
Specific Conductance (µmhos)	10010025 8/21	10.61	4490	3145.4	
pH (4)	19910025 8/21	10.67	4	4.00	
pH (7)	19340057 8/21	10.76	7	7.06	
pH (10)	19320082 8/21	10.90	10	9.93	
ORP (mV)	19460167 8/21	11.05	128	236.0	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity (NTU)	0	0.07	<=0.1 NTU	Yes	
Turbidity (1 NTU)	1	1.14	<=0.1 NTU	Yes	
Turbidity (10 NTU)	10	10.26	<=0.1 NTU	Yes	

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (4) check	11.61	4	4.01	<=0.00	Yes	
Mid Day pH (7) check	11.73	7	7.06	<=0.00	Yes	
Mid Day pH (10) check	11.73	10	10.08	<=0.00	Yes	

EQUIPMENT CALIBRATION LOG

Customer: <u>William Lacker</u>	Date: <u>3/17/21</u>	Technician: <u>R. Yi</u>	Report No.: <u>1-57</u>
Equipment ID: <u>789301</u>	Factory Model/Year: <u>LaMotte 1010E</u>		Serial No.: <u>1068-0310</u>
Use: <u>Feb 2021 LF Sampling</u>	Sample Location: <u>64°/92° cloudy 70 / storms</u>		

Calibration Log

Parameter	Standard Lot #/Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Pass?		Comments
					Yes	No	
pH (7.0) <small>(pH 7.00's were returned as well)</small>				100.07			
Acidity (Acetic Acid)	20010025 8/21	11.06	4490	4436.7			
pH (4)	20010025 8/21	11.10	4	4.05 4.00			
pH (7)	19340037 8/21	11.31	7	7.11			
pH (10)	19330082 8/21	11.39	10	10.13			
ORP (mV)	19480167 8/21	11.19	328	231.1			

Parameter	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
				Yes	No	
Turbidity (0 NTU)	0	0.05	0-1 NTU	Yes	No	
Turbidity (1 NTU)	1	1.06	0-1 NTU	No	No	
Turbidity (10 NTU)	10	10.24	0-10 NTU	No	No	

Parameter	Temp of Standard (°C)	Value of Standard	Field Calibration Reading	Acceptable Range	Pass?		Comments
					Yes	No	
Mid Day pH (6.0)	16.15	4	4.03	0-1.00	Yes	No	
Mid Day pH (7.0)	14.90	7	7.08	0-0.50	Yes	No	
Mid Day pH (10.0)	14.72	10	10.12	0-1.00	Yes	No	

Field Location: Yard 2 (Staplewood) Date: 3/12/21 Instrument: 9942 Operator: _____
 Operator: 757317 Calibration Due: 1st March 2021 Range: 0-30.0
 For: LF Sampling Water: 60°/41°, 50°C

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Yes, 100% water saturated air sat)				9942	
Specific Conductance (µmhos)	10018825 8/21	17.35	4499	4522.3	
pH (4)	10018825 8/21	17.04	4	4.01	
pH (7)	19348857 8/21	16.59	7	7.07	
pH (10)	19320182 8/21	16.58	10	10.08	
ORP (mV)	19460167 8/21	16.67	228	258	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 4 NTU	0	0.03	0-4 NTU	<input checked="" type="checkbox"/>	Yes
Turbidity 1 NTU	1	0.86	0-1 NTU	<input checked="" type="checkbox"/>	Yes
Turbidity 10 NTU	10	9.63	0-10 NTU	<input checked="" type="checkbox"/>	Yes

	Temp of Standard (°C)	Value of Standard	Post-Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	12.70	4	4.11	0-4 NTU	<input checked="" type="checkbox"/>	Yes
Mid-Day pH (7) check	12.75	7	7.08	0-4 NTU	<input checked="" type="checkbox"/>	Yes
Mid-Day pH (10) check	12.68	10	10.09	0-4 NTU	<input checked="" type="checkbox"/>	Yes

EQUIPMENT CALIBRATION LOG

Field Contact: <u>William Lecher</u>	Date: <u>3/18/21</u>	Location: <u>Y 27</u>	Time (local):
Project ID: <u>784301</u>	Agency/Client: <u>LaMotte 2020t</u>	ID: <u>2069-0320</u>	
From: <u>Feb 2021 LF Sampling</u>	Water Temp: <u>67/45°</u> partly cloudy, 90' storm		

Calibration Log

	Standard Cat #/ Date of Expiration	Value of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO/DO ₂ (Sat. 100% when saturated at sea)				98.62	
Specific Conductance (µmhos)	20010025 8/21	15.70	4490	4499.4	
pH (6)	20010025 8/21	15.75	4	3.96	
pH (7)	19340057 8/21	15.59	7	7.05	
pH (8)	19320102 8/21	15.56	10	10.07	
DOF (sat)	19400047 8/21	15.57	118	112.1	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Conductivity (µM/S)	0	0.19	±0.000	Yes	No	
Conductivity (µM/S)	1	1.18	±0.000	Yes	No	
Conductivity (µM/S)	10	9.65	±0.000	Yes	No	

	Temp of Standard (°C)	Value of Standard	Raw Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (6) check	21.69	4	4.07	±0.000	Yes	No	
Mid-Day pH (7) check	20.17	7	7.07	±0.000	Yes	No	
Mid-Day pH (8) check	20.25	10	10.09	±0.000	Yes	No	

Technician: Joe Barden Date: 3/10/21 Time: 0828 Time: 0941
 Location: 789702 Facility Name: 2020 LLC ID: 9453-447
 From: Borden From Date: Feb 2021 LE: ESWT

Calibration Log

	Standard ID or Name of Exposure	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Type: 100% water saturated air sat)				98.70	
Specific Conductance (µmhos)	20010025 8/21	15.48	4490	3204.8	
pH (4)	20010025 8/21	15.52	4	3.97	
pH (7)	19320057 8/21	15.42	7	7.02	
pH (10)	19320102 8/21	15.52	10	10.39	
ORP (mV)	19440147 8/21	15.64	228	221.1	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity @ 1 NTU	0	0.03	<= 0.1 NTU	Yes	No
Turbidity @ 1 NTU	1	1.19	<= 0.1 NTU	Yes	No
Turbidity @ 1 NTU	10	10.45	<= 0.1 NTU	Yes	No

	Temp of Standard (°C)	Value of Standard	Pre Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (4) check	15.13	4	4.01	<= 0.10	Yes	No
Mid Day pH (7) check	16.24	7	7.09	<= 0.10	Yes	No
Mid Day pH (10) check	10.32	10	10.16	<= 0.10	Yes	No



EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Lueder</u>	Date: <u>3/19/21</u>	Field Length: <u>8:10</u>	Field (Start): <u>8:19</u>
Location: <u>789301</u>	Customer Name: <u>LaMotte 20204</u>	ID: <u>2068-0326</u>	
From: <u>Feb 2021 LF Sampling</u>	Weather Conditions: <u>54°/39° cloudy</u>		

Calibration Log

	Standard Size #1 Size of Sphere	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (µM) Exp. 100% water saturated per sat				100.15	
Specific Conductance (µS/cm)	10018025 8/21	9.76	4000	4513.1	
pH (at)	10018025 8/21	9.75	4	3.99	
pH (H)	10348057 8/21	10.12	7	7.04	
pH (H)	10328092 8/21	10.50	10	10.11	
Cond (µS/cm)	10468067 8/21	10.75	220	234.7	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity @ 1 NTU	0	0.19	0-0.1 NTU	Yes	No	
Turbidity @ 1 NTU	1	1.04	0-0.1 NTU	Yes	No	
Turbidity @ 1 NTU	10	10.22	0-0.1 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Field Collection Reading	Acceptable Range	Pass?		Comments
1000 Day pH (at) check	12.40	4	4.10	0-0.10	Yes	No	
1000 Day pH (H) check	11.62	7	7.12	0-0.10	Yes	No	
1000 Day pH (H) check	11.10	10	10.12	0-0.10	Yes	No	

Resolute

EQUIPMENT CALIBRATION LOG

Unit Name: ICE Broom Date: 3/14/21 Line ID: 0787 Line Group: 0013
 Applied to: 784210 Calibration Exp: 2020-12 ID: 9453.4417
 From: FEB 2021 LF F-125 Product Name:

Calibration Log

	Standard ID or Name or Description	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (Type, 100% water saturated air sat)				101.60	
Specific Conductance (µmhos)	20010025 8/21	9.12	4490	7481.7	
pH (4)	20010025 8/21	9.12	4	4.01	
pH (7)	19340057 8/21	9.03	7	7.01	
pH (10)	19320102 8/21	9.02	10	10.18	
ORP (mV)	19460167 8/21	9.02	228	237.2	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.01	<=0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity 1 NTU	1	1.16	<=0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity 10 NTU	10	10.39	<=0.1 NTU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

	Temp of Standard (°C)	Value of Standard	Pass Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Range pH (4) check		4		<=0.1 (U)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mid-Range pH (7) check		7		<=0.1 (U)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Mid-Range pH (10) check		10		<=0.1 (U)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Name: Karin Ferguson Date: 3/26/21 Instrument: 1058
 ID: 989217 Location: Lab Phone: 7042-3818
 Use: LF Sampling Range: 79°/540 200%

Calibration Log

	Standard Lot # Date of Expiration	Temp of standard (°C)	Volume of standard	Instrument Reading at Calibration	Comments
100 µL (Apq. 100% water retention at sat)				101.7	
Specific Conductance (µmhos)	20000025 8/21	22.00	400	488.9	
pH (m)	20000025 8/21	22.00	4	4.01	
pH (m)	09340007 8/21	23.52	7	7.03	
pH (m)	09320102 8/21	23.45	10	6.93	
ORP (mV)	09400107 8/21	23.25	220	212.5	

	Temp of standard (°C)	Volume of standard	Instrument Reading	Acceptable Range	Pass?	Comments
Accuracy 0.5%		0	0.00	-0.15%	Yes	
Accuracy 1.5%		1	0.91	-0.15%	Yes	
Accuracy 10.5%		10	9.68	-0.15%	Yes	

	Temp of standard (°C)	Volume of standard	Pre-Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Box pH (m) check	20.0	4	4.02	-0.15%	Yes	
Mid-Box pH (m) check	23.48	7	7.07	-0.15%	Yes	
Mid-Box pH (m) check	23.4	10	6.93	-0.15%	Yes	



EQUIPMENT CALIBRATION LOG

Technician: <u>William Looker</u>	Date: <u>3/29/21</u>	Time: <u>8:29</u>	Type: <u>Other</u>
Location: <u>785361</u>	Instrument: <u>LaMotte 20304</u>	ID: <u>2043-0320</u>	
From: <u>March 2021 AP Sem</u>	Next Calibration: <u>6/7/21</u>		

Calibration Log

	Standard Lot #/ Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
50 °C <small>(opt. 100% water returned at 50°C)</small>				100.25	
Specific Conductance (µmhos)	20070024-0/01 204416203-0/01 20040000-0/01	3.94	4490	4617.9	
pH 4		3.95	4	3.94	
pH 7	19348057 8/21	7.51	7	7.04	
pH 10	19328040 8/21	9.84	10	10.14	
ORP (mv)	19468067 8/21	9.94	228	241.1	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity @ 1 NTU	0	0.13	≤0.1 NTU	Yes	No	
Turbidity @ 3 NTU	3	1.06	≤0.1 NTU	Yes	No	
Turbidity @ 10 NTU	10	10.28	≤0.1 NTU	No	No	

	Temp of Standard (°C)	Value of Standard	Full Calibration Reading	Acceptable Range	Pass?		Comments
Hardness pH (°C) check		17.87	4	≤0.100°	Yes	No	
Hardness pH (°C) check		18.29	7	≤0.100	Yes	No	
Hardness pH (°C) check		19.86	10	≤0.100	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Location: <u>William Leiber</u>	Date: <u>5/26/21</u>	Time of calibration: <u>7:08</u>	Time (Setting Check): <u>12:45</u>
Sample ID: <u>789301</u>	Equipment Make/Type: <u>LaMotte 2020 ITC</u>	SN: <u>20687-0320</u>	
From: <u>May 2021 Resample</u>	Weather Conditions: <u>81°/67° sunny</u>		

Calibration Log

	Standard Lot #/Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (mg/l) <small>(Dil. 100% water saturated air sat)</small>				98.49	
Specific Conductance (µmhos)	28448203 8/22	22.16	4498	4646.2	
pH (25)	28448203 8/22	22.20	4	4.10	
pH (7)	19328057 8/21	22.58	7	7.12	
pH (10)	19328182 8/21	22.50	10	10.07	
ORP (mV)	19465167 8/21	22.75	228	222.3	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity @ 1 NTU	0	0.00	±0.2 NTU	Yes	No	
Turbidity @ 5 NTU	5	1.01	±0.2 NTU	Yes	No	
Turbidity @ 10 NTU	10	9.57	±0.2 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Pre-Calibration Reading	Acceptable Range	Pass?		Comments
100-day pH (25) check	24.23	4	4.02	±0.1 pH	Yes	No	
100-day pH (7) check	20.85	7	7.09	±0.1 pH	Yes	No	
100-day pH (10) check	20.81	10	10.08	±0.1 pH	Yes	No	

1. *Project Name:* [Handwritten: ...] *Value:* [Handwritten: ...] *Start Date:* [Handwritten: ...] *End Date:* [Handwritten: ...]

2. *Project Manager:* [Handwritten: ...] *Project Number:* [Handwritten: ...]

3. *Project Description:* [Handwritten: ...]

Equipment Log

	ITEM #	ITEM NAME	Value of Item	Estimated Working Life	Category
ITEM #					
ITEM NAME	2014020101	[Handwritten]	4000	[Handwritten]	
Value	2014020102	[Handwritten]	4	[Handwritten]	
Category	2014020103	[Handwritten]	7	[Handwritten]	
Category	2014020104	[Handwritten]	10	[Handwritten]	
Category	2014020105	[Handwritten]	20	[Handwritten]	

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	Value of Item	Estimated Working Life	Depreciation Rate	Cost	Item #
Item #	0	[Handwritten]	100%	[Handwritten]	
Item #	1	[Handwritten]	100%	[Handwritten]	
Item #	10	[Handwritten]	100%	[Handwritten]	

	ITEM #	Value of Item	Estimated Working Life	Depreciation Rate	Cost	Item #
Item #	2014020101	4	[Handwritten]	100%	[Handwritten]	
Item #	2014020102	7	[Handwritten]	100%	[Handwritten]	
Item #	2014020103	10	[Handwritten]	100%	[Handwritten]	

WELL INSPECTION

Groundwater Monitoring Well Integrity Form

Site Name: Plant Pavilion LF
 Permit Number: _____
 Well ID: GWA-1
 Date, field conditions: 2/23/21 6:30/3:30 sunny

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		
7 Corrective actions as needed, by date:				

Signature and Seal of PERPG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen LF
 Permit Number _____
 Well ID GWA-2
 Date, field conditions 2/23/21 68°/73° sunny

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Bowen LF
 Permit Number _____
 Well ID GWA-2R
 Date, field conditions 2/23/21 6:30/3:30 sunny

		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 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 Bowen LF
 Permit Number _____
 Well ID GWA-3A
 Date, field conditions 2/23/21 6:30/3:30 sunny

		yes	no	n/a
1	<u>Location/Identification</u>			
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	<u>Protective Casing</u>			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		✓	- needs gravel
e	Is the well locked and is the lock in good condition?		✓	needs lock
3	<u>Surface pad</u>			
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	<u>Internal casing</u>			
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 boilers)?	✓		
c	Is the well properly vented for equilibration of air pressure?		✓	- needs vent hole
d	Is the survey point clearly marked on the inner casing?		✓	
e	Is the depth of the well consistent with the original well log?			✓
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		✓	
5	<u>Sampling: Groundwater Wells Only</u>			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7	Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Brown LF
 Permit Number _____
 Well ID GWA-4
 Date, field conditions 2/23/21 CR/SS sunny

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		✓
7 Corrective actions as needed, by date:				

needs vent hole

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Bowen LF
 Permit Number: _____
 Well ID: GWA-48
 Date, field conditions: 2/23/11 6:30/33° sunny

		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 checked="" type="checkbox"/>	<input type="checkbox"/> - needs vent hole
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input type="checkbox"/>	<input type="checkbox"/>	<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 Bowen LF
 Permit Number _____
 Well ID GWA-482
 Date, field conditions 2/23/21 68°/35° sunny

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 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 the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen LF
 Permit Number _____
 Well ID GWC-5
 Date, field conditions 2/13/11 68°/33° sunny

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 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 the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	✓	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen LF
 Permit Number _____
 Well ID GWC-6
 Date, field conditions 2/23/11 6:30 AM sunny

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Boston LF
 Permit Number _____
 Well ID GWC-GR7
 Date, field conditions 1/13/21 GA 33' sandy

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	/	—	—
b	Is the well properly identified with the correct well ID?	/	—	—
c	Is the well in a high traffic area and does the well require protection from traffic?	—	/	—
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	/	—	—
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	/	—	—
b	Is the casing free of degradation or deterioration?	/	—	—
c	Does the casing have a functioning weep hole?	/	—	—
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	/	—	—
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 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 the original well log?	/	—	—
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/	—	—
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	/	—	—
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	/	—	—
c	Does the well require redevelopment (low flow, turbid)?	—	/	—
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	/	—	—

7 Corrective actions as needed, by date:
*one bent ballard

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowers
 Permit Number _____
 Well ID GW-72
 Date, field conditions 2/23/21

	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 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 GWK B 2
 Date, field conditions 2/23/11

	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Branch
 Permit Number _____
 Well ID OWC - RR
 Date, field conditions 2/23/21

		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 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 Pilot Basin
 Permit Number _____
 Well ID CA-11 - 59
 Date, field conditions 2/23/21

		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 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 Bowen
 Permit Number _____
 Well ID GWC-10
 Date, field conditions 2/23/21

	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 checked="" 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"/>
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 Plant Bowen
 Permit Number _____
 Well ID GW-10R
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Bowen
 Permit Number _____
 Well ID GW-11
 Date, field conditions 2/23/21

		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 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 Bowen
 Permit Number _____
 Well ID GW1 - 11R
 Date, field conditions 2/25/21

		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 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 Basin
 Permit Number _____
 Well ID GW-12
 Date, field conditions 2/23/24

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Bowen
 Permit Number _____
 Well ID BW1-13
 Date, field conditions 2/23/21

		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 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 Bowen
 Permit Number _____
 Well ID Case 13 RZ
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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 Bowen
 Permit Number _____
 Well ID GW-142
 Date, field conditions 2/23/11

		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 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 Brown
 Permit Number _____
 Well ID GW-107
 Date, field conditions 2/25/21

		yes	no	n/a
1 Location/identification				
a	is the well visible and accessible?	✓		
b	is the well properly identified with the correct well ID?	✓		
c	is the well in a high traffic area and does the well require protection from traffic?			
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		✓	
2 Protective Casing				
a	is the protective casing free from apparent damage and able to be secured?	✓		
b	is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Basin
 Permit Number _____
 Well ID GW-15R
 Date, field conditions 2/23/21

		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 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 Bowen LF
 Permit Number _____
 Well ID GWA-50
 Date, field conditions 2/23/21 68°/33° sunny

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		
7 Corrective actions as needed, by date				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen LF
 Permit Number _____
 Well ID GWIA-508
 Date, field conditions 7/23/21 68°/53° sunny

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 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 the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓	_____	_____
7	Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bunker
 Permit Number _____
 Well ID GW-16
 Date, field conditions 2/22/21

		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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Brown
 Permit Number _____
 Well ID GW-302
 Date, field conditions 2/25/21

		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 pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:				
<u>well will be redrilled on 3/10/21</u>				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Preston
 Permit Number _____
 Well ID GW-37
 Date, field conditions 1/23/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Duck Pond
 Permit Number _____
 Well ID GW-33
 Date, field conditions 2/2/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Borecs
 Permit Number _____
 Well ID GW-16-03
 Date, field conditions 2/26/21

		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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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 Growth
 Permit Number _____
 Well ID GW-172
 Date, field conditions 2/23/21

	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input 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 Pine Point
 Permit Number _____
 Well ID CA15 - 10
 Date, field conditions 2/25/21

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	✓
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Pinst. Bore
 Permit Number _____
 Well ID W-186
 Date, field conditions 2/2/21

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name _____
 Permit Number _____
 Well ID _____
 Date, field conditions _____

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 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/PO responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Barea
 Permit Number _____
 Well ID GW-20R
 Date, field conditions 2/23/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Basin
 Permit Number _____
 Well ID GW-21R
 Date, field conditions 2/23/01

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
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 bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Purot Boreco
 Permit Number _____
 Well ID GW-22B
 Date, field conditions 2/23/21

		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 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	<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 Form

Site Name Plant Bunker
 Permit Number _____
 Well ID GW-21R
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling - Groundwater Wells Only				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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 6000
 Permit Number _____
 Well ID W-248
 Date, field conditions 2/23/03

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Preston
 Permit Number _____
 Well ID 126-25R
 Date, field conditions 2/23/21

		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 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	<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 Form

Site Name Punt Buren
 Permit Number _____
 Well ID WVA - 5162
 Date, field conditions 2/23/21

		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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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 Pump Station
 Permit Number _____
 Well ID GW-52
 Date, field conditions 2/22/21

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name _____
 Permit Number 21407 Bowen
 Well ID _____
 Date, field conditions CWA - 53
2/29/11

		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 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	<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 type="checkbox"/>	<input checked="" 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 Boring
 Permit Number _____
 Well ID GW-23
 Date, field conditions 2/23/23

		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 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 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 Plant Bunkers
 Permit Number _____
 Well ID GW-104
 Date, field conditions 2/25/21

		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 tailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Basin
 Permit Number _____
 Well ID GW-55
 Date, field conditions 2/27/01

		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 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 Bunka
 Permit Number _____
 Well ID GW-5 - 25 B
 Date, field conditions 2/23/21

		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 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 Pump Station
 Permit Number _____
 Well ID GW-1-130
 Date, field conditions 2/23/11

		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 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 Bldg
 Permit Number _____
 Well ID GW-312
 Date, field conditions 2/23/21

		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 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 Bunker
 Permit Number _____
 Well ID GWA-39RZ
 Date, field conditions 2/23/21

		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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input 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 Plant Basin
 Permit Number _____
 Well ID GW4-4B
 Date, field conditions 2/23/21

		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 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	<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 Form

Site Name Plant Bowen
 Permit Number _____
 Well ID CWA-41
 Date, field conditions 2/23/21

		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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" 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 Bawca
 Permit Number _____
 Well ID GW 9 - 41R
 Date, field conditions 2/27/21

		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 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 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 Beach
 Permit Number _____
 Well ID GWA-42
 Date, field conditions 2/23/11

		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 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 Bunker
 Permit Number _____
 Well ID GW A - 43
 Date, field conditions 2/23/21

		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 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 Pilant Brown
 Permit Number _____
 Well ID GWA-43B
 Date, field conditions 2/25/21

		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 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 Borehole
 Permit Number _____
 Well ID GW-44
 Date, field conditions 2/23/21

		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 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 Bowen
 Permit Number _____
 Well ID GW1 - 45
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Pkwt Basin
 Permit Number _____
 Well ID GW-45B
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 _____
 Permit Number _____
 Well ID _____
 Date, field conditions _____

	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 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 Bowen
 Permit Number _____
 Well ID W-47
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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 Power
 Permit Number _____
 Well ID GW-47B
 Date, field conditions 2/23/21

		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 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: Phost Beach
 Permit Number: _____
 Well ID: 107-112
 Date, field conditions: 1/2/24

		yes	no	n/a
1 Location/identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
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 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 the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓		
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Brown
 Permit Number _____
 Well ID GW-492
 Date, field conditions 2/27/21

		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 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 Brown
 Permit Number _____
 Well ID GW-478
 Date, field conditions 2/23/21

		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program 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

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 December 5, 2020 through June 3, 2021

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) 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. The program was initiated in 2014 at Cells 1 & 2, expanded in 2015 and 2016 to Cells 3 & 4 and Cells 9 & 10, respectively. During this reporting period transducers were deployed in overburden and bedrock wells as follows:

- Cells 1 & 2: six soil wells (GWA-1 (soil/rock), GWA-3A, 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).
- Cells 3 & 4: 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).
- Cells 9 & 10: 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).

- Etowah River levels and rainfall data for the reporting period were obtained from a U.S. Geological Survey gauge (02394670) near Cartersville, Georgia.

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.

Maintenance Observations

During the reporting period, the following well locations (GWA-1, GWA-2R, GWA-3, GWA-3A, GWC-6RZ, GWC-7Z, GWC-15, GWC-15R, GWC-16R, GWC-18, GWC-18R, GWC-24R, GWC-25R, GWA-36R, GWA-37, GWA-53, GWA-53R, GWA-55, GWA-55R, GWA-39RZ, GWA-39Z, GWA-41, GWA-41R, GWC-45R, GWC-47, GWC-47R, GWC-49R, and GWC-49Z) were visited on one or more occasions for maintenance, manual data downloads, battery change outs, transducer replacement, desiccant 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. Well GWA-3 was abandoned on February 19, 2021 and well GWA-3A was installed as the replacement well and completed on March 16, 2021. During the past six-month period, transducers from wells GWA-2R, GWA-3, and GWC-25R were returned to In-Situ® for repair or exchanged for a new transducer and reinstalled. A new transducer was installed in the replacement well GWA-3A in April 2021. In addition, the modem was replaced at location GWA-2R. 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 December 5, 2020 and June 3, 2021. 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 gauging and transducer maintenance activities during the reporting period and are considered known disruptions. 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 31, 2021. Repairs consisted of resetting reference

water elevation depth, resealing boxes, ant infestation control, replacing desiccants and replacing power controller units and batteries. Periodic sampling and maintenance may induce drifts in pressure readings. When significant drifts are noted, the reference depth to water is re-set and the logging cycle is re-started. 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 stable trend during this six-month period with an increase and then decrease visible in the months of April and May 2021. The fluctuations of groundwater elevations mimic the Etowah River levels in response to rain events and wet conditions. 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 December 5, 2020 through June 3, 2021 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 (December 5, 2020 through June 3, 2021), Wood recommends the following actions:

- Periodically check groundwater elevations in the field and correct for pressure data drifts.
- Perform periodic maintenance of the system.
- 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
December 5, 2020 to June 3, 2021
Georgia Power - Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10

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	2/23/2021	3/16/2021	Groundwater CCR Event #16	1/22/2021	Replaced desiccants.
	GWA-2	2/23/2021	3/17/2021	Groundwater CCR Event #16		
	GWA-2R	2/23/2021	3/16/2021	Groundwater CCR Event #16	1/21-22/2021	Replaced worn-out transducer, changed desiccants and rebooted transducer.
	GWA-3A	2/23/2021	3/29/2021	Groundwater CCR Event #16	4/30/2021	New transducer installed.
	GWA-4RZ	2/23/2021	3/16/2021	Groundwater CCR Event #16		Full evacuation during purging on 3/15/21
	GWC-5	2/23/2021	3/17/2021	Groundwater CCR Event #16		
	GWC-6	2/23/2021	3/17/2021	Groundwater CCR Event #16		
	GWC-6RZ	2/23/2021	3/17/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWC-7Z	2/23/2021	3/17/2021	Groundwater CCR Event #16	3/24/2021	Replaced battery.
	GWC-8Z	2/23/2021	3/18/2021	Groundwater CCR Event #16		
	GWC-8RR	2/23/2021	3/17/2021	Groundwater CCR Event #16		
	GWC-9	2/23/2021	3/18/2021	Groundwater CCR Event #16		
	GWC-10	2/23/2021	3/18/2021	Groundwater CCR Event #16		
	GWC-10R	2/23/2021	3/18/2021	Groundwater CCR Event #16		
	GWC-11	2/23/2021	3/19/2021	Groundwater CCR Event #16		
	GWC-11R	2/23/2021	3/19/2021	Groundwater CCR Event #16		
	GWC-11R	5/26/2021	5/26/2021	Resampling event		
	GWC-12	2/23/2021	3/19/2021	Groundwater CCR Event #16		
	GWC-13	2/23/2021	3/18/2021	Groundwater CCR Event #16		
	GWC-13R and GWC-13RZ	2/23/2021	3/19/2021	Groundwater CCR Event #16		GWC-13RZ was fully evacuated during purging on 3/18/21. 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-14Z	2/23/2021	3/18/2021	Groundwater CCR Event #16			
GWC-15 and GWC-15Z	2/23/2021	3/18/2021	Groundwater CCR Event #16	1/28/2021	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. Replaced desiccants.	
GWC-15R	2/23/2021	3/18/2021	Groundwater CCR Event #16	1/28/2021	Rotated battery clamps on pole so that the battery would lie flat.	
GWA-50	2/23/2021	3/17/2021	Groundwater CCR Event #16			
GWA-50R	2/23/2021	3/17/2021	Groundwater CCR Event #16			
GWA-36	2/23/2021	2/24/2021	Groundwater CCR Event #16			
3 & 4	GWA-36R	2/23/2021	3/26/2021	Groundwater CCR Event #16	1/21/2021	Troubleshooting due to connection issue with transducer. Cable needs replacing. Attempted Redevelopment, filtered and unfiltered samples collected.
	GWA-37	2/23/2021	2/24/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants and gasket seal.
	GWA-38	2/23/2021	2/24/2021	Groundwater CCR Event #16		
	GWC-16R	2/23/2021	3/9/2021	Groundwater CCR Event #16	1/28/2021	Full evacuation during purging on 3/9/21. Replaced
	GWC-17R	2/23/2021	3/10/2021	Groundwater CCR Event #16		
	GWC-18	2/23/2021	2/26/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWC-18R	2/23/2021	2/26/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWC-19R	2/23/2021	2/26/2021	Groundwater CCR Event #16		
	GWC-20R	2/23/2021	3/9/2021	Groundwater CCR Event #16		
	GWC-21R	2/23/2021	3/9/2021	Groundwater CCR Event #16		
	GWC-22R	2/23/2021	3/9/2021	Groundwater CCR Event #16		
	GWC-23R	2/23/2021	3/10/2021	Groundwater CCR Event #16		Full evacuation during purging on 3/10/21.
	GWC-24R	2/23/2021	3/9/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWC-25R	2/23/2021	3/9/2021	Groundwater CCR Event #16	1/22/2021	Removed battery and disconnected modem-power cycle. Replaced both desiccants. Replaced battery.
	GWC-25R	2/23/2021	3/9/2021	Groundwater CCR Event #16	3/24/2021	Replaced battery and removed/reset fuses, cleaned corrosion and bottom wires on fuse block.
	GWC-25R	2/23/2021	3/9/2021	Groundwater CCR Event #16	4/29/2021	Intermittent data collection. Replaced transducer due to battery issue.
	GWA-51RZ	2/23/2021	2/25/2021	Groundwater CCR Event #16		Full evacuation during purging on 2/25/21
	GWA-52	2/23/2021	2/24/2021	Groundwater CCR Event #16		
	GWA-53	2/23/2021	2/26/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWA-53R	2/23/2021	2/26/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
GWA-54	2/23/2021	2/25/2021	Groundwater CCR Event #16			
GWA-55	2/23/2021	2/25/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.	
GWA-55R	2/23/2021	2/25/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.	
GWA-56	2/23/2021	2/25/2021	Groundwater CCR Event #16			

TABLE 1
Known Sampling and Gauging Events Relative to Water Level Fluctuations
December 5, 2020 to June 3, 2021
Georgia Power - Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10

Solid Waste Disposal Cells	Well ID	Date Well Gauged	Date Well Sampled	Sampling Comments	Most Recent Transducer Network Maintenance Per Well	Comments
9 & 10	GWA-39Z	2/23/2021	3/12/2021	Groundwater CCR Event #16	1/22/2021	Checked voltage. Auxiliary battery wires burnt, fuse has good continuity, and modem unplugged.
	GWA-39Z	2/23/2021	3/12/2021	Groundwater CCR Event #16	1/28/2021	Rebooted transducer.
	GWA-39RZ	2/23/2021	3/16/2021	Groundwater CCR Event #16	1/22/2021	Checked voltage. Auxiliary battery wires burnt, fuse has good continuity, and modem unplugged.
	GWA-39RZ	2/23/2021	3/16/2021	Groundwater CCR Event #16	1/28/2021	Rebooted transducer. Full evacuation during purging on 3/15/21.
	GWA-40	2/23/2021	3/10/2021	Groundwater CCR Event #16		
	GWA-41	2/23/2021	3/11/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWA-41R	2/23/2021	3/10/2021	Groundwater CCR Event #16	1/28/2021	Replaced desiccants.
	GWA-42	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWA-43	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWA-43R	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWC-44	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWC-45	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWC-45R	2/23/2021	3/11/2021	Groundwater CCR Event #16	1/22/2021	Adjusted reference elevation and replaced desiccants.
	GWC-45R	2/23/2021	3/11/2021	Groundwater CCR Event #16	3/24/2021	Replaced battery.
	GWC-46R	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWC-46R	5/26/2021	5/26/2021	Resampling event		
	GWC-47	2/23/2021	3/11/2021	Groundwater CCR Event #16	1/22/2021	Adjusted reference elevation and replaced desiccants
	GWC-47R	2/23/2021	3/11/2021	Groundwater CCR Event #16	1/22/2021	Adjusted reference elevation and replaced desiccants
	GWC-48	2/23/2021	3/11/2021	Groundwater CCR Event #16		
	GWC-48	5/26/2021	5/26/2021	Resampling event		
GWC-49Z	2/23/2021	3/15/2021	Groundwater CCR Event #16	1/22/2021	Replaced desiccants.	
GWC-49R	2/23/2021	3/15/2021	Groundwater CCR Event #16	1/22/2021	Adjusted reference elevation and replaced desiccants	

TABLE 2
Maintenance Information and Recommendations
December 5, 2020 to June 3, 2021
Georgia Power - Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10

Cell	Monitoring Well	Date	Maintenance Information	Recommendations
Cells 1&2	GWA-1	1/22/2021	Replaced desiccants.	No action needed.
Cells 1&2	GWA-2R	1/21/2021	Replaced worn-out transducer.	Replace modem and weather gasket.
Cells 1&2	GWA-2R	1/22/2021	Replaced desiccants and rebooted transducer.	No action needed.
Cells 1&2	GWA-3	2/19/2021	Transducer removed from GWA-3 prior to well abandonment on 2/19/2021 and stored off-site.	GWA-3 was replaced with new well GWA-3A on 3/16/2021.
Cells 1&2	GWA-3A	4/30/2021	Installed new transducer in new well.	No action needed.
Cells 1&2	GWA-4RZ		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWA-50		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWA-50R		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-5		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-6		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-6RZ	1/28/2021	Replaced desiccants.	No action needed.
Cells 1&2	GWC-7Z	3/24/2021	Replaced battery.	No action needed.
Cells 1&2	GWC-8RR		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-8Z		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-9		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-10		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-10R		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-11		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-11R		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-12		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-13		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-13R		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-13RZ		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-14Z		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-15	1/28/2021	Replaced desiccants.	No action needed.
Cells 1&2	GWC-15Z		No functional issues during this reporting period.	No action needed.
Cells 1&2	GWC-15R	1/28/2021	Rotated battery clamps on pole so that the battery would lie flat.	No action needed.
Cells 3&4	GWC-16R	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWC-17R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-18	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWC-18R	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWC-19R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-20R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-21R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-22R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-23R		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWC-24R	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWC-25R	1/22/2021	Removed battery and disconnected modem-power cycle. Replaced both desiccants.	Replace battery.
Cells 3&4	GWC-25R	3/24/2021	Replaced battery and removed/reset fuses, cleaned corrosion and bottom wires on fuse block.	Replace box and cut trees.
Cells 3&4	GWC-25R	4/29/2021	Replaced transducer due to battery issue.	No action needed.

TABLE 2
Maintenance Information and Recommendations
December 5, 2020 to June 3, 2021
Georgia Power - Plant Bowen
Landfill Cells 1&2, 3&4, and 9&10

Cell	Monitoring Well	Date	Maintenance Information	Recommendations
Cells 3&4	GWA-36		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-36R	1/21/2021	Troubleshooting due to connection issue with transducer. Cable needs replacing	Replace cable.
Cells 3&4	GWA-36RA		New well GWA-36RA to replace GWA-36R	Install transducer and add to telemetry system
Cells 3&4	GWA-37	1/28/2021	Replaced desiccants and gasket seal.	No action needed.
Cells 3&4	GWA-38		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-51RZ		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-52		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-53	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWA-53R	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWA-54		No functional issues during this reporting period.	No action needed.
Cells 3&4	GWA-55	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWA-55R	1/28/2021	Replaced desiccants.	No action needed.
Cells 3&4	GWA-56		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-39RZ	1/22/2021	Checked voltage. Auxiliary battery wires burnt, fuse has good continuity, and modem unplugged.	Rebuild wired connections in lower connections in battery compartment. Plug modem back into power supply.
Cells 9&10	GWA-39RZ	1/28/2021	Rebooted transducer.	No action needed.
Cells 9&10	GWA-39Z	1/22/2021	Checked voltage. Auxiliary battery wires burnt, fuse has good continuity, and modem unplugged.	Rebuild wired connections in lower connections in battery compartment.
Cells 9&10	GWA-39Z	1/28/2021	Rebooted transducer.	No action needed.
Cells 9&10	GWA-40		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWA-41	1/28/2021	Replaced desiccants.	No action needed.
Cells 9&10	GWA-41R	1/28/2021	Replaced desiccants.	No action needed.
Cells 9&10	GWA-42		No functional issues during this reporting period.	No action needed.
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-44		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	1/22/2021	Adjusted reference elevation and changed desiccants.	No action needed.
Cells 9&10	GWC-45R	3/24/2021	Replaced battery.	No action needed.
Cells 9&10	GWC-46R		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-47	1/22/2021	Adjusted reference elevation and replaced desiccants	No action needed.
Cells 9&10	GWC-47R	1/22/2021	Adjusted reference elevation and replaced desiccants	No action needed.
Cells 9&10	GWC-48		No functional issues during this reporting period.	No action needed.
Cells 9&10	GWC-49R	1/22/2021	Replaced desiccants and adjusted reference elevation.	No action needed.
Cells 9&10	GWC-49Z	1/22/2021	Replaced desiccants.	No action needed.
	River		No functional issues during this reporting period.	No action needed.

FIGURES

Figure 1A - Cell 1&2 Transducer Level Monitoring

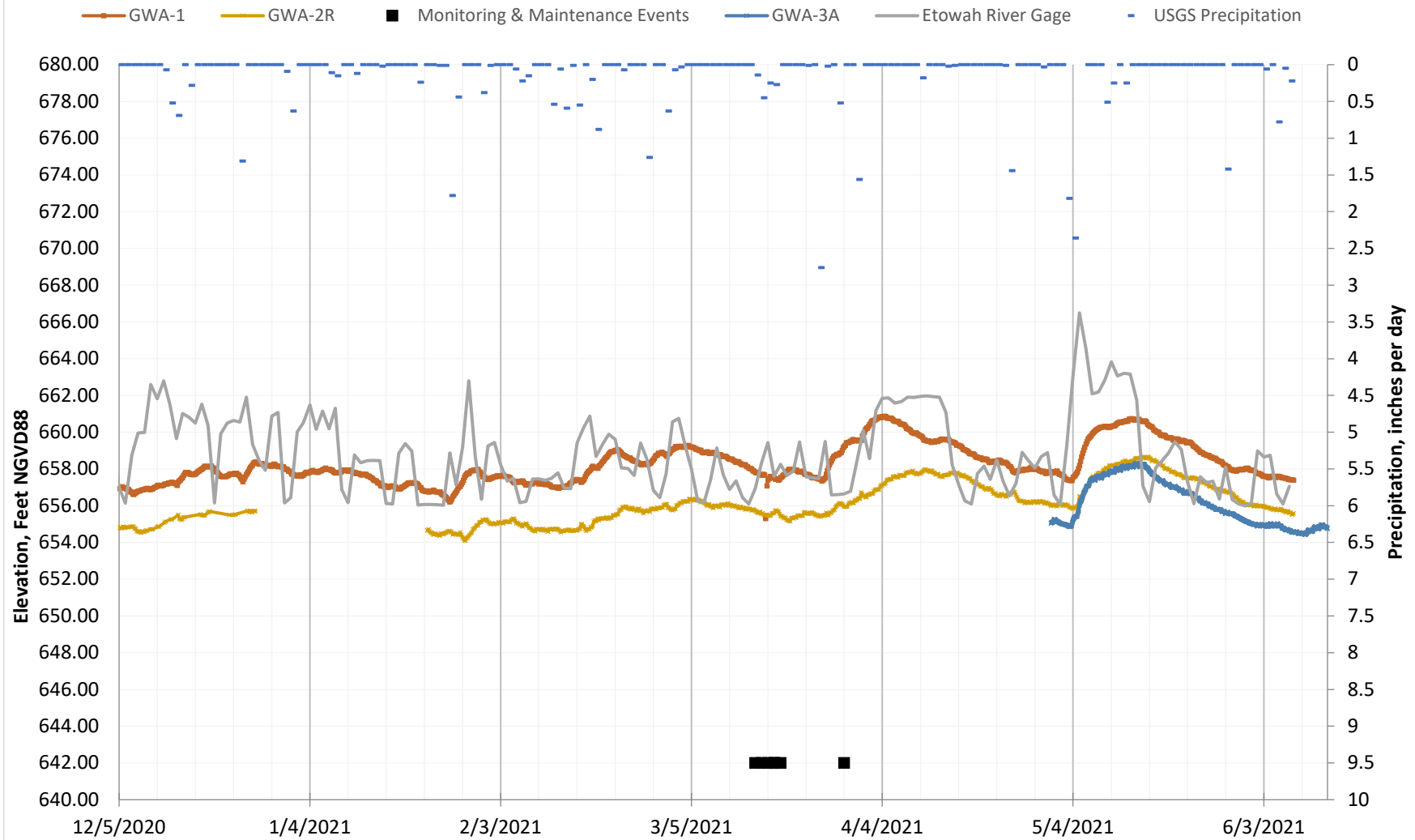


Figure 2B Cell 3 & 4 Transducer Level Monitoring

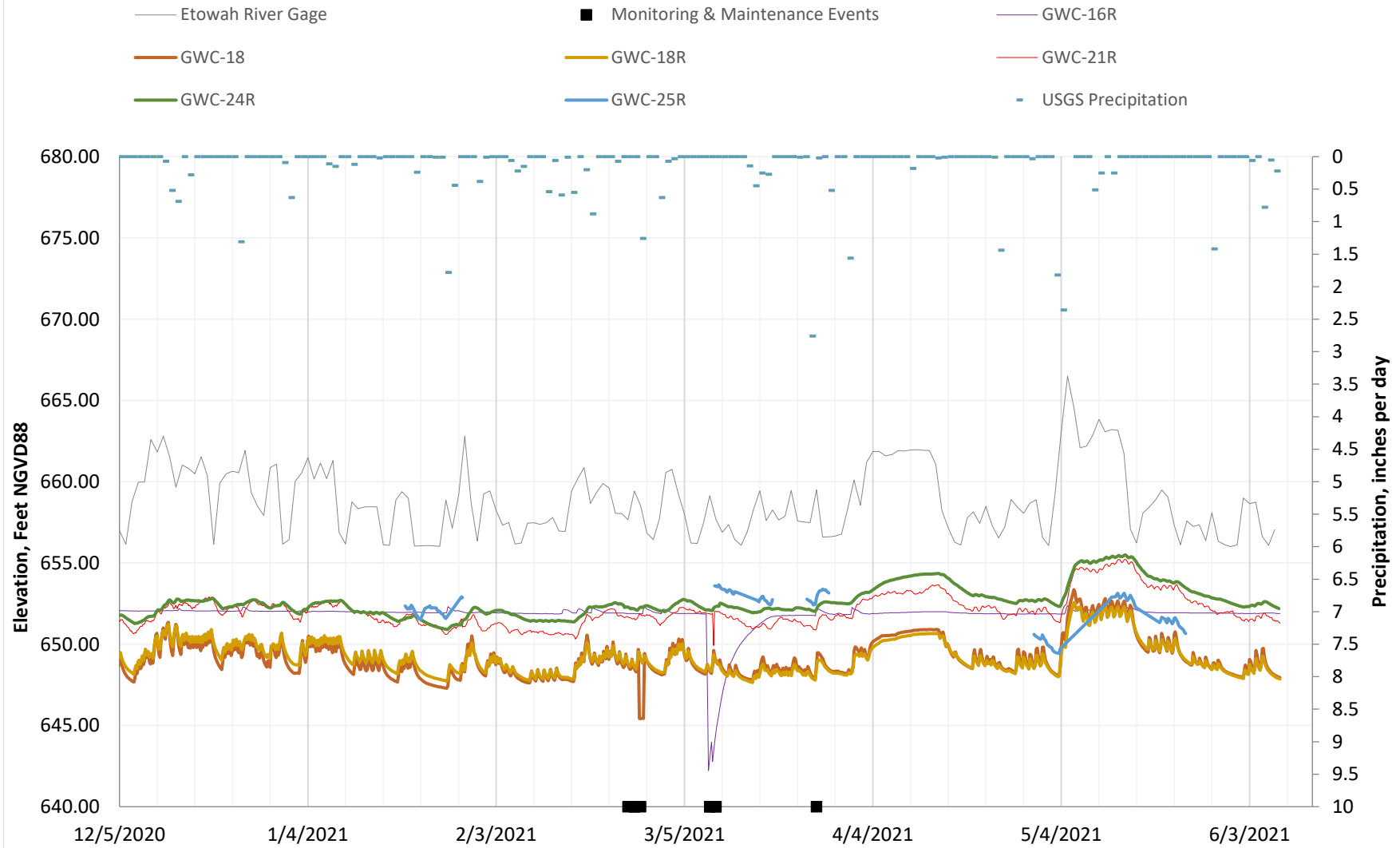


Figure 3A Cell 9 & 10 Transducer Level Monitoring

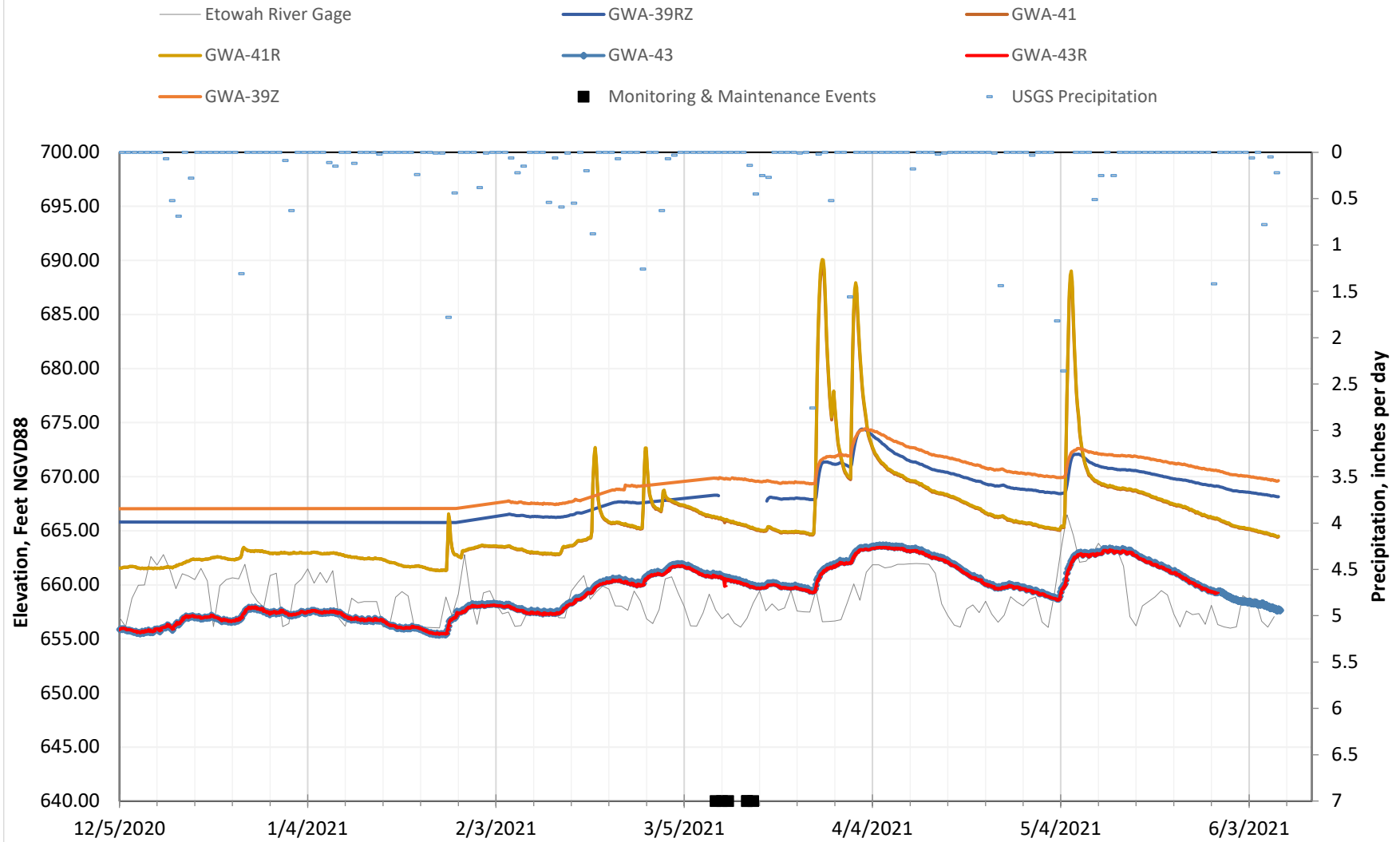
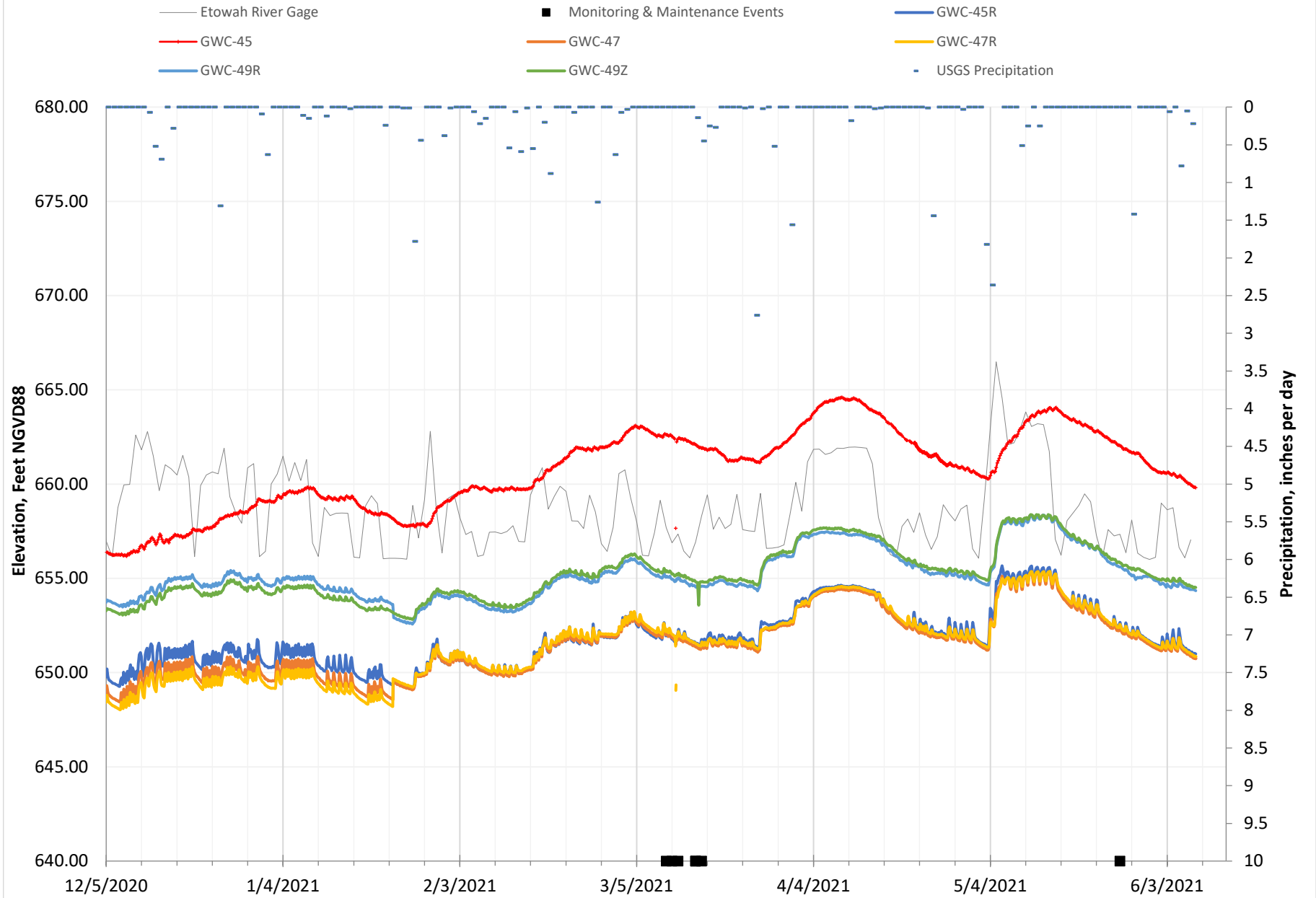


Figure 3B Cell 9 & 10 Transducer Level Monitoring



APPENDIX D

STATISTICAL RESULTS

GROUNDWATER STATS CONSULTING



August 24, 2021

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

Re: Plant Bowen Landfill Cells 1 & 2 - Bedrock and Overburden Wells
March 2021 Sample Event - Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the March 2021 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, and GWA-50R
- **Downgradient wells:** GWC-6RZ, GWC-8RR, GWC-10R, GWC-11R, GWC-13RZ, and GWC-15R

Overburden Wells:

- **Upgradient wells:** GWA-3A and GWA-50
- **Downgradient wells:** GWC-5, GWC-6, GWC-7Z, GWC-8Z, GWC-9, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14Z, and GWC-15Z

Note that well GWA-3 has been replaced with GWA-3A, which had its first sampling event in March 2021. As requested, data from well GWA-3 have been combined with replacement well GWA-3A.

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 Appendix I:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium and zinc

Note that the terms “parameters” and “constituents” are interchangeable throughout this report. When there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of both Overburden and Bedrock well/constituent pairs with 100% non-detects 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 in background data sets, a substitution of the most recent reporting limit is used for all non-detects. Note that for calculation of intrawell prediction limits, substitution of the most recent reporting limit is performed separately for each well/parameter pair. In some cases, the reporting limit provided by the laboratory contains varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case. A single reporting limit substitution is used across all wells in the time series plots for a given parameter since the wells are plotted as a group.

For cadmium and cobalt, reporting limits of 0.001 mg/L and 0.01 mg/L, respectively, were substituted to be consistent with previous analyses. Values were assessed for outliers in the previous analysis and no changes to outliers occurred in this report. 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 were provided during the previous screenings 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 non-detects, 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% non-detects.
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier 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% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Two-Step Statistical Analysis

Intrawell statistical methods, combined with 1-of-2 or 1-of-3 resample plans, may be used as a conservative first step for identifying potential facility impacts in downgradient wells.

Intrawell methods use background data for individual wells and may be overly sensitive to natural variation. In particular for nonparametric limits with small background sample sizes, the probability of a false positive is much higher than the desired annual sitewide rate of 10%. Therefore, a large number of exceedances may occur as a result of natural variation rather than facility impacts. A second step can be used to further evaluate those exceedances and reduce the overall number of SSIs that result from natural variation. In instances where intrawell statistical methods identify an apparent SSI, a second step of interwell statistical evaluation may be used to determine whether the measurement exceeds the sitewide background limit based on pooled upgradient well data. This is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" (USEPA Unified Guidance (2009), Chapter 7, Section 7.5). For the detection monitoring program, if the result does not exceed sitewide (interwell) background, an SSI is not declared.

When the result exceeds the sitewide (interwell) background, the 1-of-2 resample plan allows for collection of an independent resample to confirm or disconfirm the initial finding. The 1-of-3 plan allows collection of up to two samples. A statistically significant increase is not declared unless all resamples also exceed the intrawell prediction limit (United State Environmental Protection Agency (USEPA) Unified Guidance, March 2009, Chapter 19). When the resamples confirm the initial exceedance, 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). When any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. In cases where intrawell and interwell exceedances are noted and no resamples are collected, the initial exceedance will be considered a confirmed statistically significant increase (SSI).

Trend tests, in addition to interwell prediction limits, are recommended for well/constituent pairs found to have an initial intrawell SSI. Trend analysis will provide for detection of long-term changes and potential facility impacts at a given well in cases where the concentrations at that well remain below the sitewide upgradient limits. Thus, the two-step approach has additional capability to detect long-term changes at downgradient wells compared to interwell methods alone. While a trend may be identified by visual inspection, a quantification of the trend and its significance is needed to identify whether concentrations are statistically significantly increasing, decreasing, or remaining stable over time. The absence of a statistically significant increasing trend indicates that an initial intrawell exceedance is short-term and may be the result of natural variation rather than facility impact to groundwater. If a facility impact has occurred, it will likely result in additional exceedances in future sampling events. When a statistically significant increasing trend is noted, additional data may be needed to demonstrate that there is

reasonable evidence that the initial intrawell statistical exceedance is a result of natural variation rather than a result of impact to groundwater quality downgradient of the facility.

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's 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 non-detects 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 non-detects. 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 was included in the background screening.

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-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 date 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 adjustments due to increasing trends, 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 for wells GWA-2 and GWC-14Z. Of these two values, only the high value in well GWA-2 was flagged because of its impact on statistical limits. This value is included in a separate table for Excluded Data - Appendix III. 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. Summary tables of all flagged values follow 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-3A, and sulfate in upgradient well GWA-3A 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-3A and sulfate in wells GWA-3A, GWC-5, and GWC-8Z.

Although sulfate in well GWC-15R showed an increase in the median concentration, the magnitude of the increase is minimal relative to concentrations in other wells. The background was, therefore, updated with newer data. The results of the Mann-Whitney test were submitted with the screening report.

Evaluation of Georgia EPD Appendix I Constituents – March 2021

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 for Overburden wells and a 1-of-2 resample plan for Bedrock 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% non-detects. During this analysis, the following reporting limit changes occurred:

- Beryllium: <0.003 mg/L to <0.0005 mg/L
- Cadmium: <0.0025 mg/L to <0.001 mg/L
- Chromium: <0.01 mg/L to <0.005 mg/L
- Copper: <0.025 mg/L to <0.005 mg/L
- Lead: <0.005 mg/L to <0.001 mg/L
- Mercury: <0.0005 mg/L to <0.0002 mg/L
- Nickel: <0.01 mg/L to <0.005 mg/L
- Selenium: <0.01 mg/L to <0.005 mg/L
- Silver: <0.01 mg/L to <0.005 mg/L

Additionally, the reporting limit for zinc in well GWA-3A changed from a previous reporting limit of <0.04 mg/L to the current reporting limit of <0.02 mg/L. These changes did not result in any exceedances.

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 exceedances were identified for Overburden wells; however, the following well/constituent pairs had reported non-detects for this event that were higher than the established prediction limits:

- Arsenic: GWC-7Z
- Nickel: GWC-7Z
- Zinc: GWA-50 (upgradient), GWC-9, and GWC-13

These were not identified as exceedances by the Sanitas software because the assumption is that the laboratory did not detect any concentrations above the Method Detection Limit (MDL) which is 0.00078 mg/L for arsenic, 0.00069 mg/L for nickel, and 0.0035 mg/L for zinc. When the laboratory reports a nondetect value, the PQL is used as the reporting limit but the non-detect actually represents no detections present above the MDL.

Similar non-detect values were not identified as exceedances despite being higher than the respective well/constituent pair prediction limit for the following Bedrock well/constituent pairs:

- Zinc: GWC-6RZ, GWC-13RZ, and GWC-15R

A prediction limit exceedance was noted for the following downgradient Bedrock well/constituent pair:

- Antimony: GWC-11R

The reported observation of 0.012 mg/L for antimony in well GWC-11R exceeded its intrawell prediction limit of 0.0044 mg/L. Following the two-step analysis procedure, an interwell prediction limit was then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedance (Figure F). The reported measurement of antimony in this well exceeded the interwell prediction limit of 0.0097 mg/L. Therefore, this well/constituent pairs would require further research to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source).

A statistical exceedance was noted for barium in upgradient Bedrock well GWA-4RZ. Exceedances in upgradient wells are an indication of natural changes in groundwater quality. Summaries of the Georgia EPD prediction limits follow this report.

When an exceedance occurs in a downgradient well (i.e. antimony at well GWC-11R), the exceedance is further evaluated using the Sen's Slope/Mann Kendall trend test, whether or not the exceedance is confirmed as an SSI by the follow-up interwell test. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site. No statistically significant trends for antimony were found. Based on the recommendation of previous screenings, a Sen's Slope/Mann-Kendall trend test was used in lieu of a prediction limit for barium in well GWC-13RZ and identified a

statistically significant increasing trend. That trend test, along with trend tests for upgradient wells, is included with the trend test results for prediction limit exceedances for Georgia EPD Appendix I parameters (Figure G).

Evaluation of Appendix III Parameters – March 2021

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. Results and a summary table are presented in Figure H. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. No exceedances were identified for any downgradient wells. The following exceedances were noted in upgradient wells:

- Calcium: GWA-3A
- Sulfate: GWA-3A
- TDS: GWA-3A

When exceedances occur upgradient of the facility, it is an indication of naturally changing groundwater quality and, therefore, no further testing is required. All concentrations will be re-evaluated during the next background update to determine whether earlier measurements require truncating. Note also that changes in the reporting limit occurred for upgradient well GWA-50 for TDS as it decreased from 25 mg/L to 10 mg/L. The summary table displays one half of the current reporting limit in the observation column for this well due to the nondetect simple substitution adjustment. Following the recommendation of the EPA Unified Guidance, the Sanitas software substitutes one half the reporting limit for selected wells when data sets contain <15% non-detects for a given constituent.

Additionally, a recent update to the Sanitas statistical software for the calculation of Kaplan-Meier nondetect adjustment for data sets containing between 15%-50% non-detects resulted in a slight change to the historical prediction limit for TDS in well GWA-5 of 124 mg/L to 123.3 mg/L. No exceedances occurred as a result of these changes.

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 2021. Results and a summary table are presented in Figure I. Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to <0.04 mg/L) and for fluoride (<0.3 mg/L to <0.1 mg/L), which resulted in slight changes to the interwell prediction limits. 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 identified for the following well/constituent pairs:

- Chloride: GWC-13RZ and GWC-14Z
- pH (upper limit): GWC-9 and GWC-8RR

Data from downgradient well/constituent pairs found to exceed their respective prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents (Figure J). A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Chloride: GWC-14Z

Decreasing:

- pH: GWA-3A (upgradient)

Resample Reports – May 2021

Of the initial prediction limit exceedances noted, resamples were collected in May 2021 for antimony and pH in well GWC-11R. An intrawell prediction limit was constructed to evaluate the resample using background data as discussed previously for antimony (Figure K). No exceedance was identified for antimony in well GWC-11R; thus, the initial exceedance was not confirmed and no further action is necessary.

When an interwell prediction limit was constructed using pooled upgradient well data through May 2021 to evaluate pH in well GWC-11R, no exceedance was identified (Figure L). Therefore, the initial exceedance was not confirmed and no further action is necessary.

Summary

As a result of the Two-Step Approach, the following downgradient initial prediction limit exceedances were identified:

Bedrock Appendix I

- Antimony: GWC-11R

Appendix III Interwell

- Chloride: GWC-13RZ and GWC-14Z
- pH: GWC-8RR and GWC-9

After resampling in May 2021 for antimony and pH in well GWC-11R, no statistical exceedances were identified; therefore, the initial exceedances were not confirmed.

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
Project Manager



Kristina L. Rayner
Groundwater Statistician

Date Ranges

Date: 4/30/2021 3:51 PM

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

100% Non-Detects: Bedrock Appendix I

Analysis Run 4/30/2021 10:56 AM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Antimony (mg/L)

GWA-2

Arsenic (mg/L)

GWA-2, GWA-50R, GWC-10R

Beryllium (mg/L)

GWA-2, GWA-2R, GWA-4RZ, GWC-10R, GWC-11R, GWC-13RZ, GWC-15R

Cadmium (mg/L)

GWA-2, GWA-2R, GWA-4RZ, GWA-50R, GWC-13RZ, GWC-6RZ, GWC-8RR

Chromium (mg/L)

GWA-4RZ

Cobalt (mg/L)

GWC-10R, GWC-6RZ

Mercury (mg/L)

GWA-1, GWA-2R, GWA-4RZ, GWA-50R, GWC-10R, GWC-11R, GWC-6RZ

Nickel (mg/L)

GWC-6RZ

Selenium (mg/L)

GWA-1, GWA-4RZ, GWA-50R, GWC-10R, GWC-11R, 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, GWC-15R, GWC-6RZ, GWC-8RR

Vanadium (mg/L)

GWC-10R, GWC-6RZ

100% Non-Detects: Overburden Appendix I

Analysis Run 4/30/2021 11:25 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Antimony (mg/L)

GWC-10, GWC-12, GWC-8Z

Arsenic (mg/L)

GWA-50

Beryllium (mg/L)

GWA-50, GWC-12, GWC-15Z, GWC-7Z, GWA-3A

Cadmium (mg/L)

GWC-10, GWC-11, GWC-13, GWC-15Z, GWC-9, GWA-3A

Cobalt (mg/L)

GWA-50

Lead (mg/L)

GWC-12, GWA-3A

Mercury (mg/L)

GWC-10, GWC-14Z, GWC-7Z, GWC-8Z, GWC-9, GWA-3A

Selenium (mg/L)

GWA-50, GWC-10, GWC-11, GWC-12, GWC-15Z, GWC-6, GWC-7Z, GWA-3A

Silver (mg/L)

GWC-10, GWC-11, GWC-13, GWC-14Z, GWC-15Z, GWC-5, GWC-6, GWC-7Z, GWC-8Z, GWC-9, GWA-3A

Thallium (mg/L)

GWA-50, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14Z, GWC-9, GWA-3A

Vanadium (mg/L)

GWA-50, GWC-7Z

Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-3A	0.0068	n/a	3/29/2021	0.003ND	No	32	n/a	n/a	68.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-50	0.003	n/a	3/17/2021	0.003ND	No	26	n/a	n/a	92.31	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.003	n/a	3/19/2021	0.00032J	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-13	0.003	n/a	3/18/2021	0.00078J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-14Z	0.005	n/a	3/18/2021	0.003ND	No	32	n/a	n/a	87.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-15Z	0.0053	n/a	3/18/2021	0.003ND	No	31	n/a	n/a	83.87	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.003	n/a	3/17/2021	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.0035	n/a	3/17/2021	0.003ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-7Z	0.003	n/a	3/17/2021	0.00099J	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-9	0.003	n/a	3/18/2021	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-3A	0.005	n/a	3/29/2021	0.001J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-10	0.0079	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	90.32	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.012	n/a	3/19/2021	0.0052	No	31	n/a	n/a	29.03	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-13	0.0096	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14Z	0.0079	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	87.1	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-15Z	0.0077	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.005	n/a	3/17/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.005	n/a	3/17/2021	0.0013J	No	31	n/a	n/a	93.55	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7Z	0.003663	n/a	3/17/2021	0.005ND	No	11	0.002522	0.0005101	18.18	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Arsenic (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.00082J	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0086	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	93.55	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-3A	0.007921	n/a	3/29/2021	0.0073	No	23	0.005815	0.001177	4.348	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWA-50	0.01571	n/a	3/17/2021	0.0074	No	25	0.009848	0.003336	4	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-10	0.02966	n/a	3/18/2021	0.025	No	29	-4.024	0.2943	0	None	ln(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-11	0.036	n/a	3/19/2021	0.011	No	31	n/a	n/a	3.226	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-12	0.07	n/a	3/19/2021	0.024	No	28	n/a	n/a	0	n/a	n/a	0.0002317	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-13	0.04922	n/a	3/18/2021	0.023	No	30	0.02845	0.01216	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-14Z	0.04432	n/a	3/18/2021	0.014	No	28	0.1367	0.04275	7.143	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-15Z	0.01987	n/a	3/18/2021	0.012	No	31	0.0106	0.00545	3.226	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-5	0.02443	n/a	3/17/2021	0.014	No	31	0.01764	0.003992	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.02458	n/a	3/17/2021	0.0075	No	29	0.1134	0.02526	3.448	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-7Z	0.03969	n/a	3/17/2021	0.022	No	11	0.0267	0.005812	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-8Z	0.05253	n/a	3/18/2021	0.018	No	15	0.1761	0.02662	0	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-9	0.04876	n/a	3/18/2021	0.041	No	28	0.03862	0.005872	0	None	No	0.0002993	Param Intra 1 of 3
Beryllium (mg/L)	GWC-10	0.003	n/a	3/18/2021	0.0001J	No	14	n/a	n/a	71.43	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-11	0.0005	n/a	3/19/2021	0.0005ND	No	14	n/a	n/a	100	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-13	0.003	n/a	3/18/2021	0.00007J	No	14	n/a	n/a	57.14	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14Z	0.003	n/a	3/18/2021	0.00012J	No	14	n/a	n/a	78.57	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-5	0.003	n/a	3/17/2021	0.00061	No	14	n/a	n/a	14.29	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-6	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	78.57	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8Z	0.003	n/a	3/18/2021	0.000085J	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.003	n/a	3/18/2021	0.00016J	No	14	n/a	n/a	35.71	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-50	0.001	n/a	3/17/2021	0.00012J	No	26	n/a	n/a	96.15	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-12	0.001	n/a	3/19/2021	0.00027J	No	32	n/a	n/a	68.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14Z	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-5	0.00104	n/a	3/17/2021	0.00013J	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-6	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-7Z	0.001	n/a	3/17/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8Z	0.001	n/a	3/18/2021	0.001ND	No	15	n/a	n/a	86.67	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3A	0.027	n/a	3/29/2021	0.00062J	No	29	n/a	n/a	86.21	n/a	n/a	0.0002074	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-50	0.005	n/a	3/17/2021	0.005ND	No	26	n/a	n/a	88.46	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.042	n/a	3/18/2021	0.00068J	No	32	n/a	n/a	46.88	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-11	0.025	n/a	3/19/2021	0.0073	No	32	n/a	n/a	28.13	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.039	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	71.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.02017	n/a	3/18/2021	0.0058	No	32	-4.769	0.511	0	None	ln(x)	0.0002993	Param Intra 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-14Z	0.01856	n/a	3/18/2021	0.0023J	No	31	0.07182	0.03787	25.81	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3
Chromium (mg/L)	GWC-15Z	0.027	n/a	3/18/2021	0.00078J	No	26	n/a	n/a	57.69	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-5	0.032	n/a	3/17/2021	0.00069J	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	3/17/2021	0.0027J	No	31	n/a	n/a	32.26	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-7Z	0.005	n/a	3/17/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	0.0015J	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	3/18/2021	0.005ND	No	30	n/a	n/a	80	n/a	n/a	0.0001831	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3A	0.01	n/a	3/29/2021	0.01ND	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	3/18/2021	0.001J	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	3/19/2021	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	3/19/2021	0.0029J	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	3/18/2021	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-14Z	0.011	n/a	3/18/2021	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-15Z	0.01	n/a	3/18/2021	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	3/17/2021	0.01ND	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	3/17/2021	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	0.01	n/a	3/17/2021	0.00045J	No	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	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	3/18/2021	0.01ND	No	31	n/a	n/a	70.97	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-3A	0.0509	n/a	3/29/2021	0.005ND	No	27	0.03618	0.008473	0	None	No	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWA-50	0.01497	n/a	3/17/2021	0.0019J	No	21	0.1825	0.03515	19.05	Kaplan-Meier	x^(1/3)	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-10	0.006	n/a	3/18/2021	0.005ND	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	0.013	n/a	3/19/2021	0.005ND	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	0.0067	n/a	3/19/2021	0.005ND	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	0.005	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14Z	0.0056	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15Z	0.021	n/a	3/18/2021	0.005ND	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	3/17/2021	0.019	No	26	0.02693	0.01643	0	None	No	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-6	0.0069	n/a	3/17/2021	0.005ND	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	0.005	n/a	3/17/2021	0.005ND	No	5	n/a	n/a	60	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.01	n/a	3/18/2021	0.005ND	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	0.001	n/a	3/17/2021	0.001ND	No	26	n/a	n/a	92.31	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-10	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-11	0.001	n/a	3/19/2021	0.001ND	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	3/18/2021	0.00024J	No	32	n/a	n/a	84.38	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-14Z	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-15Z	0.005	n/a	3/18/2021	0.00004J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-5	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-6	0.005	n/a	3/17/2021	0.000074J	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	3/17/2021	0.000049J	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	3/18/2021	0.00011J	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	3/18/2021	0.0001J	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	0.0002	n/a	3/17/2021	0.0002ND	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	0.0002	n/a	3/19/2021	0.0002ND	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	0.0002	n/a	3/19/2021	0.0002ND	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	0.0002	n/a	3/18/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15Z	0.0002	n/a	3/18/2021	0.0002ND	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	0.0002	n/a	3/17/2021	0.0002ND	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	0.0002	n/a	3/17/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-3A	0.05886	n/a	3/29/2021	0.005ND	No	26	-3.665	0.4764	0	None	ln(x)	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWA-50	0.005	n/a	3/17/2021	0.005ND	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	3/18/2021	0.00094J	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	0.0087	n/a	3/19/2021	0.005ND	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	3/19/2021	0.0022J	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	3/18/2021	0.005ND	No	27	n/a	n/a	74.07	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWC-14Z	0.011	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	62.96	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15Z	0.019	n/a	3/18/2021	0.005ND	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	3/17/2021	0.0077	No	27	0.02419	0.01273	0	None	No	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.022	n/a	3/17/2021	0.005ND	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	3/17/2021	0.005ND	No	5	0.001133	0.00004714	40	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.005ND	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	3/18/2021	0.001J	No	25	n/a	n/a	40	n/a	n/a	0.0003046	NP Intra (normality) 1 of 3
Selenium (mg/L)	GWC-13	0.01	n/a	3/18/2021	0.0021J	No	32	n/a	n/a	62.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-14Z	0.01	n/a	3/18/2021	0.0016J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.01	n/a	3/17/2021	0.0019J	No	31	n/a	n/a	90.32	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	0.0089	No	15	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-9	0.005	n/a	3/18/2021	0.005ND	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	3/17/2021	0.00044J	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	0.005	n/a	3/19/2021	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-15Z	0.001	n/a	3/18/2021	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-5	0.001	n/a	3/17/2021	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	3/17/2021	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-7Z	0.001	n/a	3/17/2021	0.00015J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8Z	0.001	n/a	3/18/2021	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-3A	0.01	n/a	3/29/2021	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	3/18/2021	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	3/19/2021	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	3/19/2021	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	3/18/2021	0.01ND	No	26	n/a	n/a	53.85	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14Z	0.012	n/a	3/18/2021	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-15Z	0.0165	n/a	3/18/2021	0.01ND	No	26	0.006028	0.005988	34.62	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Vanadium (mg/L)	GWC-5	0.01	n/a	3/17/2021	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	3/17/2021	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	3/18/2021	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	3/18/2021	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-3A	0.1191	n/a	3/29/2021	0.02ND	No	27	0.2529	0.05307	3.704	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWA-50	0.009177	n/a	3/17/2021	0.02ND	No	20	-5.563	0.4751	25	Kaplan-Meier	ln(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-10	0.03667	n/a	3/18/2021	0.02ND	No	27	0.09035	0.0582	29.63	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-11	0.02	n/a	3/19/2021	0.02ND	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	3/19/2021	0.0076J	No	27	-4.541	0.9693	14.81	None	ln(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-13	0.01765	n/a	3/18/2021	0.02ND	No	23	0.008589	0.005062	26.09	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-14Z	0.02	n/a	3/18/2021	0.02ND	No	22	n/a	n/a	27.27	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-15Z	0.025	n/a	3/18/2021	0.02ND	No	23	n/a	n/a	43.48	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-5	0.1443	n/a	3/17/2021	0.027	No	27	0.07538	0.03964	3.704	None	No	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-6	0.021	n/a	3/17/2021	0.02ND	No	22	n/a	n/a	36.36	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-7Z	0.02	n/a	3/17/2021	0.02ND	No	5	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8Z	0.02	n/a	3/18/2021	0.02ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-9	0.01702	n/a	3/18/2021	0.02ND	No	23	0.08208	0.02704	17.39	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3

Appendix I Bedrock Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/19/2021	0.012	Yes	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/16/2021	0.042	Yes	11	0.02799	0.002333	0	None	No	0.0005486	Param Intra 1 of 2

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-1	0.0097	n/a	3/16/2021	0.0014J	No	30	n/a	n/a	50	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-2R	0.0081	n/a	3/16/2021	0.005	No	30	n/a	n/a	56.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4RZ	0.003	n/a	3/16/2021	0.00082J	No	11	n/a	n/a	63.64	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-50R	0.003	n/a	3/17/2021	0.003ND	No	26	n/a	n/a	100	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10R	0.003	n/a	3/18/2021	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/19/2021	0.012	Yes	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13RZ	0.00447	n/a	3/19/2021	0.0011J	No	26	n/a	n/a	61.54	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-15R	0.0106	n/a	3/18/2021	0.00045J	No	32	n/a	n/a	53.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6RZ	0.003	n/a	3/17/2021	0.003ND	No	14	n/a	n/a	85.71	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8RR	0.003	n/a	3/17/2021	0.003ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-1	0.005	n/a	3/16/2021	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2R	0.0056	n/a	3/16/2021	0.005ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4RZ	0.002431	n/a	3/16/2021	0.00098J	No	11	0.0969	0.01324	27.27	Kaplan-Meier	x^(1/3)	0.0005486	Param Intra 1 of 2
Arsenic (mg/L)	GWC-11R	0.0077	n/a	3/19/2021	0.0013J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-13RZ	0.0066	n/a	3/19/2021	0.00084J	No	30	n/a	n/a	66.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6RZ	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.04054	n/a	3/16/2021	0.018	No	31	0.1451	0.02538	0	None	sqrt(x)	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2	0.04842	n/a	3/17/2021	0.025	No	30	0.02121	0.01224	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2R	0.02539	n/a	3/16/2021	0.013	No	30	0.2153	0.03537	0	None	x^(1/3)	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/16/2021	0.042	Yes	11	0.02799	0.002333	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-50R	0.02185	n/a	3/17/2021	0.012	No	23	0.01499	0.002959	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-10R	0.03543	n/a	3/18/2021	0.027	No	32	0.02388	0.005231	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-11R	0.02192	n/a	3/19/2021	0.021	No	32	0.01259	0.004227	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-15R	0.03156	n/a	3/18/2021	0.02	No	31	0.0244	0.003233	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-6RZ	0.01917	n/a	3/17/2021	0.0072	No	15	0.009456	0.003803	6.667	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-8RR	0.024	n/a	3/17/2021	0.014	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-1	0.0005	n/a	3/16/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-50R	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-6RZ	0.0005	n/a	3/17/2021	0.0005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-8RR	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-1	0.001	n/a	3/16/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-11R	0.001	n/a	3/19/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-15R	0.001	n/a	3/18/2021	0.001ND	No	31	n/a	n/a	87.1	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.038	n/a	3/16/2021	0.005ND	No	30	n/a	n/a	70	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.009	n/a	3/17/2021	0.005ND	No	29	n/a	n/a	65.52	n/a	n/a	0.002172	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2R	0.012	n/a	3/16/2021	0.005ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-50R	0.005	n/a	3/17/2021	0.005ND	No	26	n/a	n/a	61.54	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10R	0.01	n/a	3/18/2021	0.002J	No	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11R	0.02073	n/a	3/19/2021	0.0079	No	21	0.009791	0.004649	4.762	None	No	0.0005486	Param Intra 1 of 2
Chromium (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	31	n/a	n/a	74.19	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15R	0.014	n/a	3/18/2021	0.00089J	No	31	n/a	n/a	64.52	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6RZ	0.01	n/a	3/17/2021	0.0021J	No	15	n/a	n/a	33.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.00079J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/16/2021	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.013	n/a	3/17/2021	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.01ND	No	31	n/a	n/a	100	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4RZ	0.02221	n/a	3/16/2021	0.015	No	11	0.0078	0.005078	9.091	None	No	0.0005486	Param Intra 1 of 2
Cobalt (mg/L)	GWA-50R	0.01	n/a	3/17/2021	0.01ND	No	26	n/a	n/a	76.92	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-11R	0.01	n/a	3/19/2021	0.01ND	No	31	n/a	n/a	93.55	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-13RZ	0.01	n/a	3/19/2021	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.01ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.01ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-1	0.0094	n/a	3/16/2021	0.005ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWA-2	0.013	n/a	3/17/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2R	0.013	n/a	3/16/2021	0.005ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-4RZ	0.005	n/a	3/16/2021	0.005ND	No	4	n/a	n/a	75	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-50R	0.01777	n/a	3/17/2021	0.0024J	No	10	0.005944	0.004014	0	None	No	0.0005486	Param Intra 1 of 2
Copper (mg/L)	GWC-10R	0.007	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-11R	0.025	n/a	3/19/2021	0.0018J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-13RZ	0.013	n/a	3/19/2021	0.005ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-15R	0.02	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6RZ	0.005	n/a	3/17/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-1	0.005	n/a	3/16/2021	0.000052J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2R	0.005	n/a	3/16/2021	0.00007J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-4RZ	0.001	n/a	3/16/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-50R	0.0012	n/a	3/17/2021	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-11R	0.005	n/a	3/19/2021	0.00018J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.000074J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.00036J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6RZ	0.001	n/a	3/17/2021	0.001ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8RR	0.001	n/a	3/17/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	3/17/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-13RZ	0.0002	n/a	3/19/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-15R	0.0002	n/a	3/18/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-8RR	0.0002	n/a	3/17/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.024	n/a	3/16/2021	0.005ND	No	26	n/a	n/a	73.08	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.02	n/a	3/17/2021	0.005ND	No	25	n/a	n/a	68	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2R	0.0093	n/a	3/16/2021	0.005ND	No	26	n/a	n/a	84.62	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-4RZ	0.005	n/a	3/16/2021	0.005ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-50R	0.01209	n/a	3/17/2021	0.0012J	No	10	0.05305	0.01932	10	None	sqrt(x)	0.0005486	Param Intra 1 of 2
Nickel (mg/L)	GWC-10R	0.01	n/a	3/18/2021	0.0011J	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-11R	0.005	n/a	3/19/2021	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	25	n/a	n/a	80	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.00079J	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2	0.01	n/a	3/17/2021	0.0045J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.0021J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	87.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-6RZ	0.01	n/a	3/17/2021	0.0038J	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-50R	0.004299	n/a	3/17/2021	0.0026J	No	21	0.002202	0.0008907	38.1	Kaplan-Meier	No	0.0005486	Param Intra 1 of 2
Silver (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2R	0.001	n/a	3/16/2021	0.001ND	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-50R	0.001	n/a	3/17/2021	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-11R	0.001	n/a	3/19/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-13RZ	0.001	n/a	3/19/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-1	0.01	n/a	3/16/2021	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	3/17/2021	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-4RZ	0.01	n/a	3/16/2021	0.01ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-50R	0.01	n/a	3/17/2021	0.01ND	No	21	n/a	n/a	66.67	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11R	0.01	n/a	3/19/2021	0.01ND	No	26	n/a	n/a	46.15	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-13RZ	0.011	n/a	3/19/2021	0.01ND	No	24	n/a	n/a	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.01ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWA-1	0.01974	n/a	3/16/2021	0.0091J	No	24	-5.343	0.6168	29.17	Kaplan-Meier	ln(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2	0.027	n/a	3/17/2021	0.02ND	No	25	n/a	n/a	48	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-2R	0.02	n/a	3/16/2021	0.02ND	No	26	n/a	n/a	46.15	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-4RZ	0.02	n/a	3/16/2021	0.02ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-50R	0.02265	n/a	3/17/2021	0.02ND	No	17	0.009815	0.005207	23.53	Kaplan-Meier	No	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-10R	0.02	n/a	3/18/2021	0.02ND	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-11R	0.02	n/a	3/19/2021	0.02ND	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13RZ	0.01293	n/a	3/19/2021	0.02ND	No	23	-5.434	0.4686	30.43	Kaplan-Meier	ln(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-15R	0.01295	n/a	3/18/2021	0.02ND	No	25	0.0676	0.02025	20	Kaplan-Meier	sqrt(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-6RZ	0.0115	n/a	3/17/2021	0.02ND	No	10	0.1406	0.02888	40	Kaplan-Meier	x^(1/3)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-8RR	0.02	n/a	3/17/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2

Appendix I Bedrock Interwell Prediction Limits - All Results (All Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0097	n/a	3/19/2021	0.012	Yes	154	n/a	n/a	70.13	n/a	n/a	0.00008349	NP Inter (NDs) 1 of 2

Appendix I Bedrock Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.0009075	-326	-191	Yes	36	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4RZ (bg)	0.004024	81	58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006742	-177	-131	Yes	28	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-13RZ	0.006455	365	184	Yes	35	0	n/a	n/a	0.01	NP

Appendix I Bedrock Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:15 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	GWA-1 (bg)	0	-22	-184	No	35	45.71	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-2R (bg)	0	72	184	No	35	48.57	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-4RZ (bg)	0	-16	-58	No	16	50	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-50R (bg)	0	-28	-152	No	31	96.77	n/a	n/a	0.01	NP
Antimony (mg/L)	GWC-11R	0	14	184	No	35	74.29	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-1 (bg)	-0.0009075	-326	-191	Yes	36	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2 (bg)	0.0004547	63	184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2R (bg)	0.0002135	63	184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4RZ (bg)	0.004024	81	58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006742	-177	-131	Yes	28	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-13RZ	0.006455	365	184	Yes	35	0	n/a	n/a	0.01	NP

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-3A	2.13	n/a	3/29/2021	19	Yes	13	1.301	0.3004	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-3A	1.359	n/a	3/29/2021	5.4	Yes	13	0.7044	0.2369	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-3A	58.82	n/a	3/29/2021	76	Yes	13	26.41	11.74	38.46	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-1	35.77	n/a	3/16/2021	34.6	No	13	30.12	2.045	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2	76.67	n/a	3/17/2021	40.4	No	13	21.87	19.84	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2R	68.55	n/a	3/16/2021	26.7	No	13	4.874	1.233	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-3A	2.13	n/a	3/29/2021	19	Yes	13	1.301	0.3004	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-4RZ	57.67	n/a	3/16/2021	53.7	No	13	48.45	3.34	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50	4.676	n/a	3/17/2021	1.4	No	13	2.38	0.8311	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50R	14.16	n/a	3/17/2021	5.4	No	13	5.032	3.306	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	46.26	n/a	3/18/2021	27	No	13	976.2	421.5	0	None	x^2	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10R	48.64	n/a	3/18/2021	43.8	No	13	40.21	3.054	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11	30.68	n/a	3/19/2021	19.7	No	13	17.71	4.696	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11R	36.51	n/a	3/19/2021	31.3	No	13	25.31	4.056	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-12	9.786	n/a	3/19/2021	7.8	No	13	8.042	0.6313	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13	77.34	n/a	3/18/2021	30.8	No	13	48.64	10.39	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13RZ	66.28	n/a	3/19/2021	43	No	13	43.21	8.352	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-14Z	46.16	n/a	3/18/2021	13	No	13	23.01	8.383	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-15R	62.5	n/a	3/18/2021	42.1	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWC-15Z	30.61	n/a	3/18/2021	27.4	No	13	12616	5821	0	None	x^3	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-5	8.151	n/a	3/17/2021	3	No	13	1.854	0.3624	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	16.11	n/a	3/17/2021	14.1	No	12	13.73	0.8433	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6RZ	15.76	n/a	3/17/2021	9.5	No	12	11.35	1.561	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-7Z	27.62	n/a	3/17/2021	23.9	No	13	23.25	1.58	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8RR	25.71	n/a	3/17/2021	22.4	No	13	22.17	1.281	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8Z	27.75	n/a	3/18/2021	9.6	No	12	21.09	2.357	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	33.72	n/a	3/18/2021	1.9	No	13	10.16	8.529	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-1	2.705	n/a	3/16/2021	0.99J	No	13	1.707	0.3615	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2	171.3	n/a	3/17/2021	90.7	No	13	45.47	45.57	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2R	103.2	n/a	3/16/2021	3.3	No	13	1.076	1.289	0	None	ln(x)	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-3A	1.359	n/a	3/29/2021	5.4	Yes	13	0.7044	0.2369	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-4RZ	29.81	n/a	3/16/2021	22.1	No	14	21.19	3.193	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50	1.082	n/a	3/17/2021	0.5ND	No	13	0.692	0.1413	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50R	1.77	n/a	3/17/2021	0.86J	No	13	1.035	0.2659	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10	2.331	n/a	3/18/2021	1.2	No	13	1.414	0.332	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10R	2.202	n/a	3/18/2021	0.96J	No	13	1.539	0.2398	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11	3.864	n/a	3/19/2021	1.9	No	13	2.667	0.4333	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11R	4.815	n/a	3/19/2021	1.5	No	13	2.798	0.7303	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-12	0.8022	n/a	3/19/2021	0.5ND	No	13	0.6222	0.09903	23.08	Kaplan-Meier	sqrt(x)	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13	205.7	n/a	3/18/2021	19.3	No	13	84.47	43.88	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13RZ	108.2	n/a	3/19/2021	74.2	No	13	53.11	19.95	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-14Z	8.012	n/a	3/18/2021	7.8	No	12	3.192	1.707	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15R	14.72	n/a	3/18/2021	10.4	No	13	9.142	2.02	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15Z	14.01	n/a	3/18/2021	0.76J	No	13	4.438	3.464	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-5	2.23	n/a	3/17/2021	1.1	No	13	1.506	0.2621	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6	4.05	n/a	3/17/2021	2.2	No	13	2.394	0.5998	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6RZ	3.575	n/a	3/17/2021	1.8	No	13	2.112	0.5298	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-7Z	2.373	n/a	3/17/2021	1.3	No	13	0.8731	0.5429	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8RR	2.043	n/a	3/17/2021	0.72J	No	13	1.043	0.3621	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8Z	4.386	n/a	3/18/2021	1.1	No	13	2.324	0.7467	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-9	4.885	n/a	3/18/2021	2.1	No	13	2.372	0.9101	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-1	192.9	n/a	3/16/2021	155	No	13	151.7	14.9	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2	370	n/a	3/17/2021	211	No	13	122.7	89.51	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2R	250.2	n/a	3/16/2021	102	No	13	120	47.12	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-3A	58.82	n/a	3/29/2021	76	Yes	13	26.41	11.74	38.46	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-4RZ	444.4	n/a	3/16/2021	196	No	13	262.5	65.86	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50	53.58	n/a	3/17/2021	5ND	No	13	21.19	11.73	30.77	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50R	107.3	n/a	3/17/2021	31	No	13	37	25.45	23.08	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-10	203.4	n/a	3/18/2021	74	No	13	133.3	25.39	0	None	No	0.0004426	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWC-10R	224.9	n/a	3/18/2021	62	No	13	161	23.15	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11	157.3	n/a	3/19/2021	79	No	13	95.08	22.54	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11R	178.8	n/a	3/19/2021	135	No	13	128	18.4	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-12	114	n/a	3/19/2021	53	No	13	4.084	0.2771	0	None	x^(1/3)	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13	424.3	n/a	3/18/2021	82	No	13	239.6	66.87	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13RZ	380.1	n/a	3/19/2021	250	No	13	67659	27810	0	None	x^2	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-14Z	287.4	n/a	3/18/2021	57	No	13	123.6	59.29	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15R	247.9	n/a	3/18/2021	153	No	13	166.2	29.56	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15Z	233.3	n/a	3/18/2021	54	No	13	125.5	39.04	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-5	123.3	n/a	3/17/2021	15	No	13	44.18	28.65	15.38	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6	169.5	n/a	3/17/2021	47	No	13	9.238	1.368	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6RZ	163.6	n/a	3/17/2021	43	No	13	82	29.54	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-7Z	174.7	n/a	3/17/2021	112	No	13	125.7	17.74	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8RR	132.3	n/a	3/17/2021	113	No	13	108.6	8.559	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8Z	178.6	n/a	3/18/2021	48	No	13	121.7	20.62	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-9	187.9	n/a	3/18/2021	5ND	No	13	64.54	44.65	0	None	No	0.0004426	Param Intra 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWC-13RZ	3.7	n/a	3/19/2021	7.4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14Z	3.7	n/a	3/18/2021	4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	8.04	5.07	3/17/2021	8.08	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	8.04	5.07	3/18/2021	4.78	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-10	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-10R	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11R	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.04	n/a	3/18/2021	0.0091J	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13RZ	0.04	n/a	3/19/2021	0.014J	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-14Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15R	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6RZ	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-7Z	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8RR	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Chloride (mg/L)	GWC-10	3.7	n/a	3/18/2021	2.1	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-10R	3.7	n/a	3/18/2021	2.5	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	3.7	n/a	3/19/2021	1.1	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11R	3.7	n/a	3/19/2021	1.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	3.7	n/a	3/19/2021	0.79J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	3.7	n/a	3/18/2021	3.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13RZ	3.7	n/a	3/19/2021	7.4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14Z	3.7	n/a	3/18/2021	4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15R	3.7	n/a	3/18/2021	1.7	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15Z	3.7	n/a	3/18/2021	0.67J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	3.7	n/a	3/17/2021	0.69J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	3.7	n/a	3/17/2021	1.2	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6RZ	3.7	n/a	3/17/2021	1.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-7Z	3.7	n/a	3/17/2021	0.79J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8RR	3.7	n/a	3/17/2021	0.78J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8Z	3.7	n/a	3/18/2021	1.6	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	3.7	n/a	3/18/2021	2.2	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-10	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-10R	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11R	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-12	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13RZ	0.3	n/a	3/19/2021	0.12	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-14Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15R	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6RZ	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-7Z	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8RR	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-9	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
pH (pH units)	GWC-10	8.04	5.07	3/18/2021	6.69	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-10R	8.04	5.07	3/18/2021	7.52	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11	8.04	5.07	3/19/2021	7.05	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11R	8.04	5.07	3/19/2021	7.64	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-12	8.04	5.07	3/19/2021	6.31	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-13	8.04	5.07	3/18/2021	7.3	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13RZ	8.04	5.07	3/19/2021	7.42	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-14Z	8.04	5.07	3/18/2021	6.04	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15R	8.04	5.07	3/18/2021	7.58	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15Z	8.04	5.07	3/18/2021	7.87	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-5	8.04	5.07	3/17/2021	5.85	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6	8.04	5.07	3/17/2021	7.57	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6RZ	8.04	5.07	3/17/2021	7.03	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-7Z	8.04	5.07	3/17/2021	7.52	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	8.04	5.07	3/17/2021	8.08	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8Z	8.04	5.07	3/18/2021	6.45	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	8.04	5.07	3/18/2021	4.78	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:51 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>
Chloride (mg/L)	GWC-14Z	0.354	62	58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-3A (bg)	-0.1197	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:51 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GWA-1 (bg)	-0.08241	-49	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	-0.2082	-48	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2R (bg)	-0.03791	-22	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4RZ (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-50 (bg)	-0.04771	-44	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-50R (bg)	-0.04795	-49	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-13RZ	0.4837	31	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-14Z	0.354	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	-0.01447	-33	-53	No	15	6.667	n/a	n/a	0.01	NP
pH (pH units)	GWA-1 (bg)	-0.0235	-43	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-2 (bg)	-0.06777	-30	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-2R (bg)	-0.04794	-36	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-4RZ (bg)	-0.01113	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-50 (bg)	-0.07579	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-50R (bg)	-0.1315	-44	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-8RR	-0.01236	-10	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-9	-0.1631	-41	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-3A (bg)	-0.1197	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix I Bedrock Intrawell Prediction Limits - Resample Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 6/22/2021, 11:35 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0044	n/a	5/26/2021	0.0037	No	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2

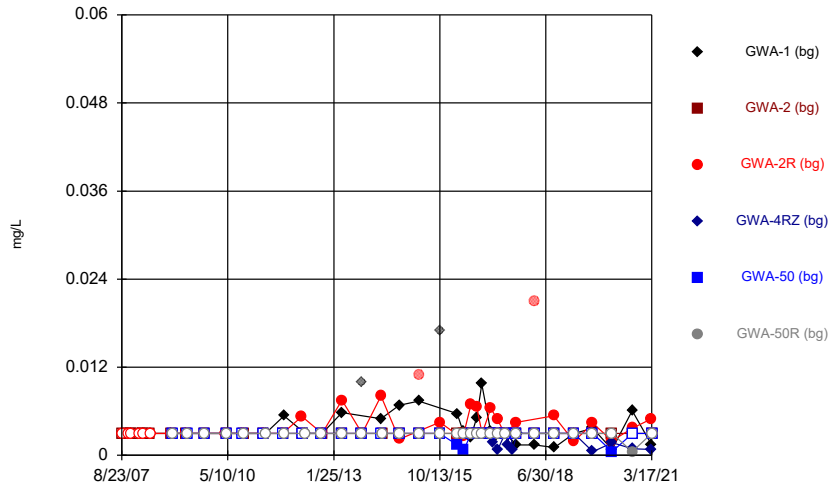
Appendix III Interwell Prediction Limits - Resample Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 6/22/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-11R	8.04	5.07	5/26/2021	7.55	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

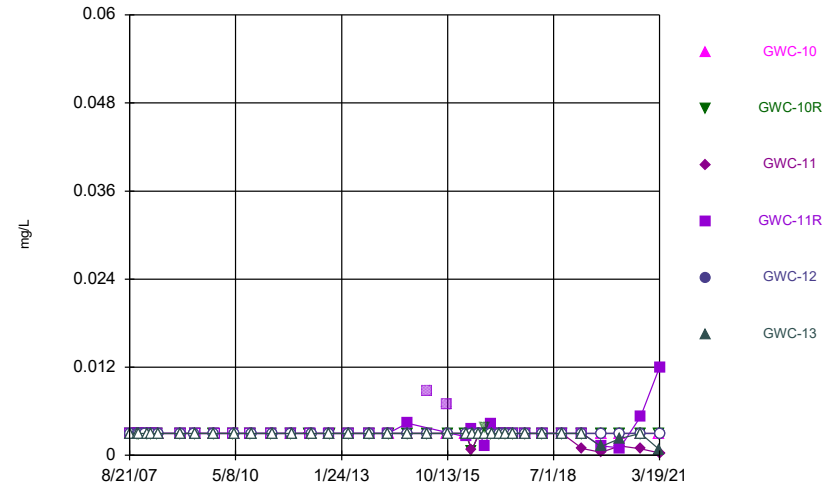
FIGURE A.

Time Series



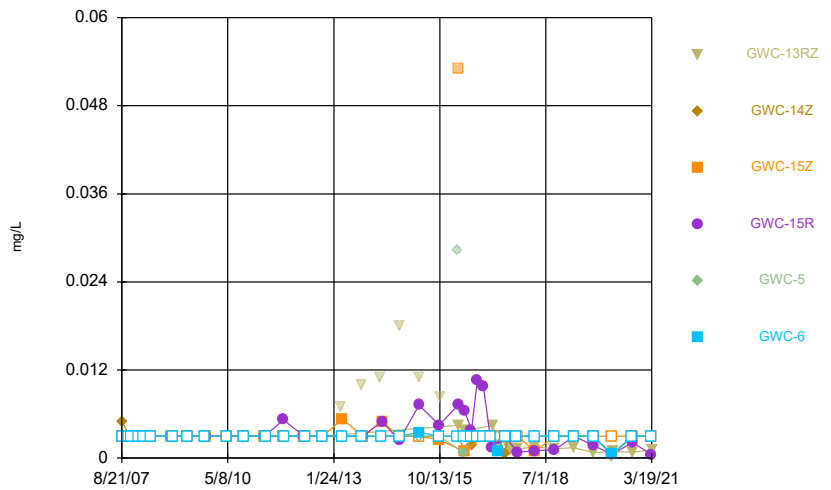
Constituent: Antimony Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



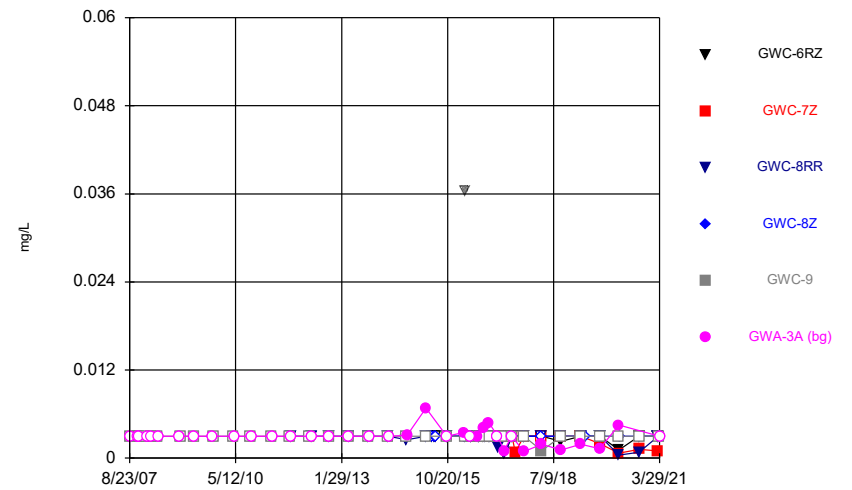
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



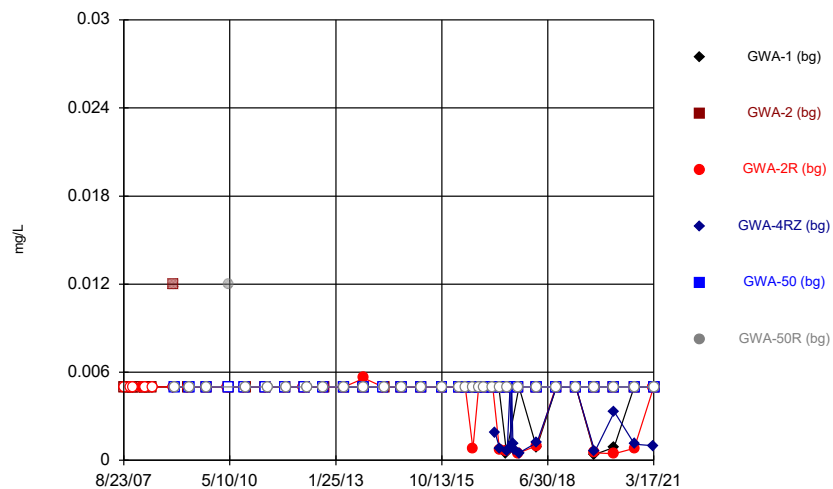
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



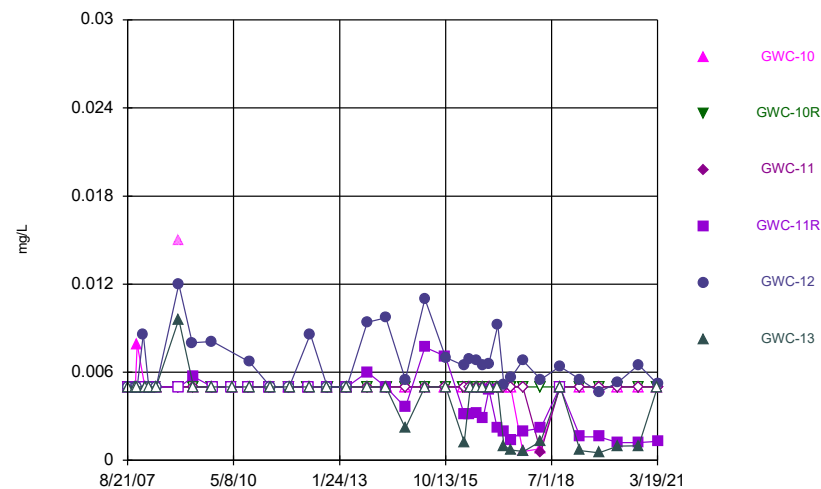
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



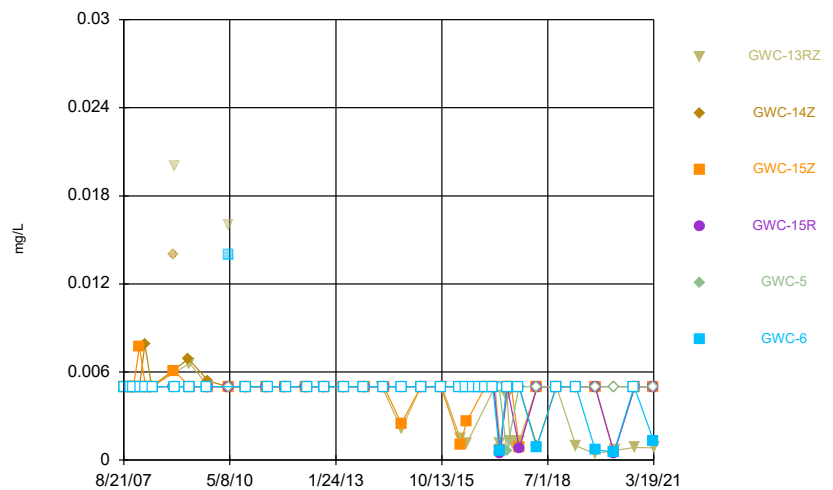
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



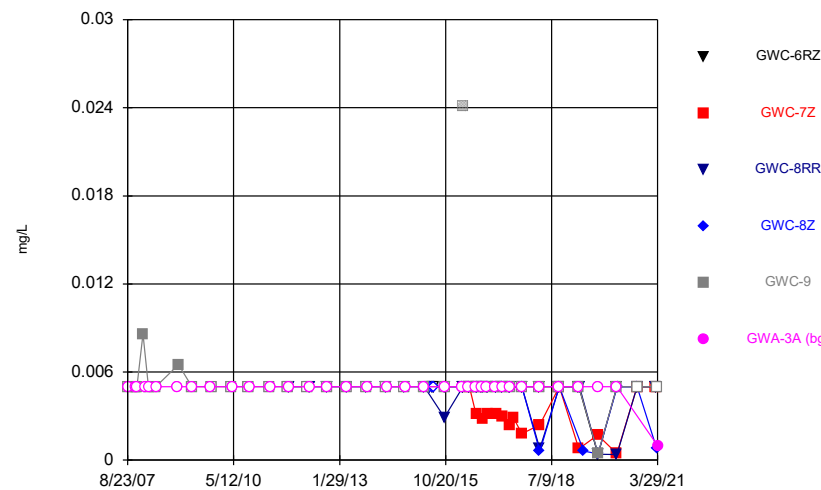
Constituent: Arsenic Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



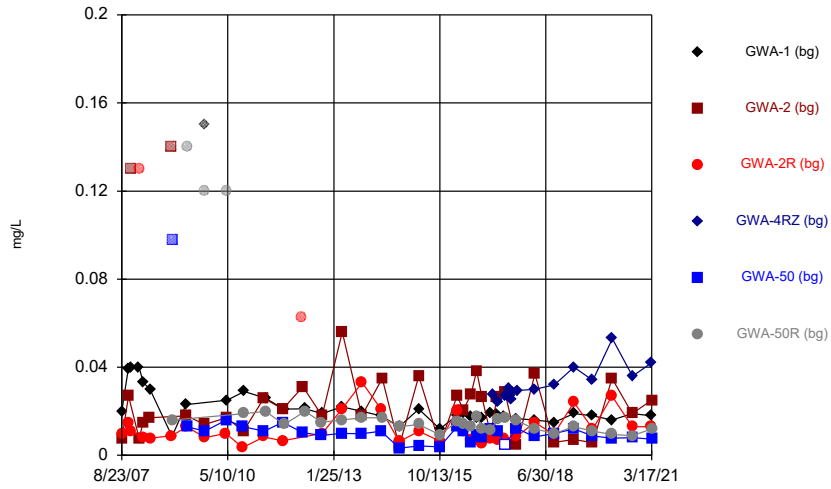
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



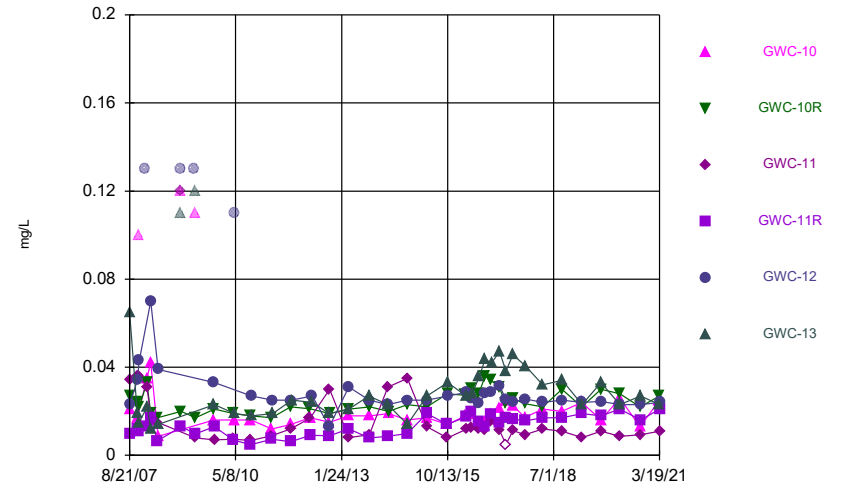
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



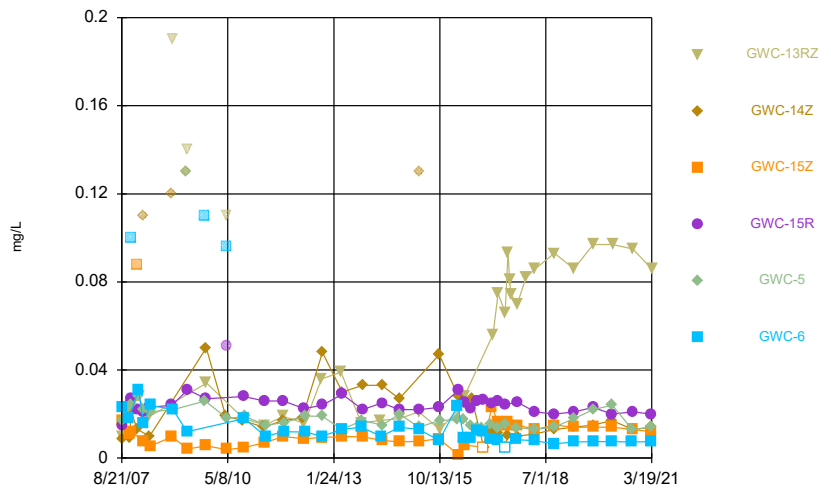
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



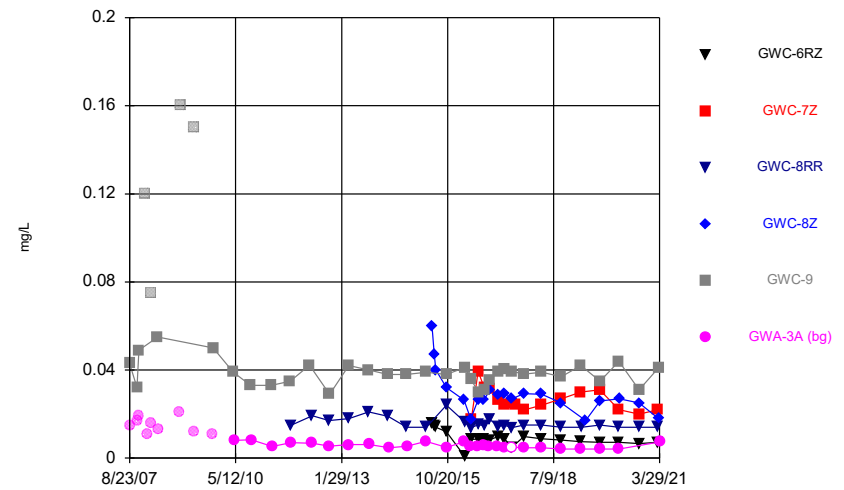
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



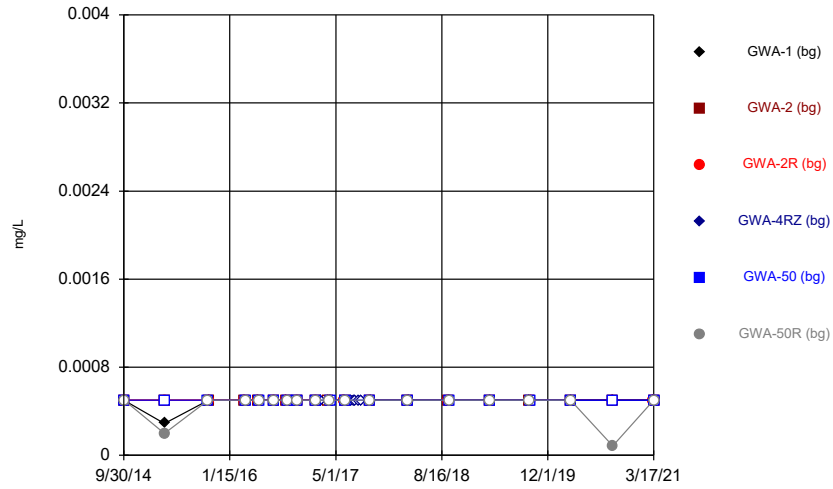
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



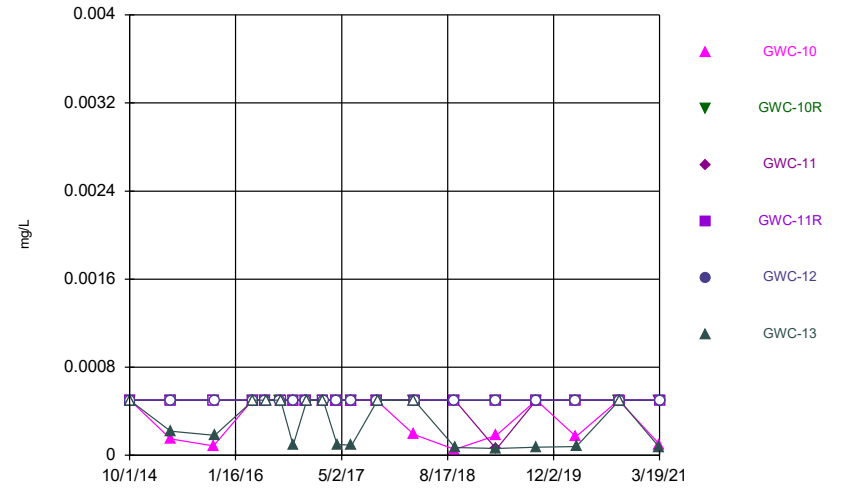
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



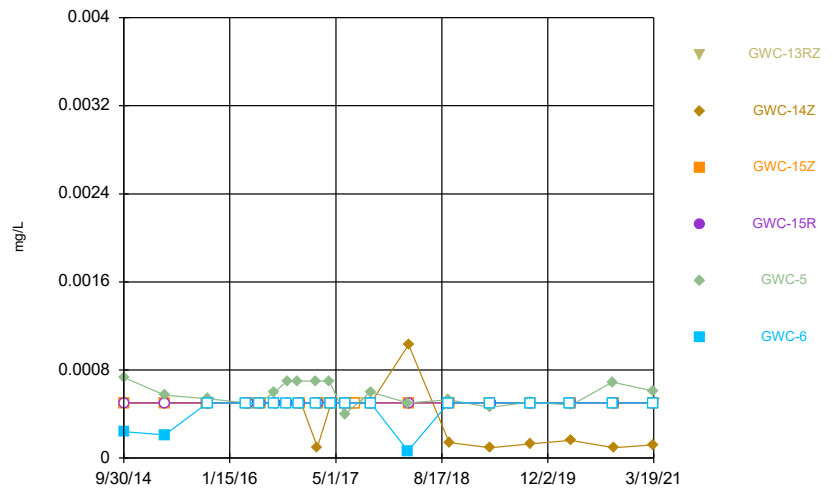
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



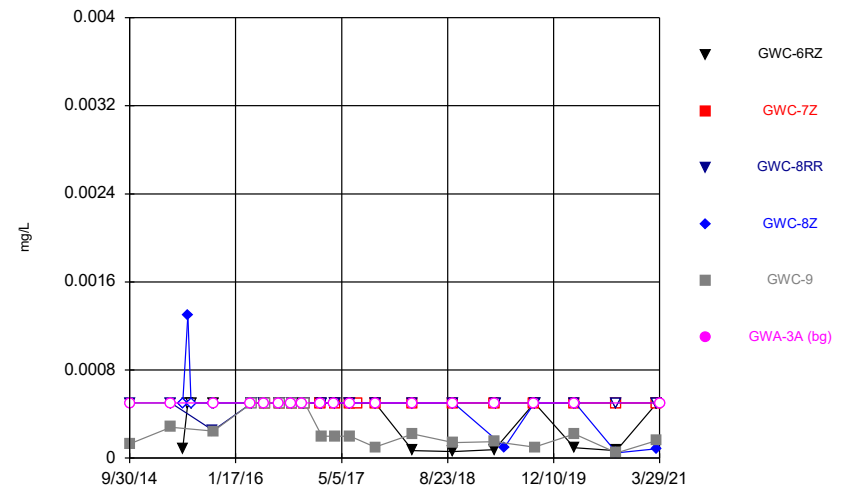
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



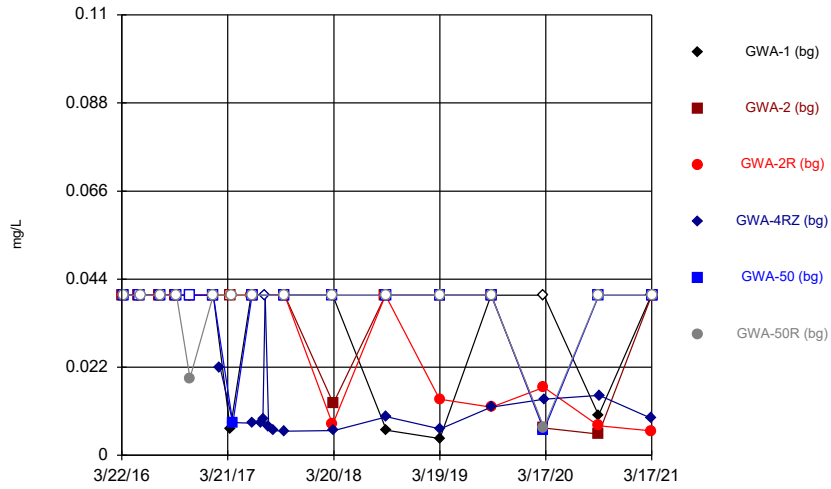
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



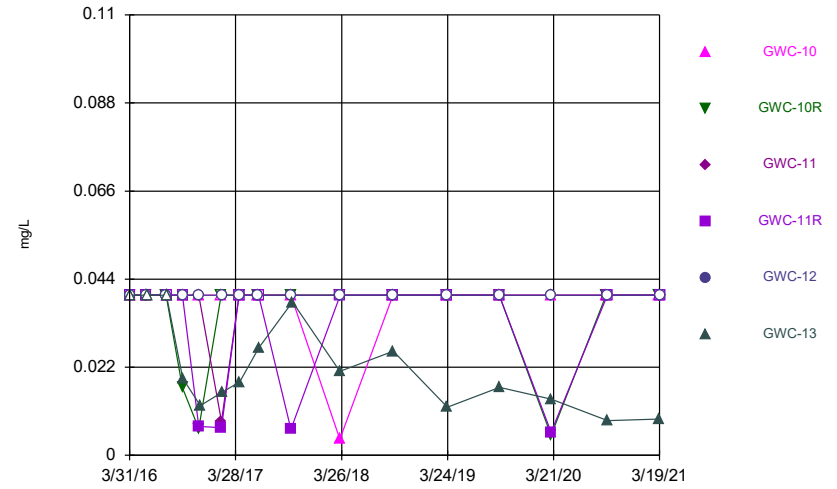
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



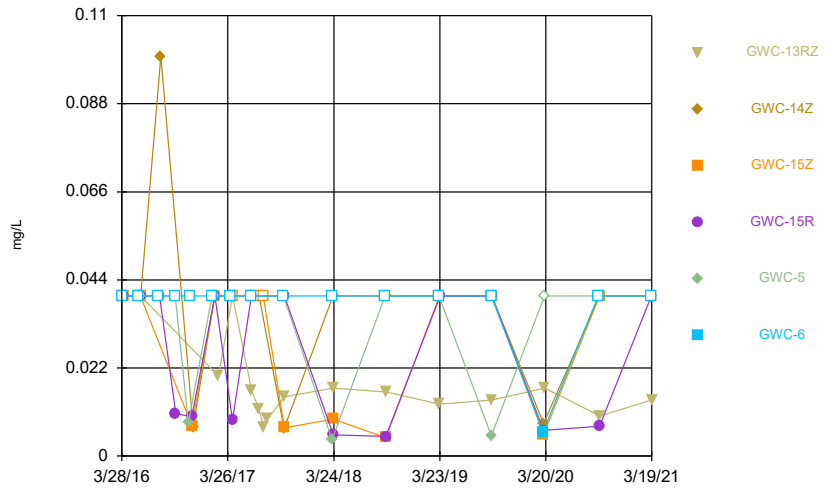
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



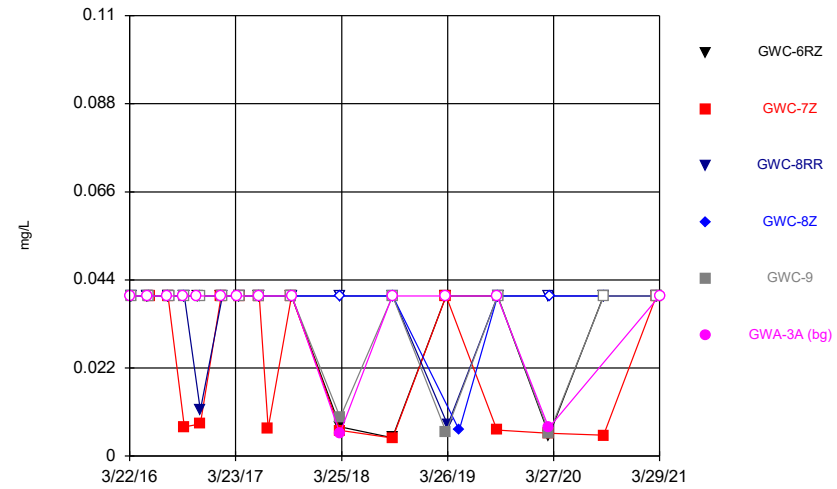
Constituent: Boron Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



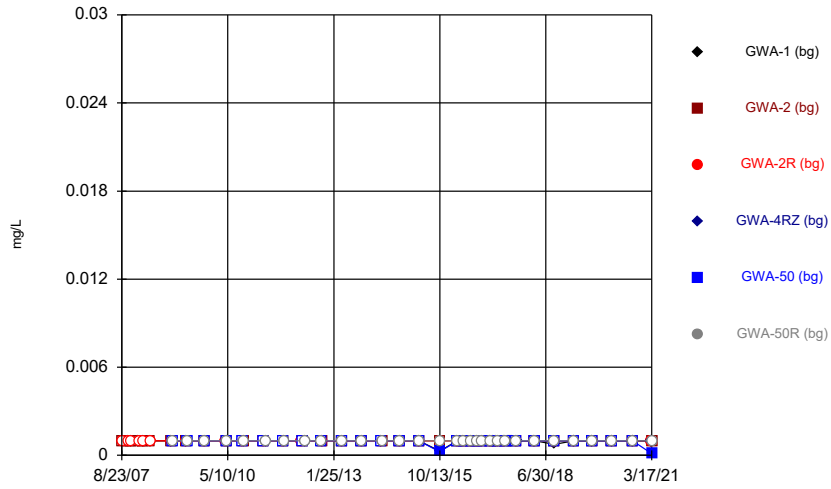
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



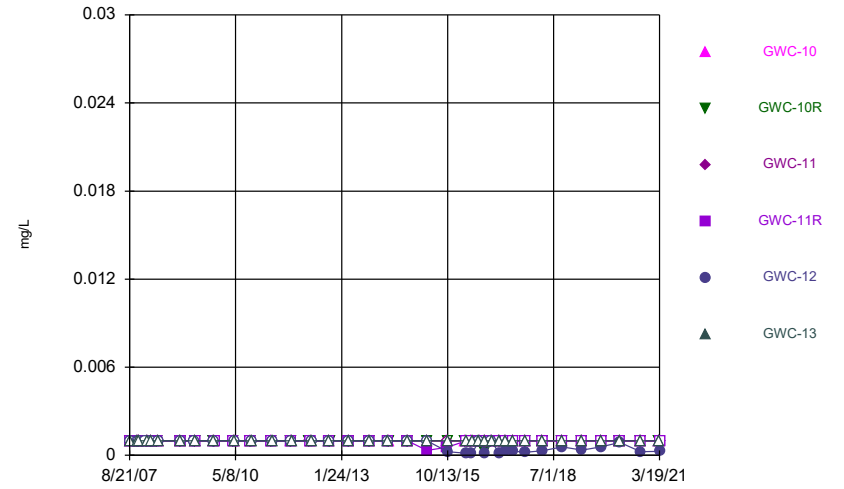
Constituent: Boron Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



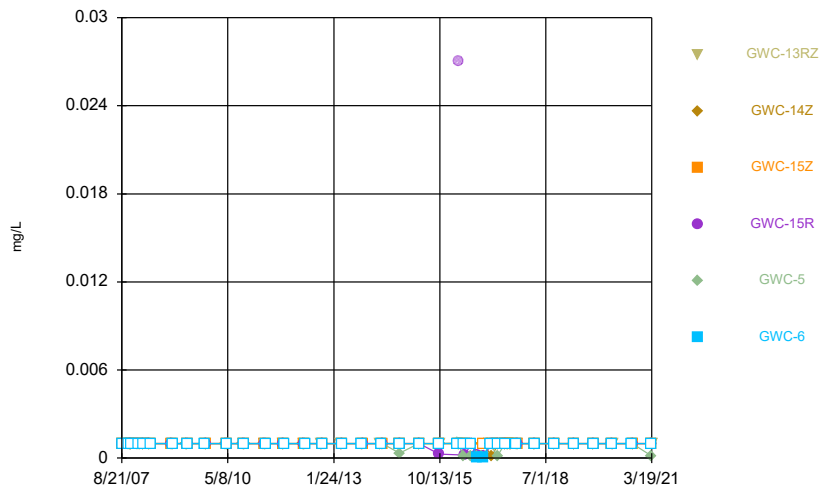
Constituent: Cadmium Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



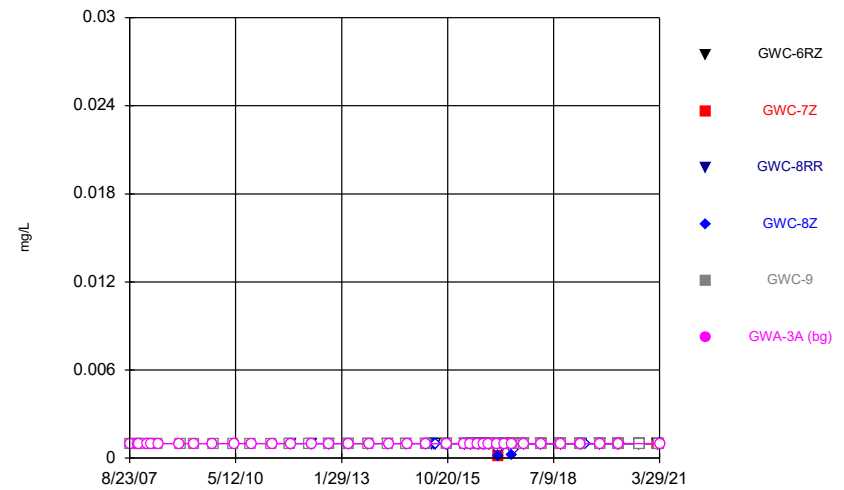
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



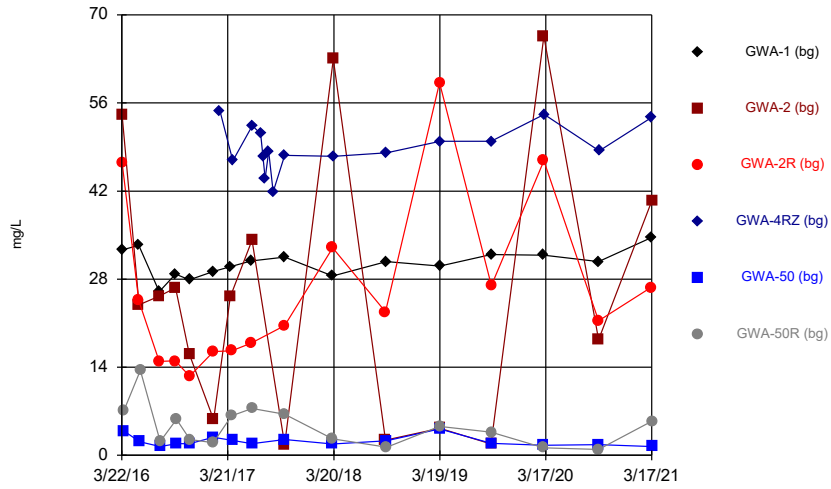
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



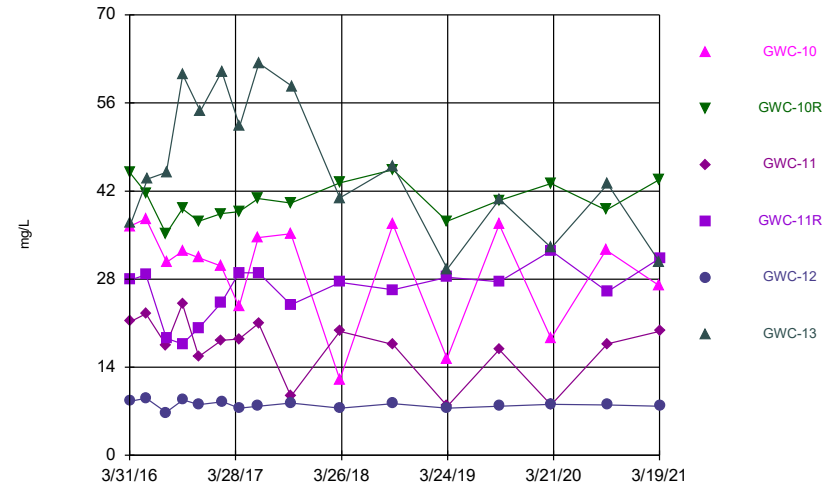
Constituent: Cadmium Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



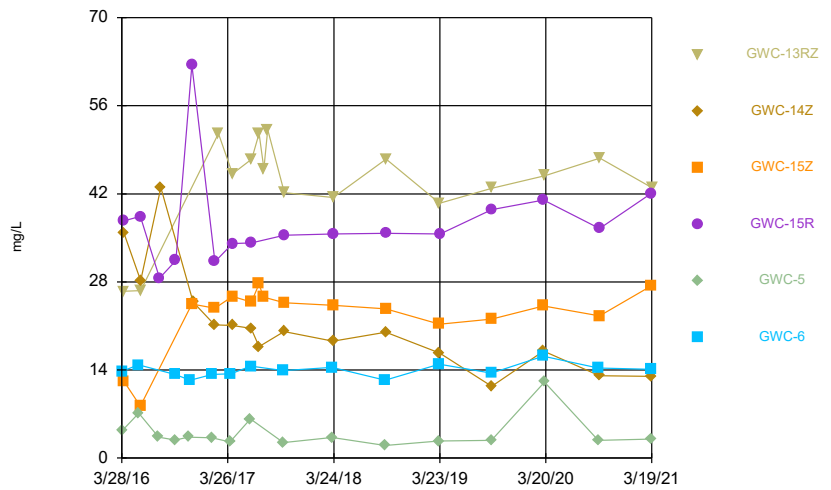
Constituent: Calcium Analysis Run 4/30/2021 10:32 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



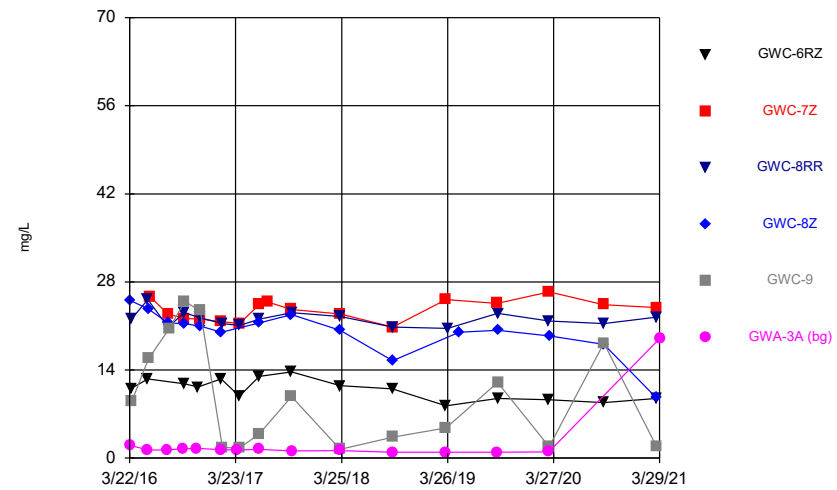
Constituent: Calcium Analysis Run 4/30/2021 10:32 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



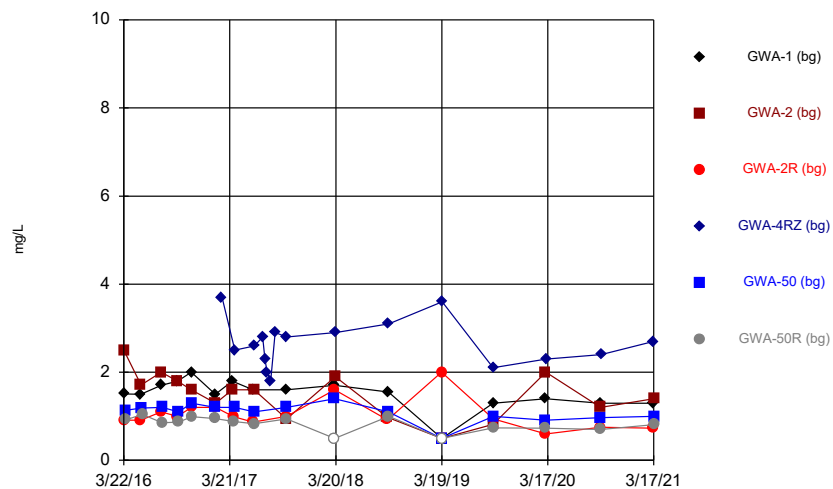
Constituent: Calcium Analysis Run 4/30/2021 10:32 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



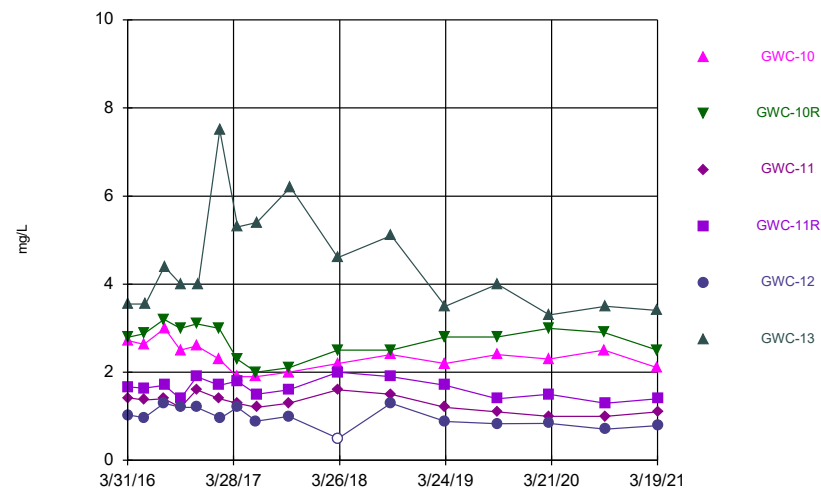
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



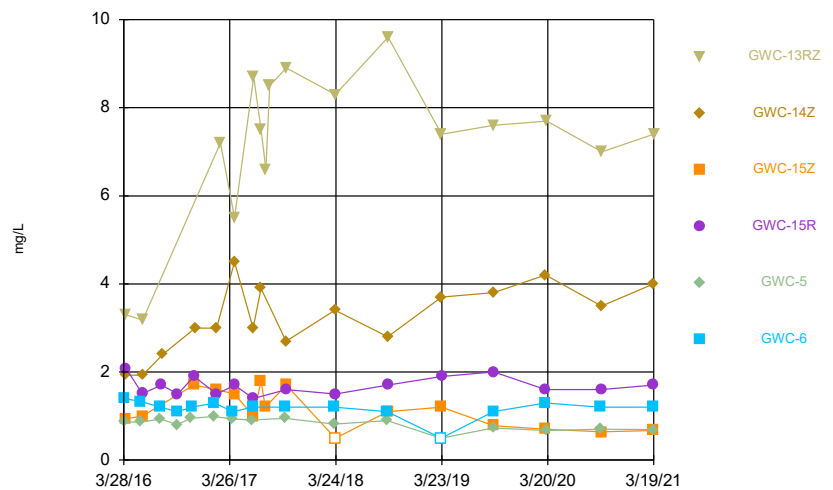
Constituent: Chloride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



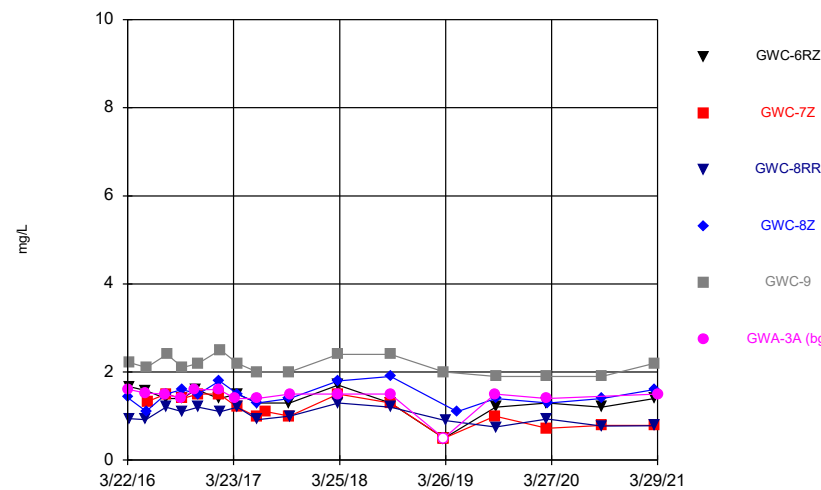
Constituent: Chloride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



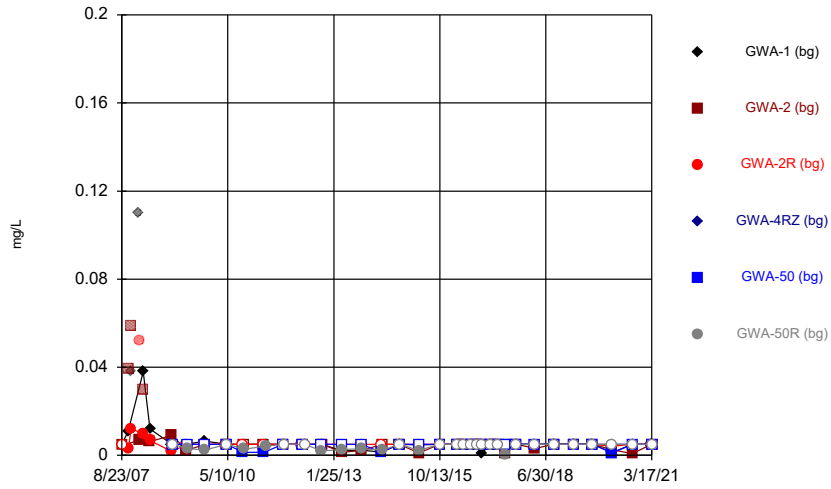
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



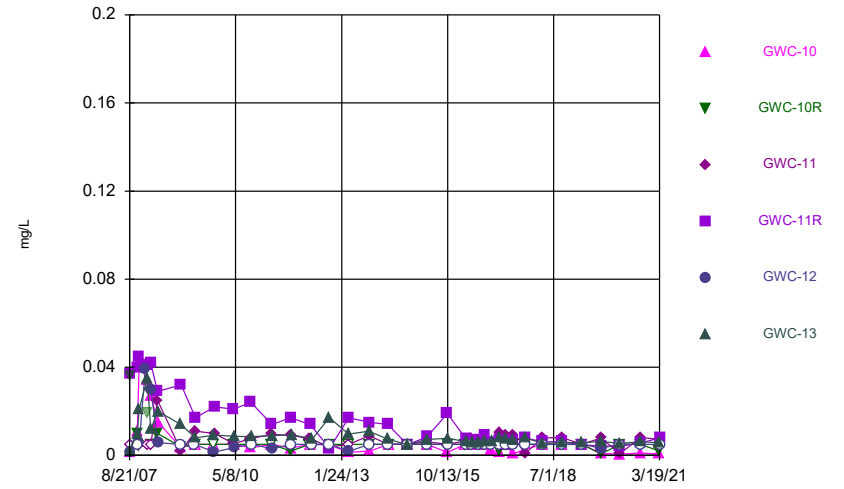
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



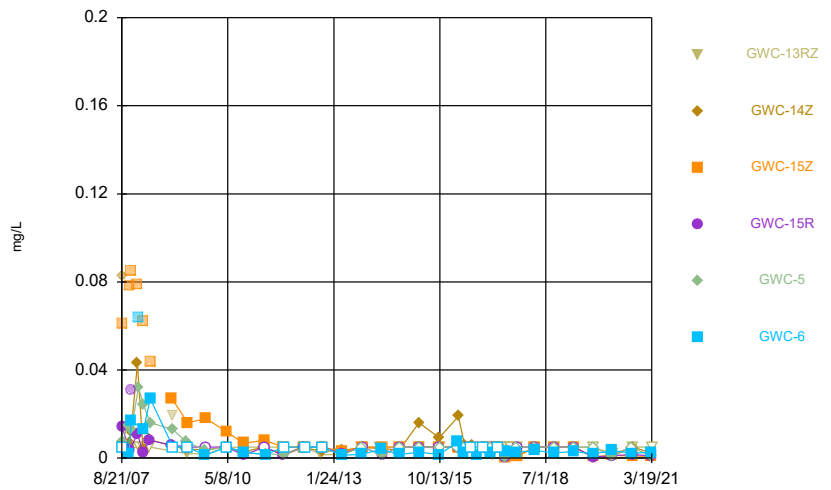
Constituent: Chromium Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



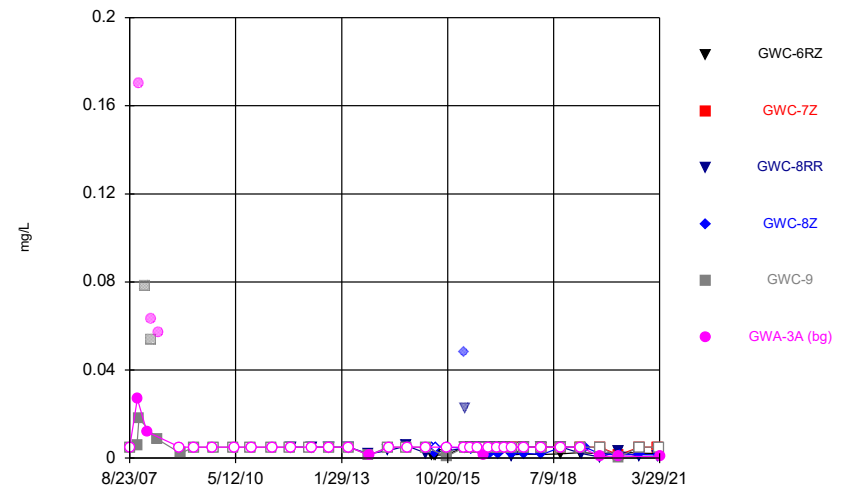
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



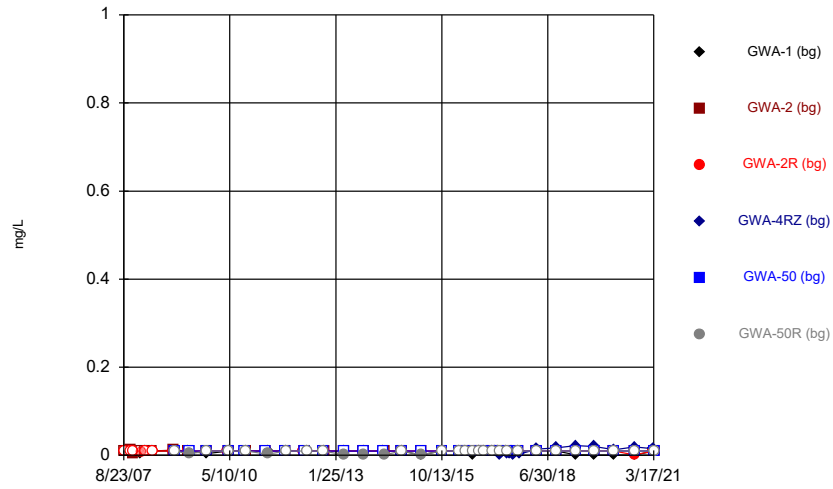
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



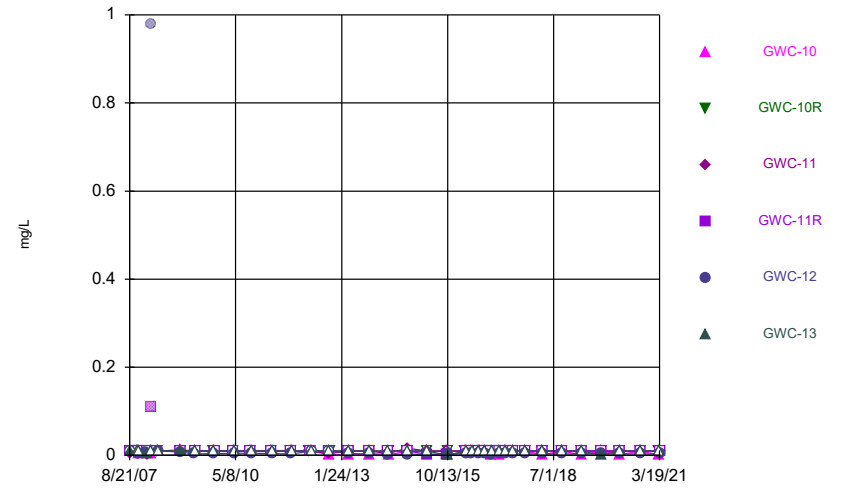
Constituent: Chromium Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



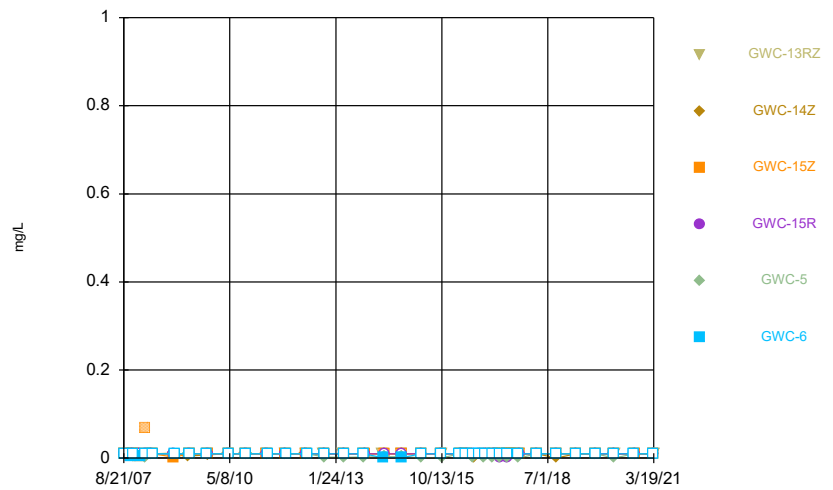
Constituent: Cobalt Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



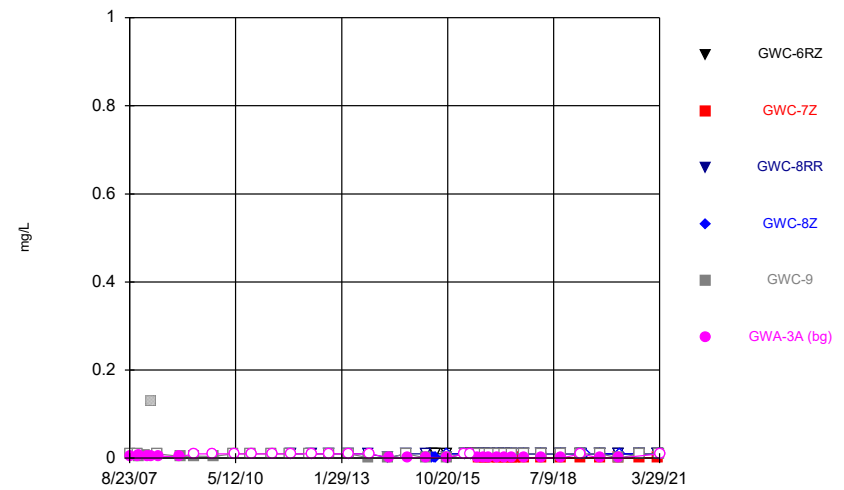
Constituent: Cobalt Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



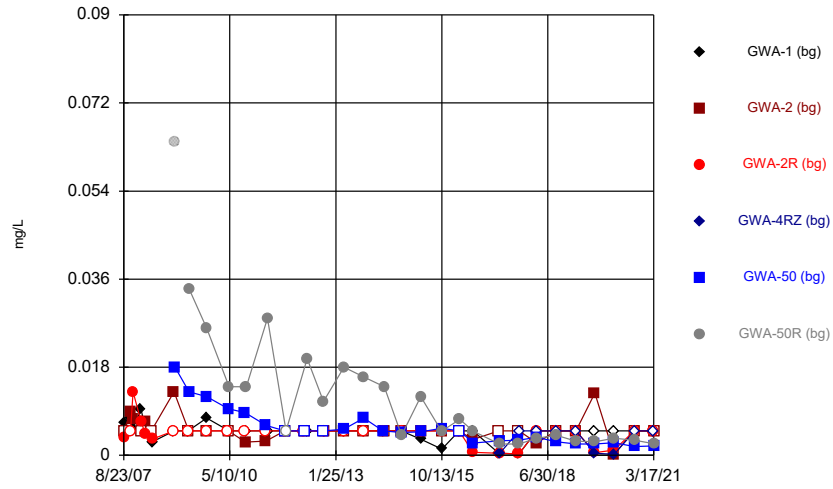
Constituent: Cobalt Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



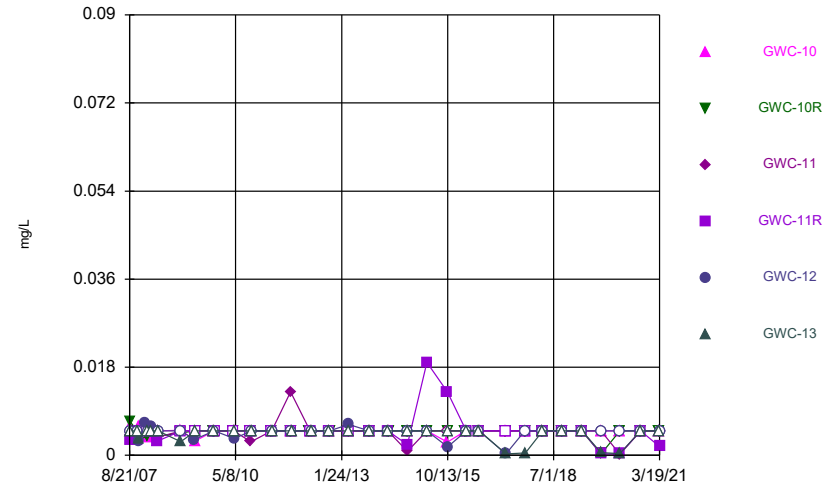
Constituent: Cobalt Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



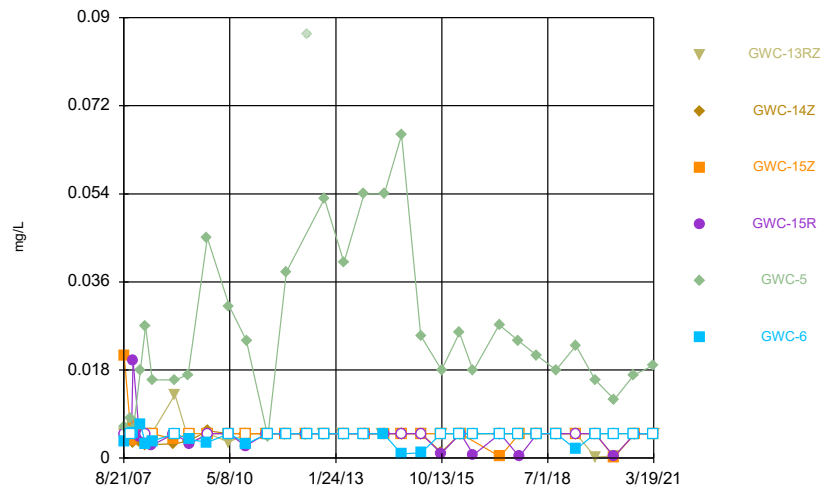
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



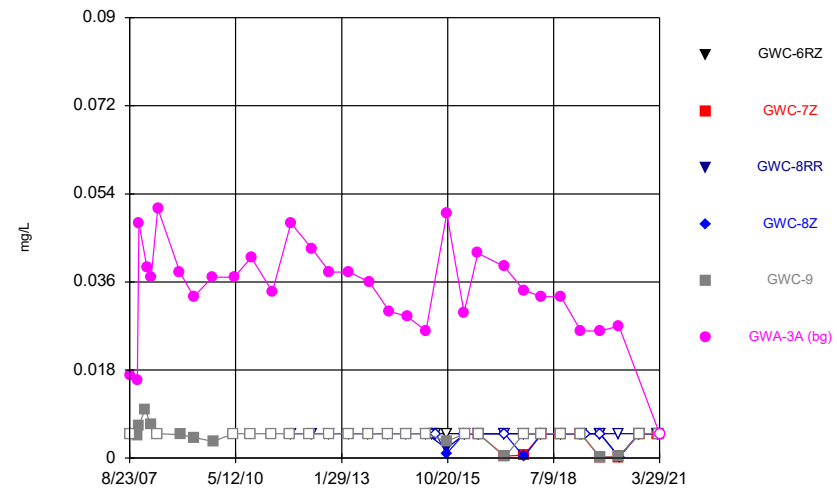
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



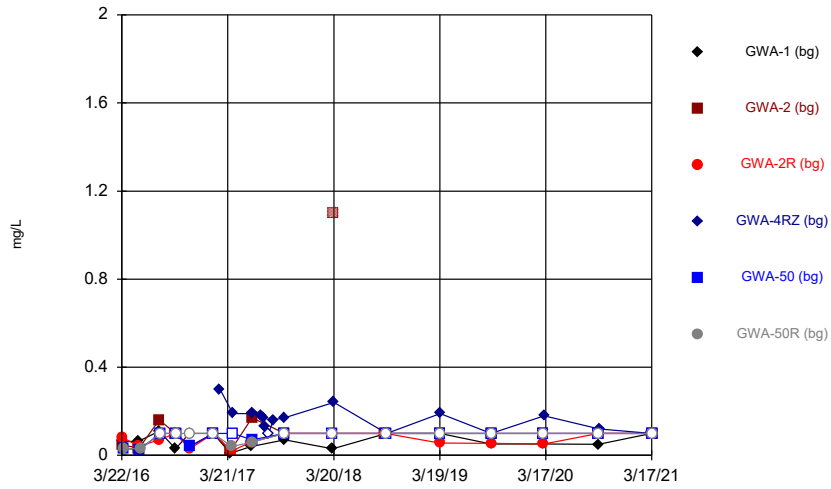
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



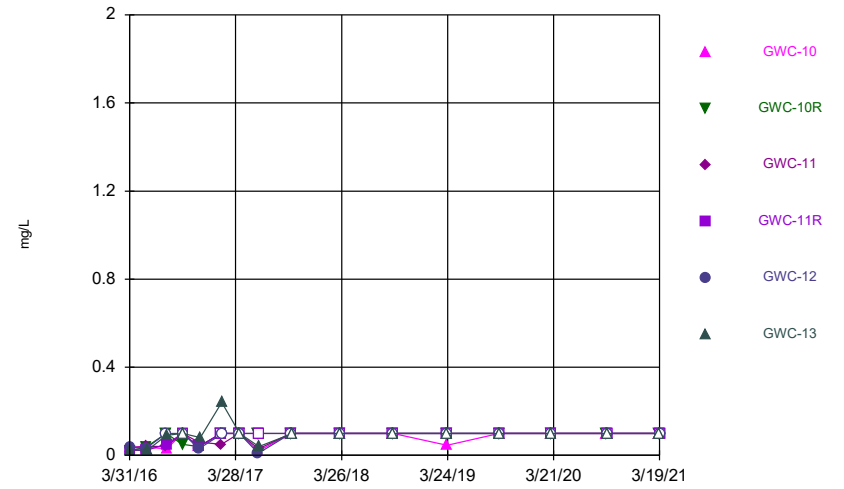
Constituent: Copper Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



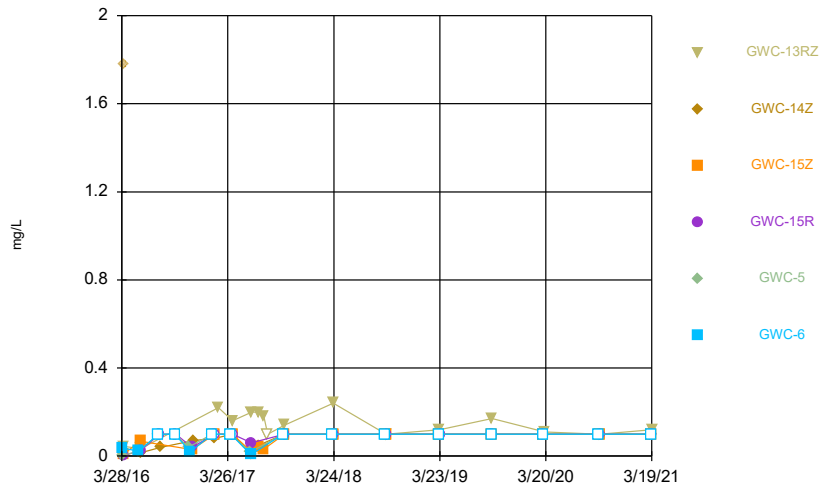
Constituent: Fluoride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



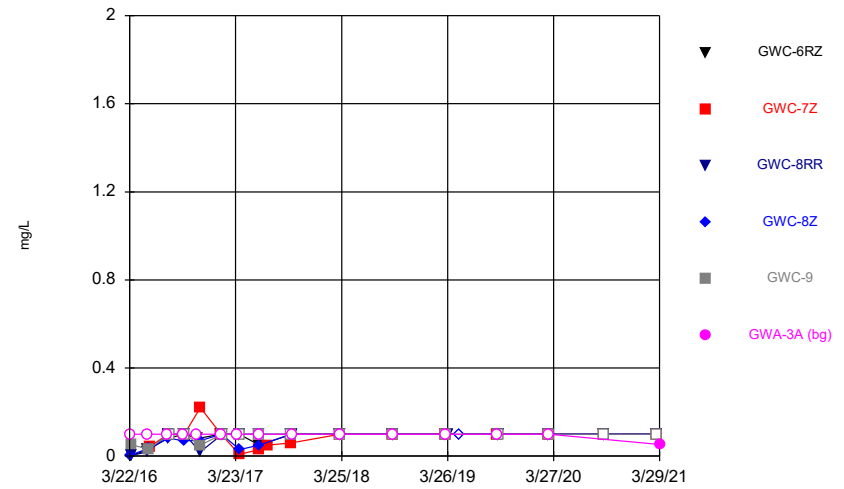
Constituent: Fluoride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



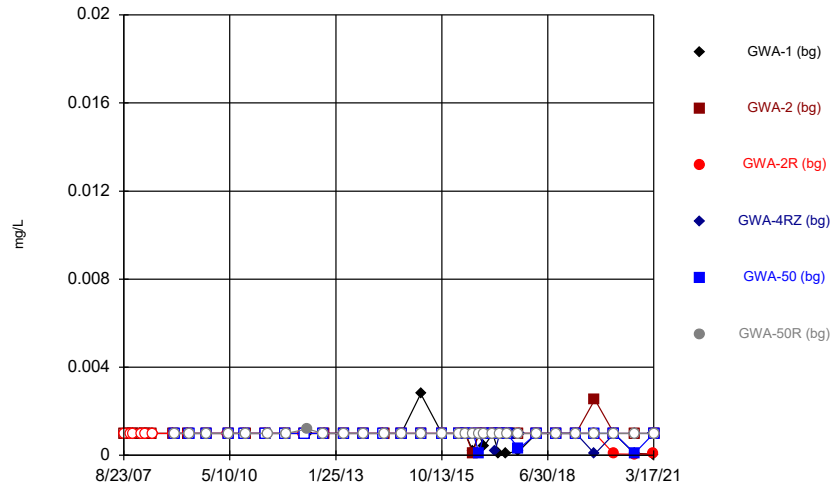
Constituent: Fluoride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



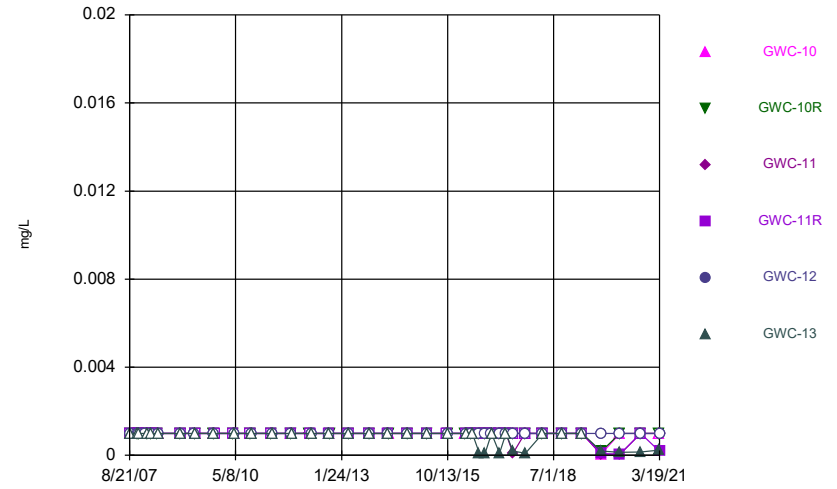
Constituent: Fluoride Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



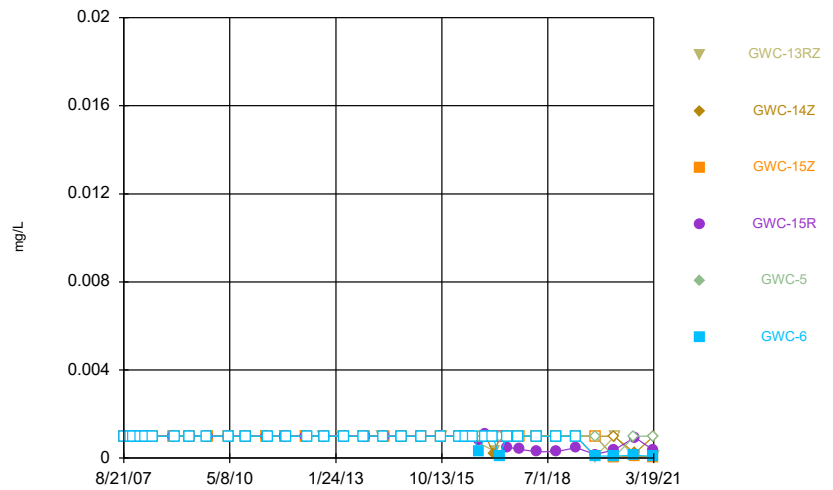
Constituent: Lead Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



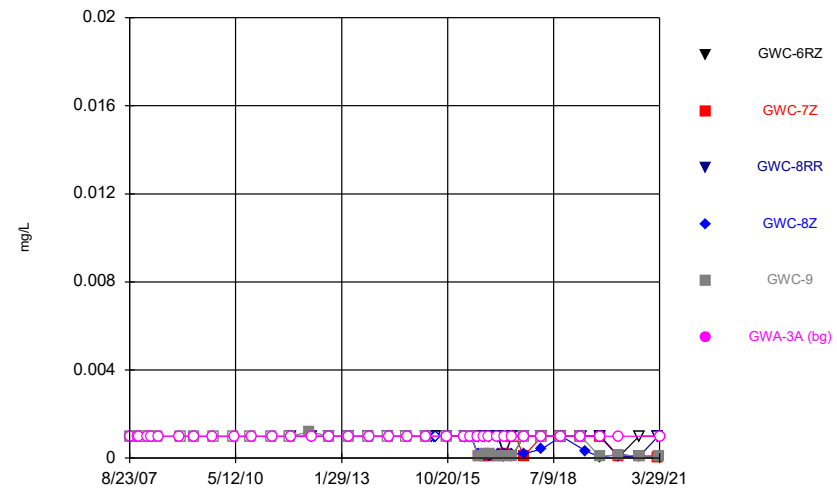
Constituent: Lead Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



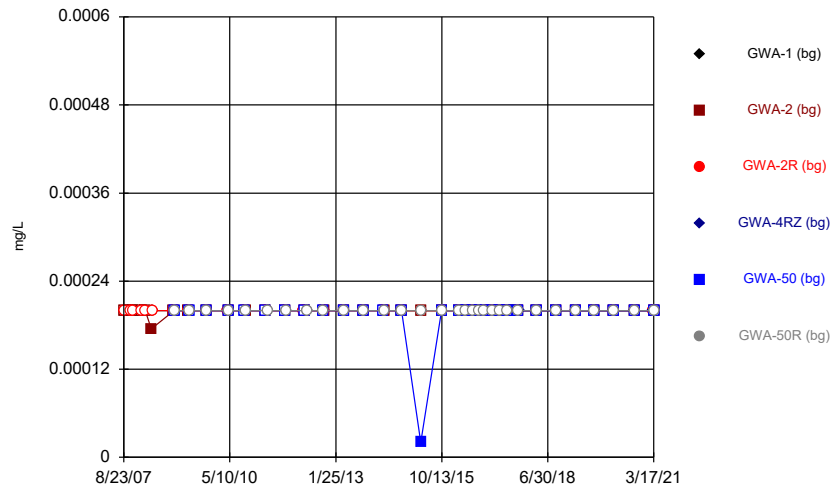
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



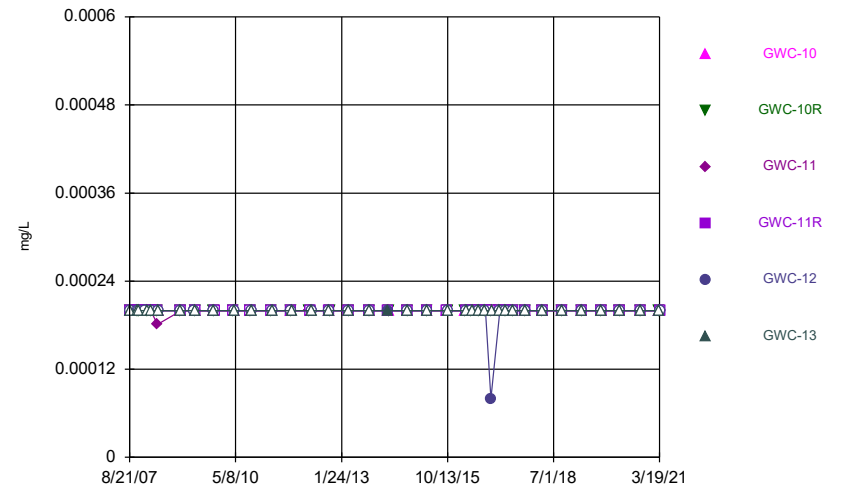
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



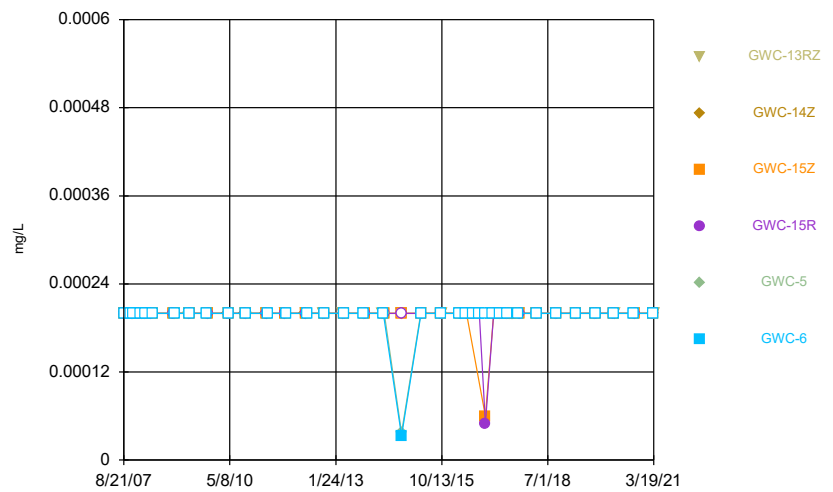
Constituent: Mercury Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



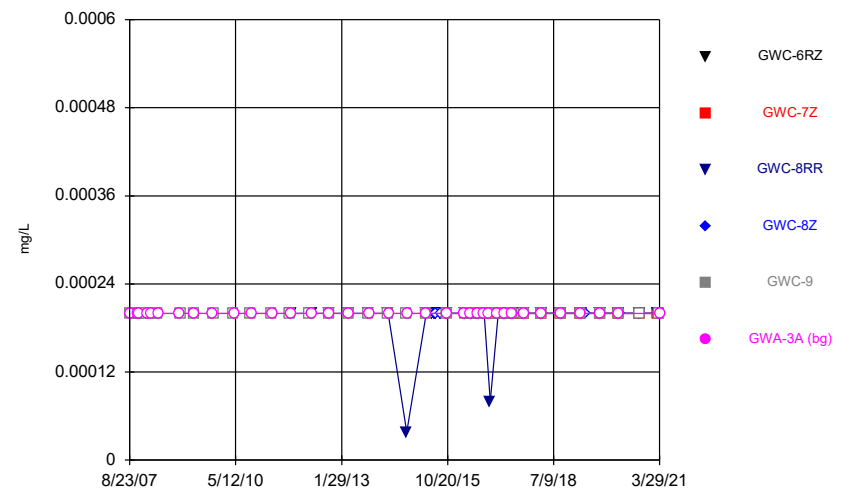
Constituent: Mercury Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



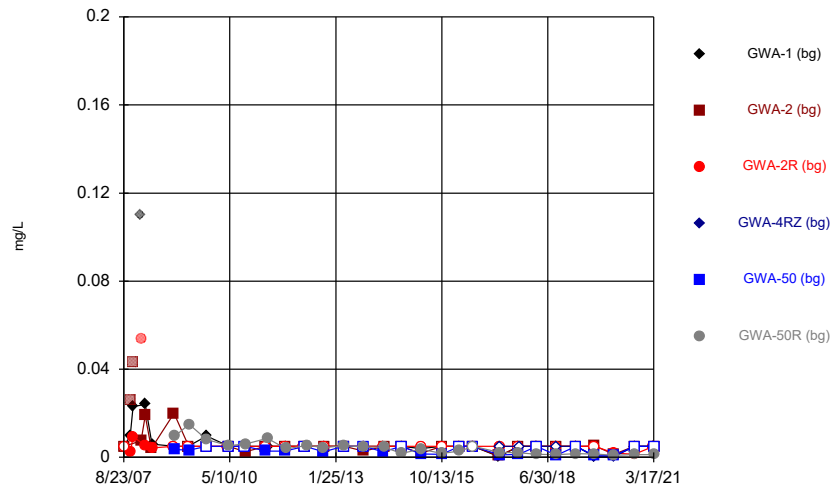
Constituent: Mercury Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



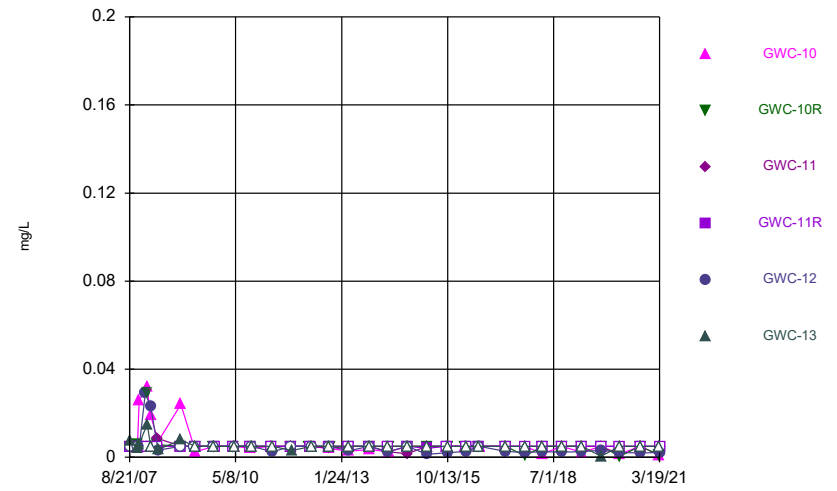
Constituent: Mercury Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



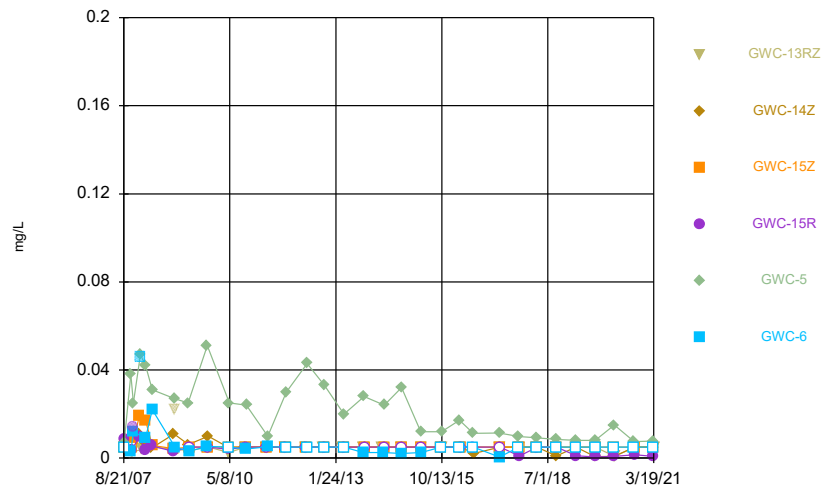
Constituent: Nickel Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



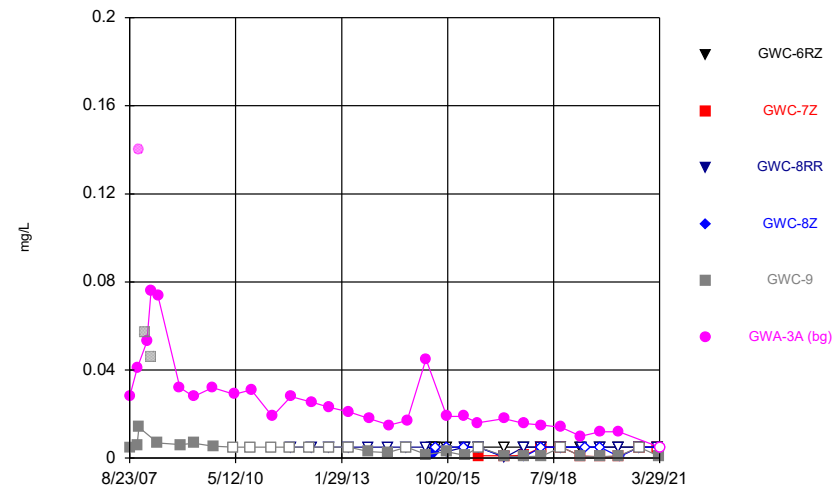
Constituent: Nickel Analysis Run 4/30/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



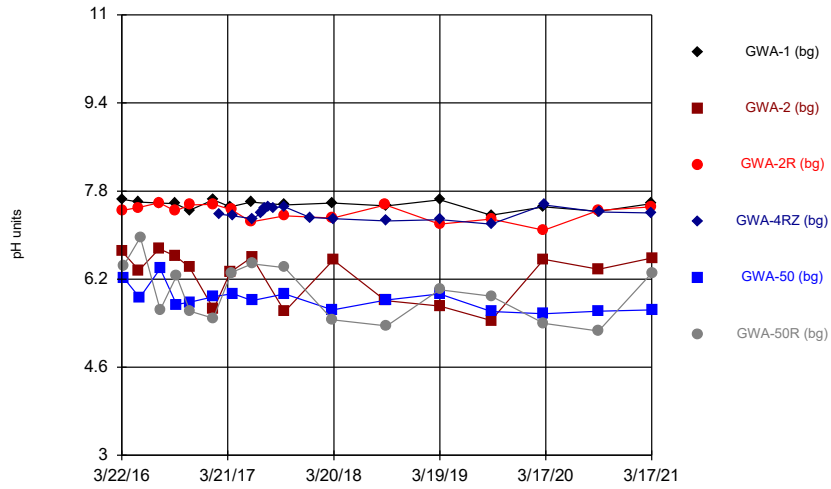
Constituent: Nickel Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



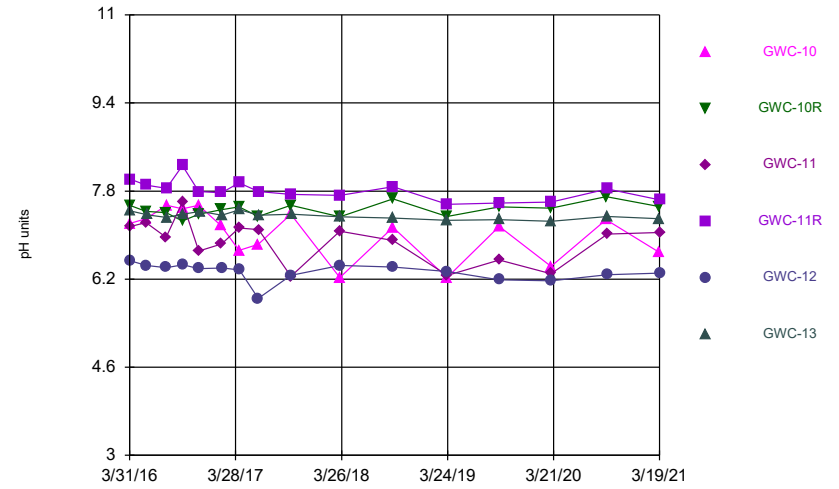
Constituent: Nickel Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



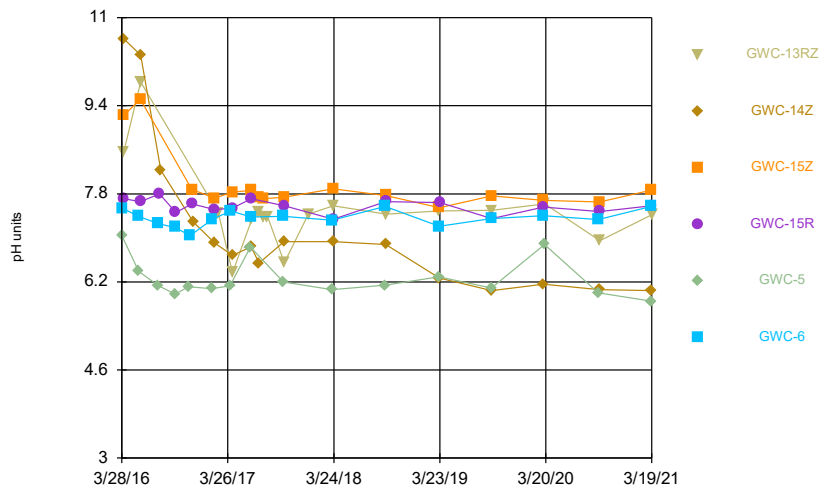
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



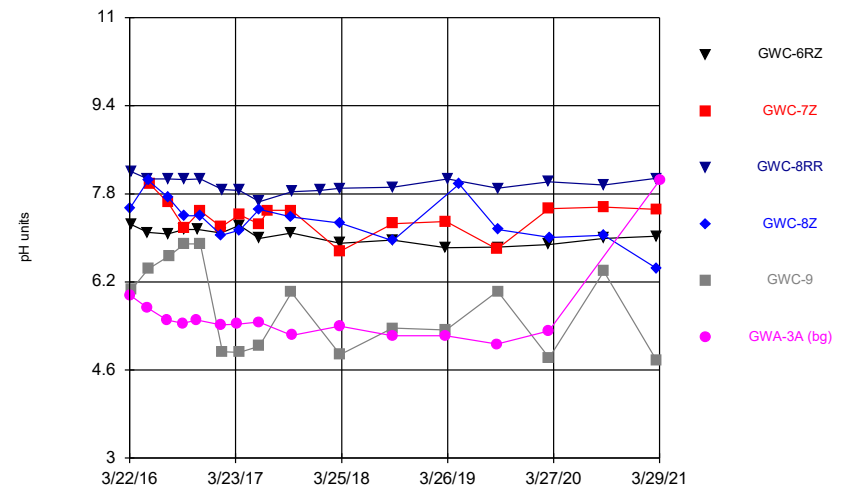
Constituent: pH Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



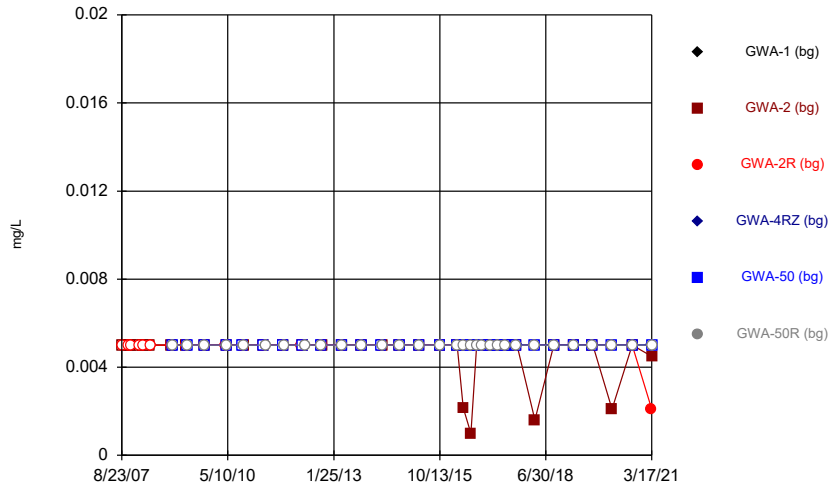
Constituent: pH Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



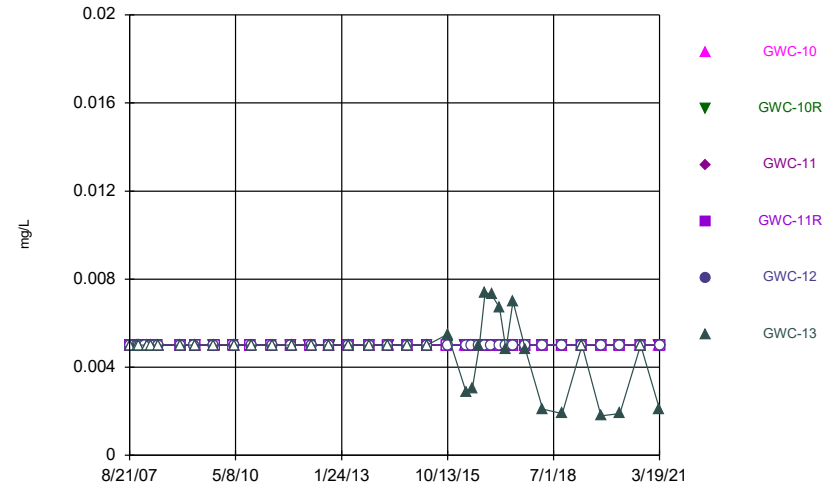
Constituent: pH Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



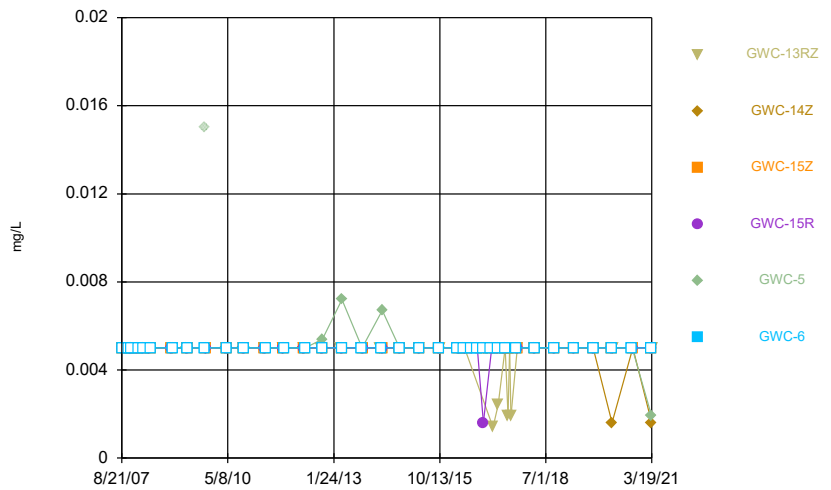
Constituent: Selenium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



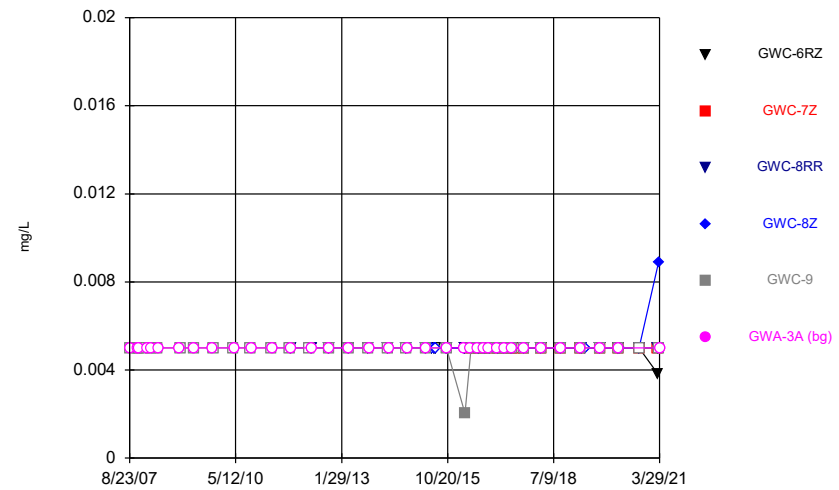
Constituent: Selenium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



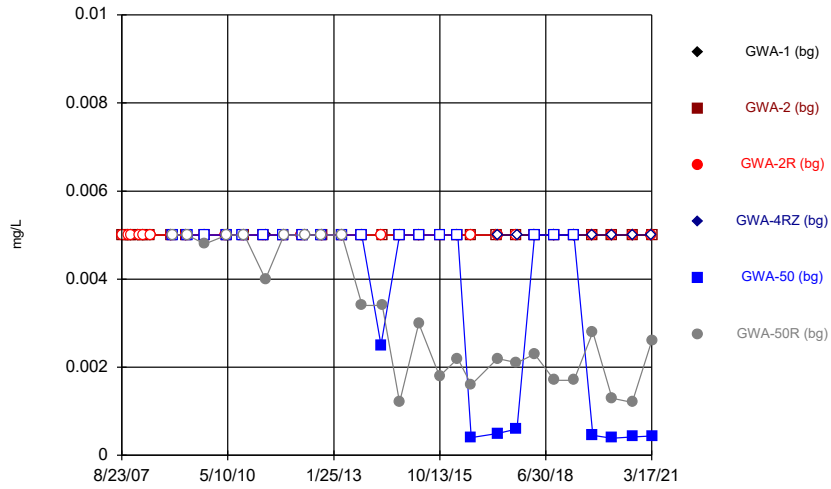
Constituent: Selenium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



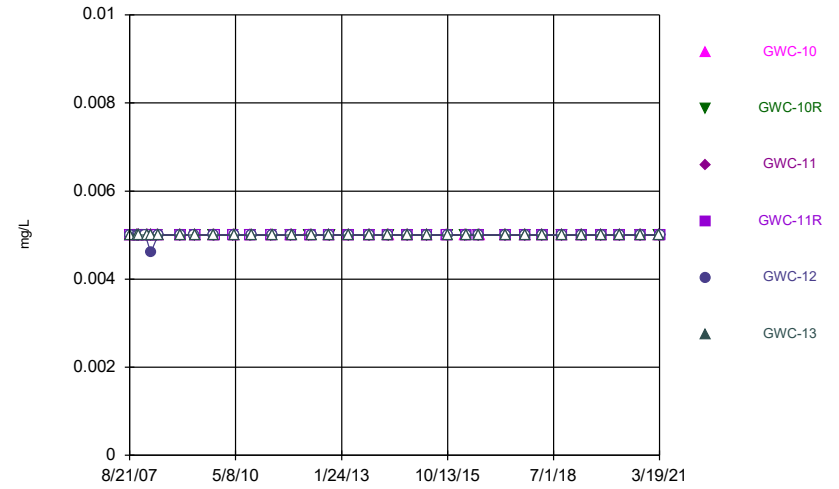
Constituent: Selenium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



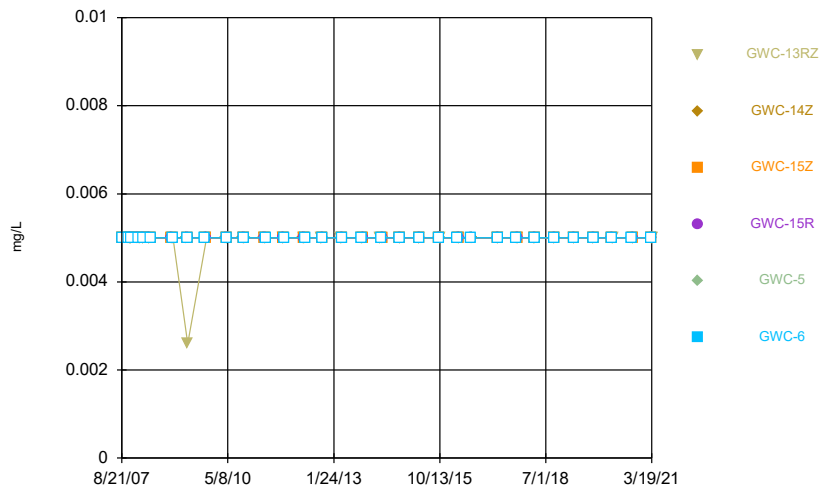
Constituent: Silver Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



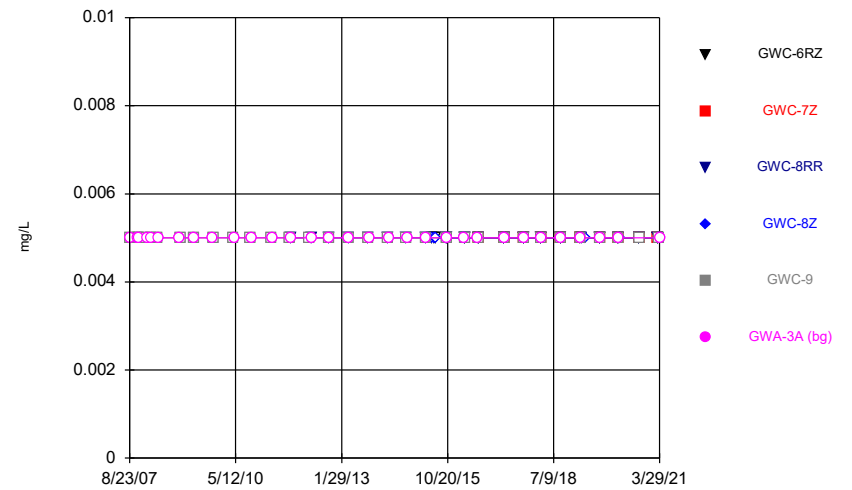
Constituent: Silver Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



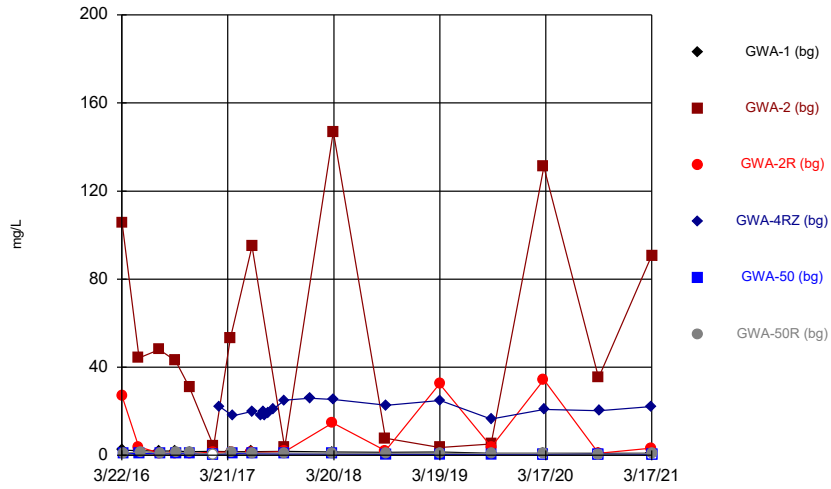
Constituent: Silver Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



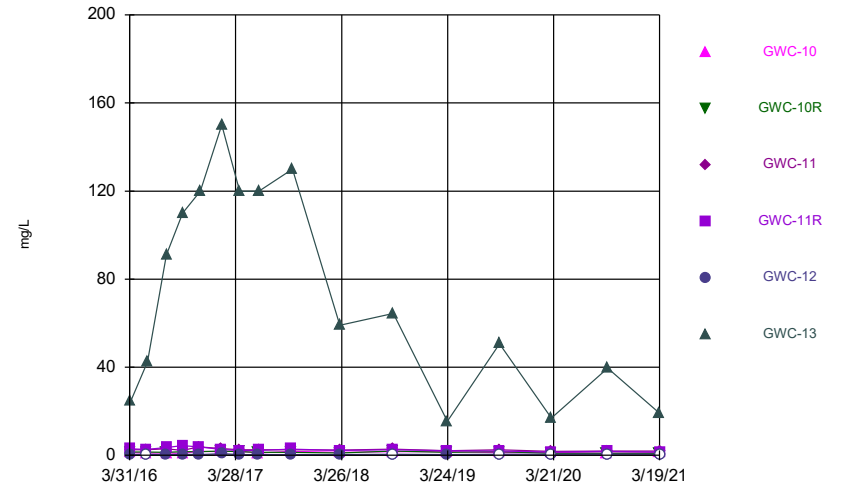
Constituent: Silver Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



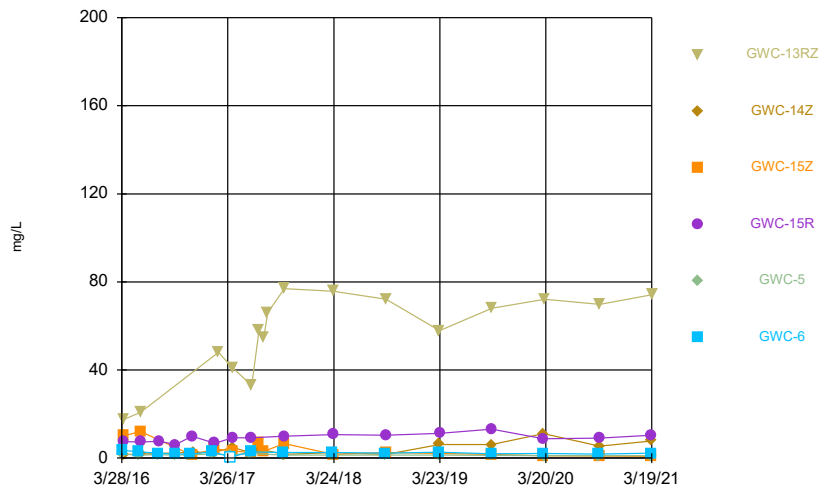
Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



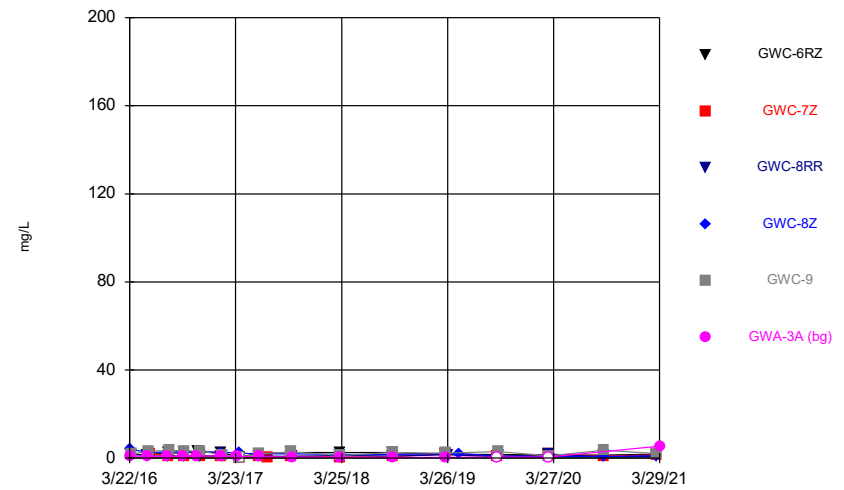
Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



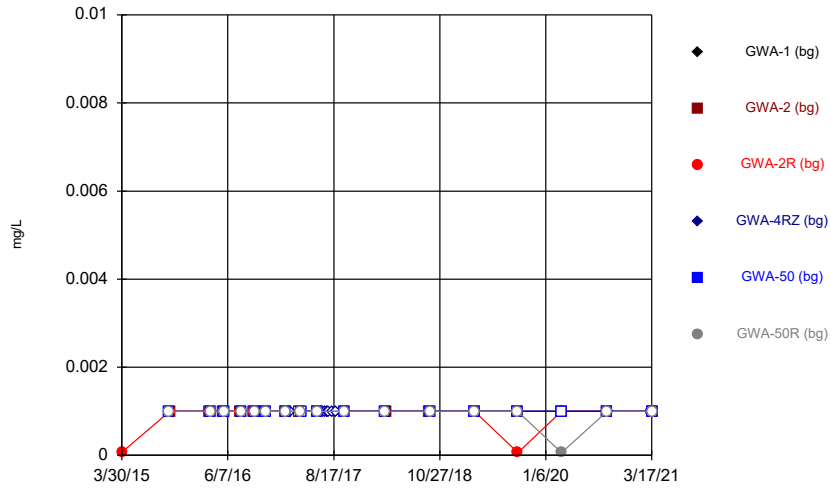
Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



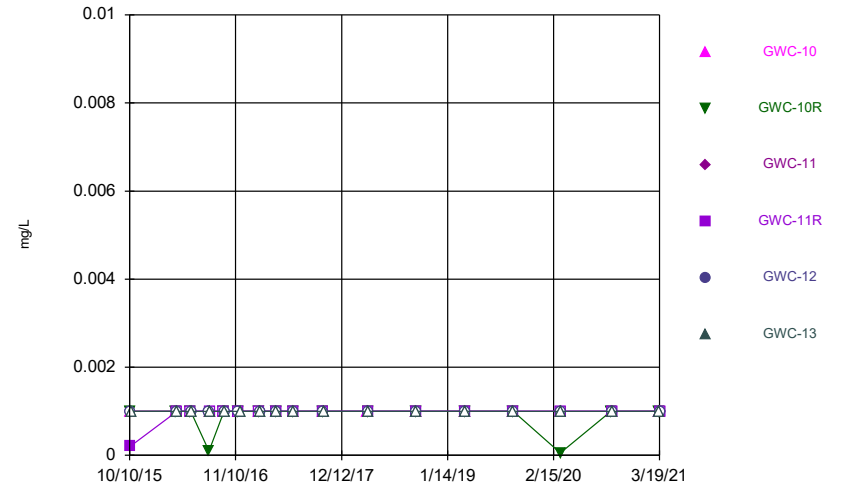
Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



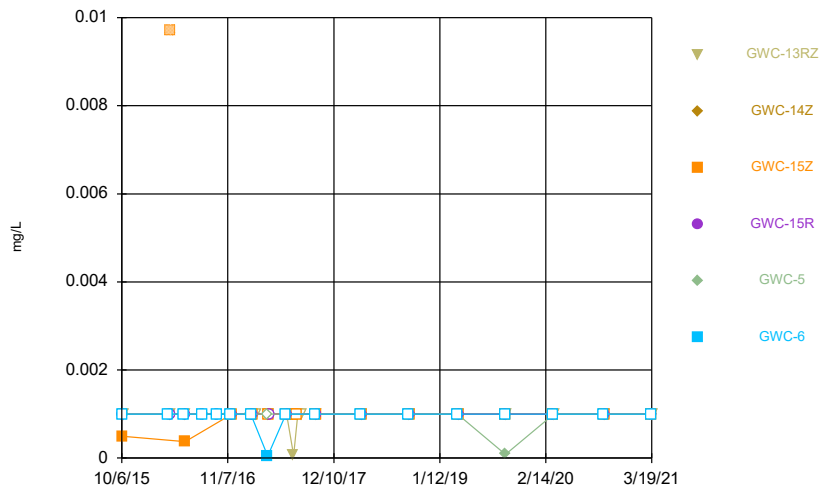
Constituent: Thallium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



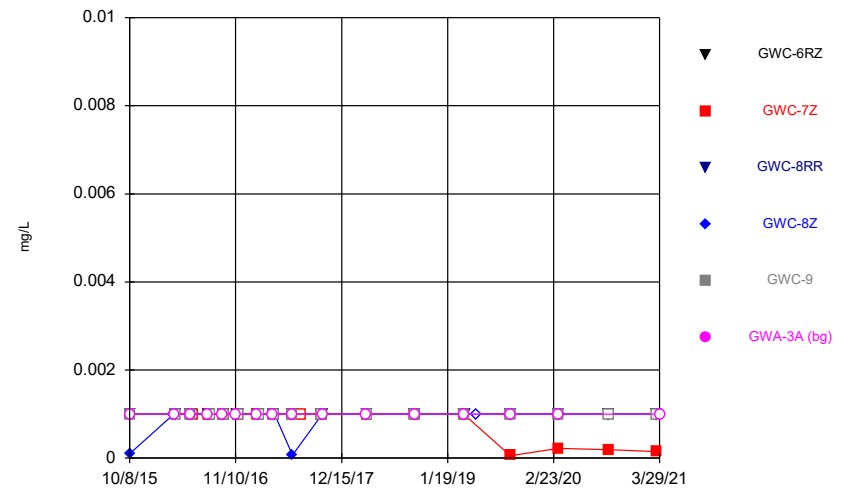
Constituent: Thallium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



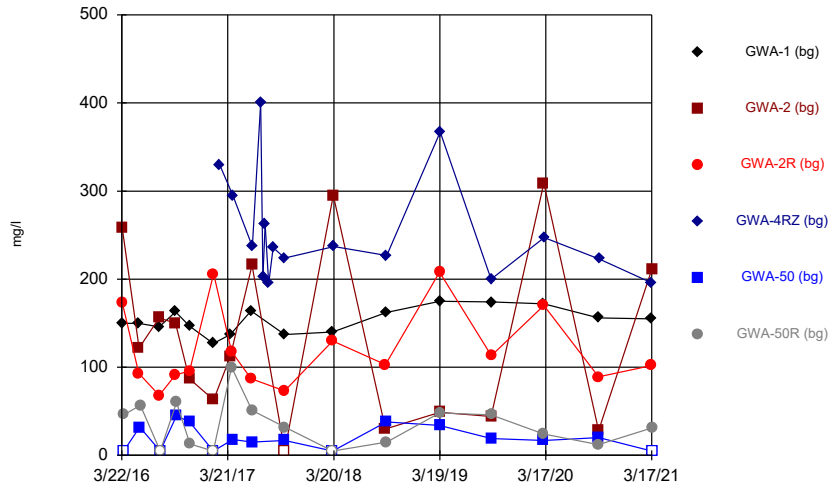
Constituent: Thallium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



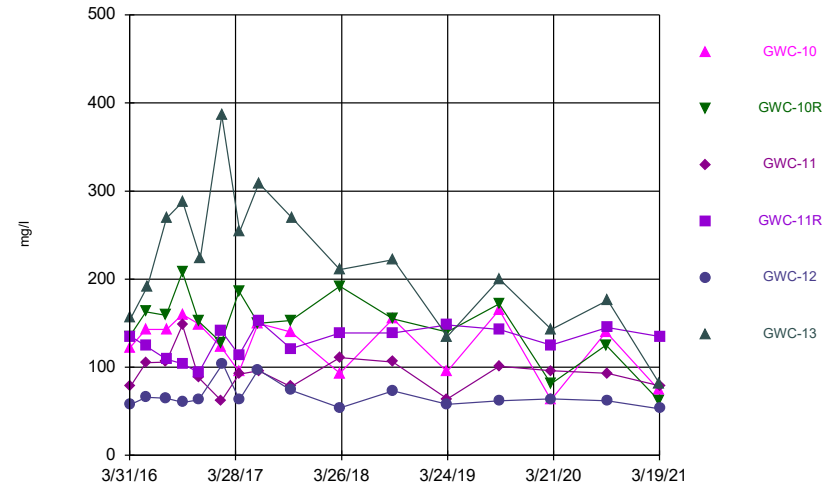
Constituent: Thallium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



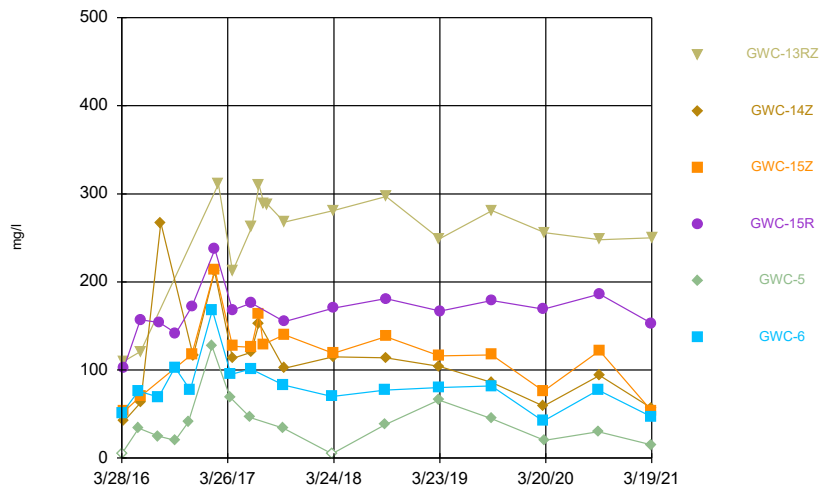
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



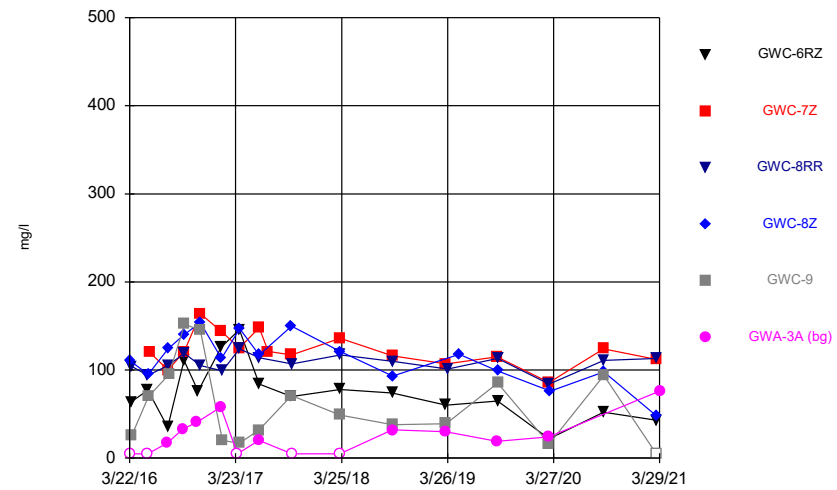
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



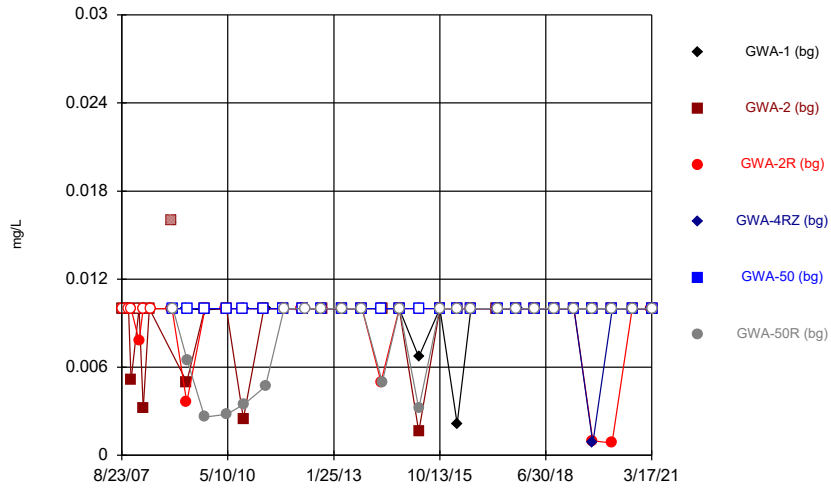
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



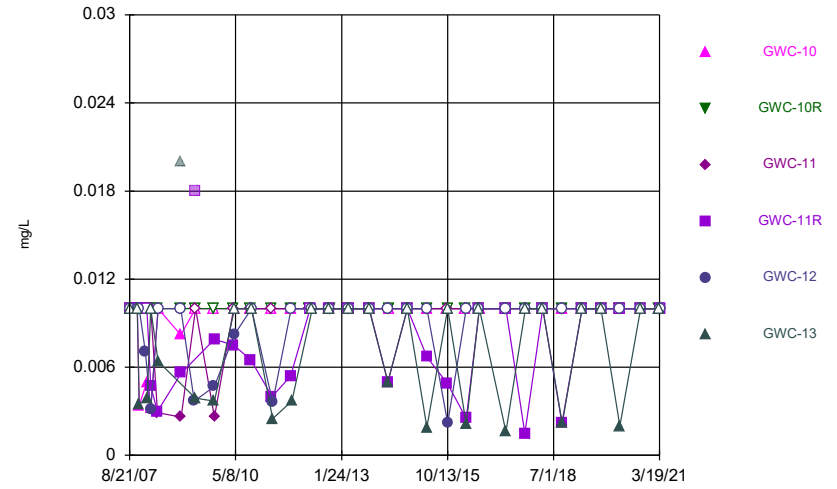
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



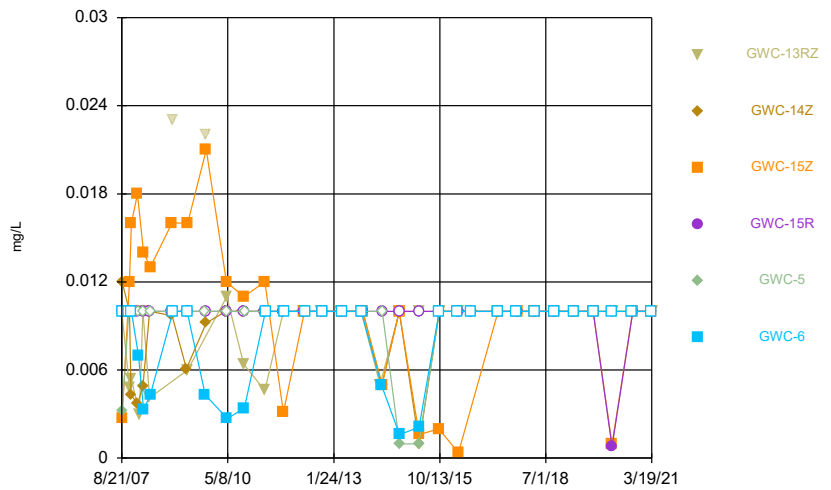
Constituent: Vanadium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



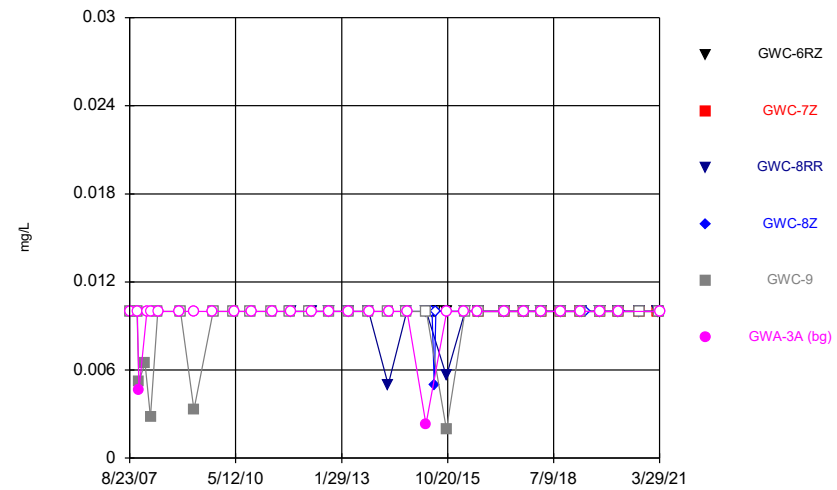
Constituent: Vanadium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



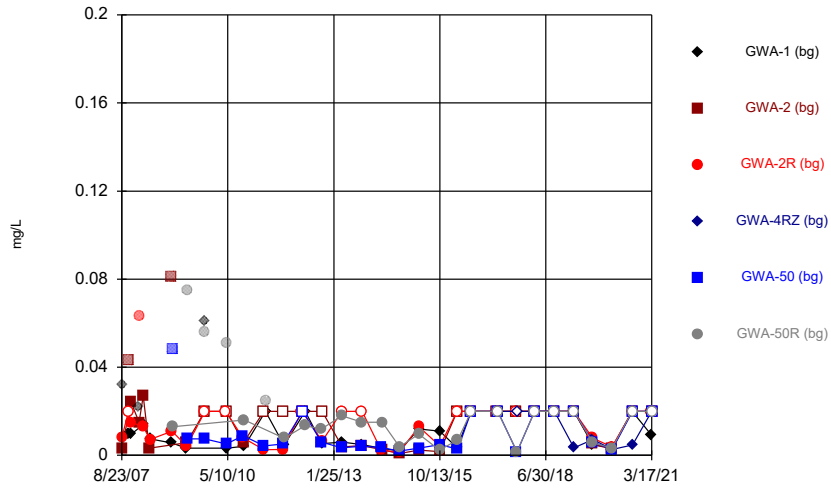
Constituent: Vanadium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



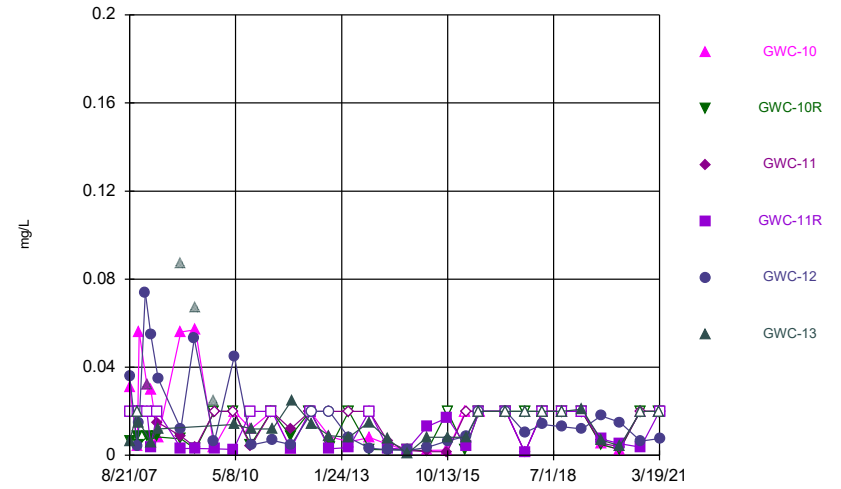
Constituent: Vanadium Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



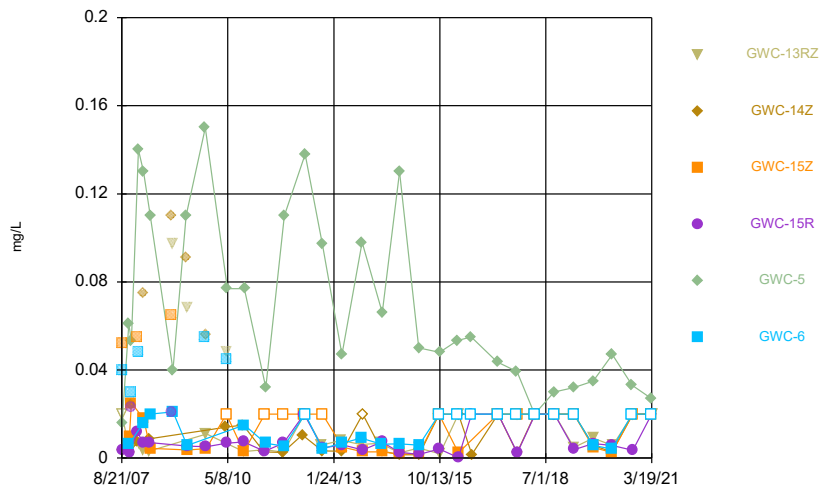
Constituent: Zinc Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



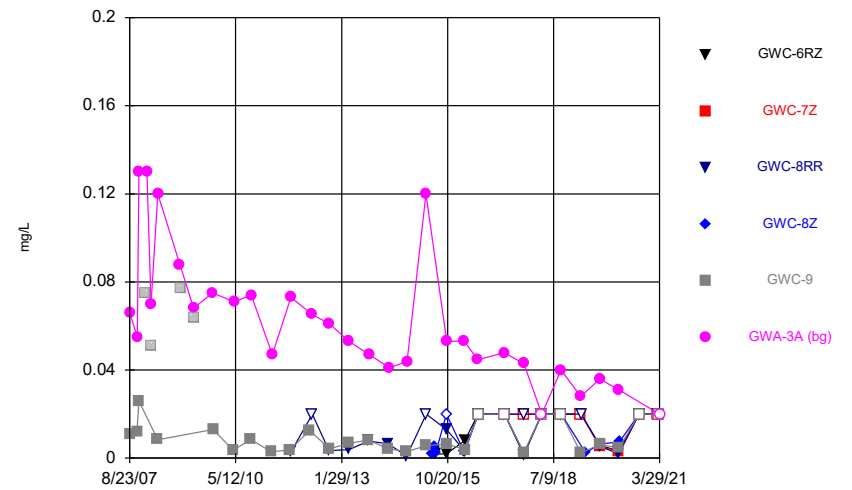
Constituent: Zinc Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Zinc Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series



Constituent: Zinc Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.003	<0.003	<0.003			
10/23/2007	<0.003					
10/24/2007		<0.003	<0.003			
11/18/2007	<0.003	<0.003	<0.003			
1/30/2008	<0.003					
1/31/2008		<0.003	<0.003			
3/10/2008	<0.003		<0.003			
3/11/2008		<0.003				
5/6/2008		<0.003				
5/13/2008	<0.003		<0.003			
12/4/2008		<0.003	<0.003			
12/5/2008	<0.003					
12/12/2008					<0.003	<0.003
4/15/2009	<0.003					
4/21/2009		<0.003	<0.003			
4/23/2009					<0.003	<0.003
10/6/2009					<0.003	<0.003
10/7/2009	<0.003	<0.003				
10/8/2009			<0.003			
4/21/2010			<0.003			
4/26/2010		<0.003				
4/27/2010					<0.003	
5/3/2010	<0.003					<0.003
9/28/2010			<0.003			
9/30/2010					<0.003	
10/4/2010		<0.003				
10/11/2010						<0.003
10/12/2010	<0.003					
4/12/2011			<0.003			
4/13/2011		<0.003				
4/14/2011					<0.003	
4/27/2011	<0.003					<0.003
10/4/2011			<0.003			
10/5/2011		<0.003			<0.003	
10/17/2011	0.0054					
10/19/2011						<0.003
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	<0.003
10/8/2012	<0.003					
10/9/2012		<0.003	<0.003			
4/9/2013					<0.003	
4/10/2013						<0.003
4/11/2013			0.0075			
4/12/2013	0.0058					
4/15/2013		<0.003				
10/15/2013		<0.003			<0.003	
10/16/2013	0.01 (o)		<0.003			<0.003
4/10/2014			0.0081		<0.003	
4/11/2014	0.005 (J)					

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.003				<0.003
9/30/2014	0.0068	<0.003	0.0022 (J)			
10/1/2014					<0.003	<0.003
3/30/2015	0.0074	<0.003	0.011 (o)		<0.003	<0.003
10/11/2015					<0.003	<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)			
3/28/2016					0.00139 (J)	<0.003
5/19/2016	0.00319		0.00264 (J)			
5/20/2016		<0.003				
5/23/2016					0.000677 (J)	
5/25/2016						<0.003
7/29/2016	0.0025 (J)	<0.003	0.0069			
8/1/2016					<0.003	<0.003
9/22/2016			0.0066			
9/23/2016	0.0051	<0.003				
9/26/2016					<0.003	<0.003
11/9/2016	0.0097 (J)	<0.003				
11/10/2016			<0.003		<0.003	
11/11/2016						<0.003
1/30/2017	0.0032				<0.003	<0.003
1/31/2017		<0.003	0.0064			
2/22/2017				0.0018 (J)		
3/30/2017	0.0028 (J)	<0.003				
4/3/2017			0.0049			<0.003
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	<0.003
10/3/2017				<0.003		
3/16/2018	0.0014 (J)		0.021 (o)		<0.003	<0.003
3/19/2018		<0.003				
3/21/2018				<0.003		
9/14/2018		<0.003	0.0054			
9/17/2018	0.00105 (JD)				<0.003	
9/18/2018				<0.003		<0.003
3/19/2019			0.0019 (J)		<0.003	<0.003
3/20/2019	<0.003	<0.003				
3/21/2019				<0.003		
9/12/2019	0.0037	<0.003 (D)		0.00052 (J)		<0.003
9/13/2019			0.0044		<0.003	
3/11/2020	0.00079 (J)	<0.003	0.002 (J)		0.0005 (J)	<0.003
3/12/2020				0.0017 (J)		
9/15/2020	0.0061	<0.003	0.0037			0.00048 (J)
9/16/2020				<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				0.00087 (J)		
3/16/2021	0.0014 (J)		0.005	0.00082 (J)		
3/17/2021		<0.003			<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/18/2007			<0.003	<0.003		
11/19/2007					<0.003	<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		
1/31/2008						<0.003
3/5/2008			<0.003		<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					<0.003
5/13/2008					<0.003	
12/13/2008	<0.003				<0.003	<0.003
12/14/2008		<0.003	<0.003	<0.003		
4/16/2009					<0.003	
4/28/2009						<0.003
4/29/2009	<0.003	<0.003	<0.003	<0.003		
10/20/2009	<0.003					
10/21/2009		<0.003			<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	
4/28/2010						<0.003
9/28/2010		<0.003	<0.003			
9/29/2010	<0.003			<0.003		
10/5/2010					<0.003	<0.003
4/12/2011		<0.003	<0.003			
4/13/2011	<0.003			<0.003		
4/19/2011					<0.003	<0.003
10/4/2011		<0.003	<0.003	<0.003		
10/5/2011	<0.003					
10/12/2011					<0.003	
10/18/2011						<0.003
4/3/2012		<0.003	<0.003			
4/4/2012	<0.003			<0.003		
4/24/2012					<0.003	
4/25/2012						<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	<0.003
4/3/2013	<0.003	<0.003	<0.003	<0.003		
10/8/2013						<0.003
10/9/2013			<0.003	<0.003	<0.003	
10/15/2013	<0.003	<0.003				
4/1/2014					<0.003	<0.003
4/2/2014			<0.003	<0.003		
4/9/2014	<0.003	<0.003				
10/1/2014						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.003	<0.003	<0.003	0.0044 (J)	<0.003	
4/1/2015			<0.003	0.0087 (o)	<0.003	<0.003
4/2/2015	<0.003	<0.003				
10/10/2015	<0.003					
10/11/2015			<0.003	0.007 (o)		
10/12/2015		<0.003				
10/14/2015					<0.003	
10/15/2015						<0.003
3/31/2016	<0.003	<0.003				
4/4/2016			<0.003	0.00252 (J)	<0.003	<0.003
5/26/2016	<0.003	0.000659 (J)	0.000722 (J)	0.00351		
5/27/2016					<0.003	
5/31/2016						<0.003
8/3/2016		<0.003	<0.003		<0.003	
8/4/2016				<0.003		<0.003
8/5/2016	<0.003					
9/28/2016	<0.003	0.0037 (o)	<0.003	0.0012 (J)		
9/29/2016						<0.003
9/30/2016					<0.003	
11/22/2016	<0.003	<0.003	<0.003	0.0042	<0.003	
11/28/2016						<0.003
2/7/2017	<0.003	<0.003				
2/8/2017			<0.003	<0.003		
2/9/2017						<0.003
2/13/2017					<0.003	
4/10/2017	<0.003	<0.003	<0.003	<0.003		
4/11/2017					<0.003	
4/12/2017						<0.003
6/14/2017	<0.003	<0.003			<0.003	
6/15/2017			<0.003	<0.003		
6/16/2017						<0.003
10/4/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/9/2017						<0.003
3/20/2018	<0.003					
3/21/2018		<0.003	<0.003			<0.003
3/22/2018				<0.003	<0.003	
9/18/2018	<0.003	<0.003	<0.003	<0.003	<0.003	
9/19/2018						<0.003
3/22/2019	<0.003	<0.003				
3/23/2019			0.00094 (J)	<0.003	<0.003	<0.003
9/17/2019	<0.003	<0.003	0.00041 (J)	0.0013 (J)	<0.003 (D)	
9/18/2019						0.0012 (J)
3/12/2020	<0.003	<0.003	0.0013 (J)	0.001 (J)	<0.003	
3/13/2020						0.0023 (J)
9/17/2020	<0.003	<0.003				
9/21/2020			0.00091 (J)	0.0053	<0.003	
9/22/2020						<0.003
3/18/2021	<0.003	<0.003				0.00078 (J)
3/19/2021			0.00032 (J)	0.012	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.003					
8/22/2007						<0.003
8/23/2007				<0.003	<0.003	
8/24/2007		0.005	<0.003			
10/25/2007					<0.003	<0.003
11/1/2007	<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	
11/20/2007						<0.003
1/15/2008		<0.003	<0.003	<0.003		
1/23/2008					<0.003	<0.003
1/31/2008	<0.003					
3/5/2008	<0.003	<0.003				
3/6/2008				<0.003		
3/10/2008			<0.003			
3/11/2008					<0.003	<0.003
5/7/2008	<0.003	<0.003		<0.003		
5/12/2008					<0.003	
5/13/2008			<0.003			
5/14/2008						<0.003
12/2/2008		<0.003	<0.003	<0.003		
12/11/2008					<0.003	<0.003
12/12/2008	<0.003					
4/15/2009					<0.003	
4/16/2009		<0.003				
4/23/2009						<0.003
4/28/2009			<0.003	<0.003		
4/29/2009	<0.003					
10/9/2009					<0.003	<0.003
10/19/2009				<0.003		
10/20/2009		<0.003	<0.003			
10/21/2009	<0.003					
4/20/2010		<0.003				
4/27/2010			<0.003	<0.003		
4/28/2010	<0.003					
5/4/2010					<0.003	<0.003
9/29/2010		<0.003				
10/4/2010				<0.003		
10/5/2010			<0.003			
10/6/2010	<0.003					
10/11/2010						<0.003
10/12/2010					<0.003	
4/12/2011		<0.003				
4/18/2011				<0.003		
4/19/2011			<0.003			
4/20/2011	<0.003					
4/26/2011						<0.003
4/28/2011					<0.003	
10/4/2011		<0.003				
10/12/2011	<0.003		<0.003	0.0052		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.003	<0.003
10/2/2012	<0.003					
10/8/2012						<0.003
10/9/2012					<0.003	
10/10/2012		<0.003	<0.003	<0.003		
4/2/2013	0.007 (o)					
4/10/2013						<0.003
4/11/2013					<0.003	
4/15/2013		<0.003		<0.003		
4/16/2013			0.0053			
10/8/2013	0.01 (o)					<0.003
10/16/2013					<0.003	
10/22/2013		<0.003	<0.003	<0.003		
4/1/2014	0.011 (o)					
4/14/2014						<0.003
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	0.018 (o)					
10/3/2014					<0.003	<0.003
3/31/2015	0.011 (o)				<0.003	
4/1/2015						0.0035 (J)
4/3/2015		<0.003	<0.003	0.0072		
10/6/2015			0.0025 (J)			
10/7/2015		<0.003		0.0045 (J)		
10/9/2015						<0.003
10/12/2015					<0.003	
10/14/2015	0.0083 (o)					
3/28/2016					0.0284 (o)	
3/29/2016						<0.003
4/4/2016	0.00447					
4/5/2016		<0.003	0.053 (o)	0.00727		
5/24/2016						<0.003
5/25/2016					0.000686 (J)	
5/31/2016			0.00088 (J)	0.00649		
6/1/2016	0.00377	0.000895 (J)				
8/1/2016					<0.003	<0.003
8/4/2016				0.0038		
8/9/2016		0.0017 (JD)				
9/26/2016						<0.003
9/27/2016					<0.003	
9/29/2016				0.0106		
11/11/2016					<0.003	
11/18/2016						<0.003
11/23/2016			<0.003	0.0098		
11/28/2016		<0.003				
1/31/2017					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.003
2/9/2017		<0.003				
2/10/2017			<0.003	0.0014 (J)		
2/22/2017	0.0044					
4/3/2017					<0.003	
4/6/2017						0.001 (J)
4/11/2017	0.0019 (J)	<0.003	<0.003			
4/12/2017				0.0026 (J)		
6/12/2017					<0.003	
6/13/2017						<0.003
6/14/2017		0.0006 (J)				
6/15/2017			<0.003	<0.003		
6/16/2017	<0.003					
7/12/2017	0.0018 (J)	<0.003	<0.003			
7/26/2017			<0.003			
7/28/2017	0.0011 (J)					
8/10/2017	0.0012 (J)					
10/3/2017					<0.003	<0.003
10/5/2017		<0.003				
10/6/2017	0.0013 (J)		<0.003	0.0008 (J)		
3/19/2018					<0.003	<0.003
3/22/2018		<0.003				
3/23/2018	0.0015 (J)		0.00089 (J)	0.001 (J)		
9/17/2018					<0.003	<0.003
9/19/2018		<0.003	<0.003	0.0011 (J)		
9/20/2018	0.0013 (J)					
3/20/2019					<0.003	
3/21/2019						<0.003
3/22/2019	0.0014 (J)	<0.003	<0.003			
3/25/2019				<0.003		
9/16/2019					<0.003	<0.003
9/17/2019		<0.003	<0.003	0.0017 (J)		
9/18/2019	0.00077 (X)					
3/12/2020						0.00052 (J)
3/13/2020		0.00053 (J)	<0.003	0.00056 (J)		
3/16/2020					0.00031 (J)	
3/17/2020	0.0009 (J)					
9/16/2020					<0.003	<0.003
9/21/2020		<0.003	<0.003	0.0021 (J)		
9/22/2020	0.00079 (J)					
3/17/2021					<0.003	<0.003
3/18/2021		<0.003	<0.003	0.00045 (J)		
3/19/2021	0.0011 (J)					

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.003	<0.003
11/1/2007					<0.003	
11/2/2007						<0.003
11/18/2007						<0.003
11/19/2007					<0.003	
1/15/2008					<0.003	
1/31/2008						<0.003
3/6/2008					<0.003	
3/11/2008						<0.003
5/13/2008					<0.003	
5/14/2008						<0.003
12/5/2008						<0.003
12/12/2008					<0.003	
4/15/2009						<0.003
4/16/2009					<0.003	
10/8/2009						<0.003
10/13/2009					<0.003	
4/21/2010					<0.003	
4/28/2010						<0.003
9/29/2010					<0.003	
10/6/2010						<0.003
4/13/2011					<0.003	
4/21/2011						<0.003
10/5/2011					<0.003	
10/13/2011						<0.003
10/18/2011			<0.003			
4/4/2012					<0.003	
4/30/2012			<0.003			
5/1/2012						<0.003
10/3/2012			<0.003			
10/8/2012					<0.003	
10/9/2012						<0.003
4/8/2013			<0.003		<0.003	
4/11/2013						<0.003
10/9/2013			<0.003		<0.003	
10/16/2013						<0.003
4/9/2014					<0.003	
4/10/2014			<0.003			
4/23/2014						<0.003
9/30/2014					<0.003	
10/2/2014			0.0025 (J)			
10/4/2014						0.0031 (J)
3/31/2015						0.0068
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					
10/10/2015				<0.003 (D)		
10/12/2015						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.003		
3/23/2016						0.0035
3/29/2016	0.0364 (o)					
3/30/2016			<0.003		<0.003	
5/23/2016						<0.003
5/24/2016	<0.003		<0.003			
5/25/2016				<0.003		
5/26/2016					<0.003	
5/31/2016		<0.003				
7/29/2016						0.0029 (J)
8/1/2016	<0.003					
8/2/2016		<0.003	<0.003	<0.003		
8/5/2016					<0.003	
9/22/2016						0.0041
9/26/2016	<0.003			<0.003		
9/27/2016		<0.003	<0.003			
9/28/2016					<0.003	
11/10/2016						0.0048 (J)
11/14/2016	<0.003					
11/21/2016		<0.003		<0.003	<0.003	
11/22/2016			<0.003			
1/31/2017						<0.003
2/1/2017	<0.003	<0.003				
2/3/2017				<0.003		
2/6/2017			0.0015 (J)		<0.003	
3/30/2017						0.001 (J)
4/6/2017	0.0006 (J)	<0.003	0.0007 (J)		<0.003	
4/7/2017				<0.003		
6/12/2017						<0.003
6/13/2017	<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	
10/4/2017			<0.003			0.0009 (J)
3/19/2018						0.0019 (J)
3/20/2018	<0.003	<0.003		<0.003	0.001 (J)	
3/21/2018			<0.003			
9/17/2018	0.0023 (J)					0.0011 (J)
9/18/2018		<0.003	<0.003	<0.003	<0.003 (D)	
3/20/2019						0.0019 (J)
3/21/2019	<0.003	<0.003			<0.003	
3/27/2019			<0.003			
5/6/2019				<0.003		
9/13/2019		0.002 (J)				0.0013 (J)
9/16/2019	<0.003		<0.003 (D)	<0.003	<0.003	
3/11/2020						0.0045
3/12/2020	0.0011 (J)	0.00066 (J)	0.00043 (J)		<0.003	
3/16/2020				<0.003		
9/16/2020	<0.003	0.0012 (J)				
9/17/2020			0.00082 (J)	<0.003	<0.003	
3/17/2021	<0.003	0.00099 (J)	<0.003			
3/18/2021				<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.005	<0.005	<0.005			
10/23/2007	<0.005					
10/24/2007		<0.005	<0.005			
11/18/2007	<0.005	<0.005	<0.005			
1/30/2008	<0.005					
1/31/2008		<0.005	0.005			
3/10/2008	<0.005		<0.005			
3/11/2008		<0.005				
5/6/2008		<0.005				
5/13/2008	<0.005		<0.005			
12/4/2008		0.012 (o)	<0.005			
12/5/2008	<0.005					
12/12/2008					<0.005	<0.005
4/15/2009	<0.005					
4/21/2009		<0.005	<0.005			
4/23/2009					<0.005	<0.005
10/6/2009					<0.005	<0.005
10/7/2009	<0.005	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010					<0.005	
5/3/2010	<0.005					0.012 (o)
9/28/2010			<0.005			
9/30/2010					<0.005	
10/4/2010		<0.005				
10/11/2010						<0.005
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011					<0.005	
4/27/2011	<0.005					<0.005
10/4/2011			<0.005			
10/5/2011		<0.005			<0.005	
10/17/2011	<0.005					
10/19/2011						<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	<0.005
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013					<0.005	
4/10/2013						<0.005
4/11/2013			<0.005			
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005			<0.005	
10/16/2013	<0.005		0.0056			<0.005
4/10/2014			<0.005		<0.005	
4/11/2014	<0.005					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				<0.005
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					<0.005	<0.005
3/30/2015	<0.005	<0.005	<0.005		<0.005	<0.005
10/11/2015					<0.005	<0.005
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	<0.005
5/19/2016	<0.005		<0.005			
5/20/2016		<0.005				
5/23/2016					<0.005	
5/25/2016						<0.005
7/29/2016	<0.005	<0.005	0.0008 (J)			
8/1/2016					<0.005	<0.005
9/22/2016			<0.005			
9/23/2016	<0.005	<0.005				
9/26/2016					<0.005	<0.005
11/9/2016	<0.005	<0.005				
11/10/2016			<0.005		<0.005	
11/11/2016						<0.005
1/30/2017	<0.005				<0.005	<0.005
1/31/2017		<0.005	<0.005			
2/22/2017				0.0019 (J)		
3/30/2017	<0.005	<0.005				
4/3/2017			0.0007 (J)			<0.005
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	<0.005
10/3/2017				0.0005 (J)		
3/16/2018	0.00085 (J)		0.001 (J)		<0.005	<0.005
3/19/2018		<0.005				
3/21/2018				0.0012 (J)		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				<0.005	
9/18/2018				<0.005		<0.005
3/19/2019			<0.005		<0.005	<0.005
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	0.0004 (J)	<0.005 (D)		0.0006 (J)		<0.005
9/13/2019			0.00051 (J)		<0.005	
3/11/2020	0.00088 (J)	<0.005	0.00044 (J)		<0.005	<0.005
3/12/2020				0.0033 (J)		
9/15/2020	<0.005	<0.005	0.00081 (J)			<0.005
9/16/2020				<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				0.0011 (J)		
3/16/2021	<0.005		<0.005	0.00098 (J)		
3/17/2021		<0.005			<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/18/2007			<0.005	<0.005		
11/19/2007					<0.005	<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		
1/31/2008						<0.005
3/5/2008			<0.005		<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					<0.005
5/13/2008					<0.005	
12/13/2008	0.015 (o)				0.012	0.0096
12/14/2008		<0.005	<0.005	<0.005		
4/16/2009					0.008	
4/28/2009						<0.005
4/29/2009	<0.005	<0.005	<0.005	0.0057		
10/20/2009	<0.005					
10/21/2009		<0.005			0.0081	<0.005
10/22/2009			<0.005	<0.005		
4/21/2010		<0.005	<0.005	<0.005		
4/26/2010	<0.005					
4/28/2010						<0.005
9/28/2010		<0.005	<0.005			
9/29/2010	<0.005			<0.005		
10/5/2010					0.0067	<0.005
4/12/2011		<0.005	<0.005			
4/13/2011	<0.005			<0.005		
4/19/2011					<0.005	<0.005
10/4/2011		<0.005	<0.005	<0.005		
10/5/2011	<0.005					
10/12/2011					<0.005	
10/18/2011						<0.005
4/3/2012		<0.005	<0.005			
4/4/2012	<0.005			<0.005		
4/24/2012					0.0086	
4/25/2012						<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	<0.005
4/3/2013	<0.005	<0.005	<0.005	<0.005		
10/8/2013						<0.005
10/9/2013			<0.005	0.006	0.0094	
10/15/2013	<0.005	<0.005				
4/1/2014					0.0097	<0.005
4/2/2014			<0.005	0.005 (J)		
4/9/2014	<0.005	<0.005				
10/1/2014						0.0022 (J)
10/2/2014	<0.005	<0.005	<0.005	0.0036 (J)	0.0055	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
4/1/2015			<0.005	0.0077	0.011	<0.005
4/2/2015	<0.005	<0.005				
10/10/2015	<0.005					
10/11/2015			<0.005	0.0071		
10/12/2015		<0.005				
10/14/2015					0.007	
10/15/2015						<0.005
3/31/2016	<0.005	<0.005				
4/4/2016			<0.005	0.00315 (J)	0.00645	0.00124 (J)
5/26/2016	<0.005	<0.005	<0.005	0.00313 (J)		
5/27/2016					0.00692	
5/31/2016						<0.005
8/3/2016		<0.005	<0.005		0.0068	
8/4/2016				0.0032 (J)		<0.005
8/5/2016	<0.005					
9/28/2016	<0.005	<0.005	<0.005	0.0029 (J)		
9/29/2016						<0.005
9/30/2016					0.0065	
11/22/2016	<0.005	<0.005	<0.005	0.0048 (J)	0.0066	
11/28/2016						<0.005
2/7/2017	<0.005	<0.005				
2/8/2017			<0.005	0.0022 (J)		
2/9/2017						<0.005
2/13/2017					0.0092	
4/10/2017	<0.005	<0.005	<0.005	0.002 (J)		
4/11/2017					0.0051	
4/12/2017						0.001 (J)
6/14/2017	<0.005	<0.005			0.0056	
6/15/2017			<0.005	0.0014 (J)		
6/16/2017						0.0007 (J)
10/4/2017	0.0006 (J)	<0.005	<0.005	0.002 (J)	0.0068	
10/9/2017						0.0006 (J)
3/20/2018	0.00079 (J)					
3/21/2018		<0.005	0.00058 (J)			0.0013 (J)
3/22/2018				0.0022 (J)	0.0055	
9/18/2018	<0.005	<0.005	<0.005	<0.005	0.0064	
9/19/2018						<0.005
3/22/2019	<0.005	<0.005				
3/23/2019			<0.005	0.0016 (J)	0.0055	0.00067 (J)
9/17/2019	<0.005	<0.005	<0.005	0.0016 (J)	0.00465 (JD)	
9/18/2019						0.00052 (J)
3/12/2020	<0.005	<0.005	<0.005	0.0012 (J)	0.0053	
3/13/2020						0.00096 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005	0.0012 (J)	0.0065	
9/22/2020						0.00098 (J)
3/18/2021	<0.005	<0.005				<0.005
3/19/2021			<0.005	0.0013 (J)	0.0052	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						<0.005
8/23/2007				<0.005	<0.005	
8/24/2007		<0.005	<0.005			
10/25/2007					<0.005	<0.005
11/1/2007	<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	
11/20/2007						<0.005
1/15/2008		<0.005	0.0077	<0.005		
1/23/2008					<0.005	<0.005
1/31/2008	<0.005					
3/5/2008	<0.005	0.0079				
3/6/2008				<0.005		
3/10/2008			<0.005			
3/11/2008					<0.005	<0.005
5/7/2008	<0.005	<0.005		<0.005		
5/12/2008					<0.005	
5/13/2008			<0.005			
5/14/2008						<0.005
12/2/2008		0.014 (o)	0.0061	<0.005		
12/11/2008					<0.005	<0.005
12/12/2008	0.02 (o)					
4/15/2009					<0.005	
4/16/2009		0.0069				
4/23/2009						<0.005
4/28/2009			<0.005	<0.005		
4/29/2009	0.0066					
10/9/2009					<0.005	<0.005
10/19/2009				<0.005		
10/20/2009		0.0054	<0.005			
10/21/2009	<0.005					
4/20/2010		<0.005				
4/27/2010			<0.005	<0.005		
4/28/2010	0.016 (o)					
5/4/2010					<0.005	0.014 (o)
9/29/2010		<0.005				
10/4/2010				<0.005		
10/5/2010			<0.005			
10/6/2010	<0.005					
10/11/2010						<0.005
10/12/2010					<0.005	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			<0.005			
4/20/2011	<0.005					
4/26/2011						<0.005
4/28/2011					<0.005	
10/4/2011		<0.005				
10/12/2011	<0.005		<0.005	<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.005	<0.005
10/2/2012	<0.005					
10/8/2012						<0.005
10/9/2012					<0.005	
10/10/2012		<0.005	<0.005	<0.005		
4/2/2013	<0.005					
4/10/2013						<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					
4/14/2014						<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	0.0021 (J)					
10/3/2014					<0.005	<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		
10/9/2015						<0.005
10/12/2015					<0.005	
10/14/2015	<0.005					
3/28/2016					<0.005	
3/29/2016						<0.005
4/4/2016	0.00144 (JD)					
4/5/2016		<0.005	0.00105 (J)	<0.005		
5/24/2016						<0.005
5/25/2016					<0.005	
5/31/2016			0.00261 (J)	<0.005		
6/1/2016	0.0011 (JD)	<0.005				
8/1/2016					<0.005	<0.005
8/4/2016				<0.005		
8/9/2016		<0.005				
9/26/2016						<0.005
9/27/2016					<0.005	
9/29/2016				<0.005		
11/11/2016					<0.005	
11/18/2016						<0.005
11/23/2016			<0.005	<0.005		
11/28/2016		<0.005				
1/31/2017					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.005
2/9/2017		<0.005				
2/10/2017			<0.005	<0.005		
2/22/2017	<0.005					
4/3/2017					<0.005	
4/6/2017						0.0006 (J)
4/11/2017	0.0011 (JD)	<0.005	0.0007 (J)			
4/12/2017				0.0005 (J)		
6/12/2017					0.0006 (J)	
6/13/2017						<0.005
6/14/2017		<0.005				
6/15/2017			<0.005	<0.005		
6/16/2017	0.0043 (JD)					
7/12/2017	0.0013 (JD)	<0.005	<0.005			
7/26/2017			<0.005			
7/28/2017	0.0013 (J)					
8/10/2017	0.0011 (J)					
10/3/2017					<0.005	<0.005
10/5/2017		<0.005				
10/6/2017	0.0013 (JD)		0.0009 (J)	0.0008 (J)		
3/19/2018					<0.005	0.00089 (J)
3/22/2018		0.00096 (J)				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					<0.005	<0.005
9/19/2018		<0.005	<0.005	<0.005		
9/20/2018	<0.005					
3/20/2019					<0.005	
3/21/2019						<0.005
3/22/2019	0.00097 (J)	<0.005	<0.005			
3/25/2019				<0.005		
9/16/2019					<0.005	0.00071 (J)
9/17/2019		<0.005	<0.005	<0.005		
9/18/2019	0.00045 (X)					
3/12/2020						0.00055 (J)
3/13/2020		<0.005	0.00052 (J)	0.00047 (J)		
3/16/2020					<0.005	
3/17/2020	0.00067 (J)					
9/16/2020					<0.005	<0.005
9/21/2020		<0.005	<0.005	<0.005		
9/22/2020	0.00086 (J)					
3/17/2021					<0.005	0.0013 (J)
3/18/2021		<0.005	<0.005	<0.005		
3/19/2021	0.00084 (J)					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.005	<0.005
11/1/2007					<0.005	
11/2/2007						<0.005
11/18/2007						<0.005
11/19/2007					<0.005	
1/15/2008					0.0086	
1/31/2008						<0.005
3/6/2008					<0.005	
3/11/2008						<0.005
5/13/2008					<0.005	
5/14/2008						<0.005
12/5/2008						<0.005
12/12/2008					0.0065	
4/15/2009						<0.005
4/16/2009					<0.005	
10/8/2009						<0.005
10/13/2009					<0.005	
4/21/2010					<0.005	
4/28/2010						<0.005
9/29/2010					<0.005	
10/6/2010						<0.005
4/13/2011					<0.005	
4/21/2011						<0.005
10/5/2011					<0.005	
10/13/2011						<0.005
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						<0.005
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						<0.005
4/8/2013			<0.005		<0.005	
4/11/2013						<0.005
10/9/2013			<0.005		<0.005	
10/16/2013						<0.005
4/9/2014					<0.005	
4/10/2014			<0.005			
4/23/2014						<0.005
9/30/2014					<0.005	
10/2/2014			<0.005			
10/4/2014						<0.005
3/31/2015						<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					
10/10/2015				<0.005 (D)		
10/12/2015						<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.005		
3/23/2016						<0.005
3/29/2016	<0.005					
3/30/2016			<0.005		0.0241 (o)	
5/23/2016						<0.005
5/24/2016	<0.005		<0.005			
5/25/2016				<0.005		
5/26/2016					<0.005	
5/31/2016		<0.005				
7/29/2016						<0.005
8/1/2016	<0.005					
8/2/2016		0.0031 (J)	<0.005	<0.005		
8/5/2016					<0.005	
9/22/2016						<0.005
9/26/2016	<0.005			<0.005		
9/27/2016		0.0028 (J)	<0.005			
9/28/2016					<0.005	
11/10/2016						<0.005
11/14/2016	<0.005					
11/21/2016		0.0031 (J)		<0.005	<0.005	
11/22/2016			<0.005			
1/31/2017						<0.005
2/1/2017	<0.005	0.0031 (J)				
2/3/2017				<0.005		
2/6/2017			<0.005		<0.005	
3/30/2017						<0.005
4/6/2017	<0.005	0.003 (J)	<0.005		<0.005	
4/7/2017				<0.005		
6/12/2017						<0.005
6/13/2017	<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	0.0018 (J)		<0.005	<0.005	
10/4/2017			<0.005			<0.005
3/19/2018						<0.005
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)	
3/20/2019						<0.005
3/21/2019	<0.005	0.00077 (J)			<0.005	
3/27/2019			<0.005			
5/6/2019				0.00063 (J)		
9/13/2019		0.0017 (J)				<0.005
9/16/2019	0.00038 (J)		0.0004 (JD)	0.00043 (J)	0.00044 (J)	
3/11/2020						<0.005
3/12/2020	<0.005	0.00044 (J)	0.00039 (J)		<0.005	
3/16/2020				<0.005		
9/16/2020	<0.005	<0.005				
9/17/2020			<0.005	<0.005	<0.005	
3/17/2021	<0.005	<0.005	<0.005			
3/18/2021				0.00082 (J)	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						0.001 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	0.02	0.0073	0.0098			
10/23/2007	0.039					
10/24/2007		0.027	0.015			
11/18/2007	0.04 (J)	0.13 (o)	0.011			
1/30/2008	0.04					
1/31/2008		0.0077	0.13 (O)			
3/10/2008	0.033		0.0078			
3/11/2008		0.015				
5/6/2008		0.017				
5/13/2008	0.03		0.0077			
12/4/2008		0.14 (o)	0.0089			
12/5/2008	0.0087					
12/12/2008				0.098 (o)		0.016
4/15/2009	0.023					
4/21/2009		0.018	0.013			
4/23/2009					0.013	0.14 (O)
10/6/2009					0.011	0.12 (O)
10/7/2009	0.15 (o)	0.014				
10/8/2009			0.008			
4/21/2010			0.01			
4/26/2010		0.017				
4/27/2010				0.016		
5/3/2010	0.025					0.12 (O)
9/28/2010			0.0036			
9/30/2010				0.013		
10/4/2010		0.011				
10/11/2010						0.019
10/12/2010	0.029					
4/12/2011			0.0084			
4/13/2011		0.026				
4/14/2011				0.011		
4/27/2011	0.026					0.02
10/4/2011			0.0066			
10/5/2011		0.021		0.015		
10/17/2011	0.021					
10/19/2011						0.014
4/3/2012			0.0625 (O)			
4/11/2012		0.0311		0.0102		
5/1/2012						0.0199
5/2/2012	0.0212					
10/2/2012				0.0091		0.015
10/8/2012	0.019					
10/9/2012		0.018	0.01			
4/9/2013				0.01		
4/10/2013						0.016
4/11/2013			0.021			
4/12/2013	0.022					
4/15/2013		0.056				
10/15/2013		0.018		0.0098		
10/16/2013	0.02		0.033			0.017
4/10/2014			0.021	0.011		
4/11/2014	0.018					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		0.035				0.017
9/30/2014	0.013	0.0041	0.0062			
10/1/2014					0.0033	0.013
3/30/2015	0.021	0.036	0.011		0.0043	0.014
10/11/2015					0.0038	0.0093
10/13/2015	0.012	0.0048	0.0065			
3/22/2016	0.0182					
3/23/2016		0.0271	0.0206			
3/28/2016					0.0133	0.0155
5/19/2016	0.0193		0.0109			
5/20/2016		0.0206				
5/23/2016					0.0109	
5/25/2016						0.0143
7/29/2016	0.0174	0.0275	0.007 (J)			
8/1/2016					0.0058 (J)	0.0129
9/22/2016			0.0071 (J)			
9/23/2016	0.0168	0.0384				
9/26/2016					0.0092 (J)	0.0177
11/9/2016	0.0171	0.0266				
11/10/2016			0.0052 (J)		0.0083 (J)	
11/11/2016						0.0117
1/30/2017	0.019				0.0117	0.0113
1/31/2017		0.0094 (J)	0.0076 (J)			
2/22/2017				0.0273		
3/30/2017	0.0184	0.0262				
4/3/2017			0.007 (J)			0.0166
4/7/2017				0.024	0.0109	
6/9/2017	0.0174		0.0074 (J)			
6/12/2017		0.0288			<0.01	0.017
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	0.0157
10/3/2017				0.0294		
3/16/2018	0.016		0.015		0.0084 (J)	0.012
3/19/2018		0.037				
3/21/2018				0.03		
9/14/2018		0.0059 (J)	0.0095 (J)			
9/17/2018	0.015 (D)				0.01	
9/18/2018				0.032		0.0099 (J)
3/19/2019			0.024		0.012	0.013
3/20/2019	0.019	0.0072 (J)				
3/21/2019				0.04		
9/12/2019	0.018	0.0058 (JD)		0.034		0.011
9/13/2019			0.012		0.0088 (J)	
3/11/2020	0.016	0.035	0.027		0.0077 (J)	0.0095 (J)
3/12/2020				0.053		
9/15/2020	0.019	0.019	0.013			0.0089 (J)
9/16/2020					0.0081 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:33 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				0.036		
3/16/2021	0.018		0.013	0.042		
3/17/2021		0.025			0.0074	0.012

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	0.021	0.027	0.034	0.01	0.023	0.065
11/1/2007	0.017	0.024	0.036	0.012	0.034	0.019
11/18/2007			0.036	0.011		
11/19/2007					0.043	0.015
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		
1/31/2008						0.022
3/5/2008			0.018		0.07	0.012
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					0.014
5/13/2008					0.039	
12/13/2008	0.12 (o)				0.13 (o)	0.11 (o)
12/14/2008		0.02	0.12 (o)	0.013		
4/16/2009					0.13 (o)	
4/28/2009						0.12 (o)
4/29/2009	0.11 (o)	0.017	0.0079	0.0098		
10/20/2009	0.016					
10/21/2009		0.021			0.033	0.023
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)	
4/28/2010						0.019
9/28/2010		0.018	0.0068			
9/29/2010	0.016			0.0049		
10/5/2010					0.027	0.018
4/12/2011		0.017	0.0089			
4/13/2011	0.012			0.0074		
4/19/2011					0.025	0.019
10/4/2011		0.022	0.012	0.0062		
10/5/2011	0.014					
10/12/2011					0.025	
10/18/2011						0.025
4/3/2012		0.0212	0.0169			
4/4/2012	0.017			0.0091		
4/24/2012					0.027	
4/25/2012						0.024
10/2/2012					0.013	0.019
10/3/2012	0.015		0.03	0.0089		
10/8/2012		0.019				
4/2/2013					0.031	0.021
4/3/2013	0.018	0.021	0.008	0.012		
10/8/2013						0.027
10/9/2013			0.0093	0.0079	0.025	
10/15/2013	0.018	0.022				
4/1/2014					0.023	0.023
4/2/2014			0.031	0.0086		
4/9/2014	0.019	0.02				
10/1/2014						0.014

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:33 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	0.016	0.023	0.035	0.01	0.025	
4/1/2015			0.013	0.019	0.025	0.027
4/2/2015	0.017	0.022				
10/10/2015	0.014					
10/11/2015			0.0079	0.014		
10/12/2015		0.028				
10/14/2015					0.027	
10/15/2015						0.033
3/31/2016	0.0179	0.0273				
4/4/2016			0.0119	0.0176	0.0285	0.027
5/26/2016	0.0186	0.0305	0.0127	0.0195		
5/27/2016					0.0257	
5/31/2016						0.0283
8/3/2016		0.0284	0.0121		0.0237	
8/4/2016				0.0151		0.0358
8/5/2016	0.0138					
9/28/2016	0.0153	0.036	0.0112	0.0132		
9/29/2016						0.0437
9/30/2016					0.0279	
11/22/2016	0.0184 (J)	0.0341 (J)	0.0155 (J)	0.0186 (J)	0.0286 (J)	
11/28/2016						0.0419 (J)
2/7/2017	0.0215	0.0309				
2/8/2017			0.0115	0.015		
2/9/2017						0.0472
2/13/2017					0.0313	
4/10/2017	0.0247	0.0235	<0.01	0.0172		
4/11/2017					0.0254	
4/12/2017						0.0383
6/14/2017	0.0227	0.0258			0.0241	
6/15/2017			0.0112	0.0167		
6/16/2017						0.0457
10/4/2017	0.0172	0.0234	0.0093 (J)	0.0156	0.0256	
10/9/2017						0.0406
3/20/2018	0.021					
3/21/2018		0.022	0.012			0.032
3/22/2018				0.017	0.024	
9/18/2018	0.02	0.03	0.011	0.017	0.025	
9/19/2018						0.034
3/22/2019	0.024	0.022				
3/23/2019			0.0081 (J)	0.019	0.024	0.023
9/17/2019	0.016	0.03	0.011	0.018	0.0245 (D)	
9/18/2019						0.033
3/12/2020	0.026	0.028	0.0086 (J)	0.021	0.023	
3/13/2020						0.023
9/17/2020	0.013	0.022				
9/21/2020			0.0093 (J)	0.016	0.023	
9/22/2020						0.027
3/18/2021	0.025	0.027				0.023
3/19/2021			0.011	0.021	0.024	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	0.0095					
8/22/2007						0.023
8/23/2007				0.015	0.017	
8/24/2007		0.0089	0.017			
10/25/2007					0.023	0.018
11/1/2007	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	0.023				0.024	
11/20/2007						0.1 (o)
1/15/2008		0.013	0.088 (o)	0.022		
1/23/2008					0.028	0.031
1/31/2008	0.028					
3/5/2008	0.022	0.11 (o)				
3/6/2008				0.021		
3/10/2008			0.0077			
3/11/2008					0.022	0.016
5/7/2008	0.019	0.01		0.023		
5/12/2008					0.021	
5/13/2008			0.0055			
5/14/2008						0.024
12/2/2008		0.12 (o)	0.0097	0.024		
12/11/2008					0.022	0.022
12/12/2008	0.19 (O)					
4/15/2009					0.13 (o)	
4/16/2009		0.13 (o)				
4/23/2009						0.012
4/28/2009			0.0042	0.031		
4/29/2009	0.14 (O)					
10/9/2009					0.026	0.11 (o)
10/19/2009				0.027		
10/20/2009		0.05	0.0056			
10/21/2009	0.034					
4/20/2010		0.019				
4/27/2010			0.0039	0.051 (o)		
4/28/2010	0.11 (O)					
5/4/2010					0.018	0.096 (o)
9/29/2010		0.017				
10/4/2010				0.028		
10/5/2010			0.0047			
10/6/2010	0.018					
10/11/2010						0.018
10/12/2010					0.019	
4/12/2011		0.014				
4/18/2011				0.026		
4/19/2011			0.0071			
4/20/2011	0.015					
4/26/2011						0.01
4/28/2011					0.015	
10/4/2011		0.017				
10/12/2011	0.019		0.0098	0.026		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						0.012
10/19/2011					0.016	
4/4/2012		0.0182				
4/23/2012				0.0224		
4/25/2012	0.0158		0.0088			
5/2/2012					0.0191	0.0119
10/2/2012	0.036					
10/8/2012						0.01
10/9/2012					0.019	
10/10/2012		0.048	0.0093	0.024		
4/2/2013	0.039					
4/10/2013						0.013
4/11/2013					0.013	
4/15/2013		0.03		0.029		
4/16/2013			0.0098			
10/8/2013	0.016					0.014
10/16/2013					0.017	
10/22/2013		0.033	0.0097	0.022		
4/1/2014	0.017					
4/14/2014						0.01
4/21/2014		0.033	0.008	0.025		
4/23/2014					0.015	
9/30/2014		0.027	0.0074	0.022		
10/1/2014	0.018					
10/3/2014					0.02	0.014
3/31/2015	0.021				0.014	
4/1/2015						0.013
4/3/2015		0.13 (o)	0.0076	0.022		
10/6/2015			0.0088			
10/7/2015		0.047		0.023		
10/9/2015						0.008
10/12/2015					0.017	
10/14/2015	0.013					
3/28/2016					0.0173	
3/29/2016						0.0239 (J)
4/4/2016	0.0222					
4/5/2016		0.0279	0.00153 (J)	0.0308		
5/24/2016						0.00902 (J)
5/25/2016					0.0175	
5/31/2016			0.00589 (J)	0.0255		
6/1/2016	0.0283	0.0249				
8/1/2016					0.0145	0.0091 (J)
8/4/2016				0.0227		
8/9/2016		0.0268				
9/26/2016						0.0124
9/27/2016					0.0139	
9/29/2016				0.0258		
11/11/2016					0.0135	
11/18/2016						0.0117
11/23/2016			<0.01	0.0263 (J)		
11/28/2016		<0.01				
1/31/2017					0.0153	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						0.0086 (J)
2/9/2017		0.0119				
2/10/2017			0.0233	0.025		
2/22/2017	0.0561					
4/3/2017					0.0135	
4/6/2017						0.0083 (J)
4/11/2017	0.0748	0.0112 (D)	0.0162			
4/12/2017				0.026		
6/12/2017					0.0154	
6/13/2017						<0.01
6/14/2017		<0.01				
6/15/2017			0.0148	0.0244		
6/16/2017	0.0661					
7/12/2017	0.0932	0.0105	0.0166			
7/26/2017			0.0146			
7/28/2017	0.0808					
8/10/2017	0.0743					
10/3/2017					0.0138	0.0084 (J)
10/5/2017		0.0099 (J)				
10/6/2017	0.0699		0.015	0.0254		
12/28/2017	0.082 (Y)					
3/19/2018					0.013	0.0079 (J)
3/22/2018		0.011				
3/23/2018	0.086		0.013	0.021		
9/17/2018					0.014	0.0065 (J)
9/19/2018		0.013	0.015	0.02		
9/20/2018	0.093					
3/20/2019					0.018	
3/21/2019						0.0074 (J)
3/22/2019	0.086	0.014	0.014			
3/25/2019				0.021		
9/16/2019					0.022	0.0075 (J)
9/17/2019		0.015	0.014	0.023		
9/18/2019	0.097					
3/12/2020						0.0075 (J)
3/13/2020		0.017	0.014	0.02		
3/16/2020					0.024	
3/17/2020	0.097					
9/16/2020					0.013	0.0074 (J)
9/21/2020		0.013	0.013	0.021		
9/22/2020	0.095					
3/17/2021					0.014	0.0075
3/18/2021		0.014	0.012	0.02		
3/19/2021	0.086					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					0.043	0.015 (o)
11/1/2007					0.032	
11/2/2007						0.017 (o)
11/18/2007						0.019 (o)
11/19/2007					0.049 (J)	
1/15/2008					0.12 (o)	
1/31/2008						0.011 (o)
3/6/2008					0.075 (o)	
3/11/2008						0.016 (o)
5/13/2008					0.055	
5/14/2008						0.013 (o)
12/5/2008						0.021 (o)
12/12/2008					0.16 (o)	
4/15/2009						0.012 (o)
4/16/2009					0.15 (o)	
10/8/2009						0.011 (o)
10/13/2009					0.05	
4/21/2010					0.039	
4/28/2010						0.0081
9/29/2010					0.033	
10/6/2010						0.0083
4/13/2011					0.033	
4/21/2011						0.0053
10/5/2011					0.035	
10/13/2011						0.0071
10/18/2011			0.015			
4/4/2012					0.0422	
4/30/2012			0.0192			
5/1/2012						0.0067
10/3/2012			0.017			
10/8/2012					0.029	
10/9/2012						0.0055
4/8/2013			0.018		0.042	
4/11/2013						0.0061
10/9/2013			0.021		0.04	
10/16/2013						0.0062
4/9/2014					0.038	
4/10/2014			0.019			
4/23/2014						0.0047
9/30/2014					0.038	
10/2/2014			0.014			
10/4/2014						0.0055
3/31/2015						0.0076
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	0.012					
10/10/2015					0.038 (D)	
10/12/2015						0.0049

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				0.0263		
3/23/2016						0.00742 (J)
3/29/2016	0.000768 (J)					
3/30/2016			0.0163		0.0412	
5/23/2016						0.00532 (J)
5/24/2016	0.00847 (J)		0.0137			
5/25/2016				0.0178		
5/26/2016					0.0357	
5/31/2016		0.0178				
7/29/2016						0.0053 (J)
8/1/2016	0.0086 (J)					
8/2/2016		0.0394	0.0152	0.0265		
8/5/2016					0.03	
9/22/2016						0.0058 (J)
9/26/2016	0.0086 (J)			0.0267		
9/27/2016		0.032	0.0147			
9/28/2016					0.0308	
11/10/2016						0.0051 (J)
11/14/2016	0.0083 (J)					
11/21/2016		0.0316 (J)		0.0309 (J)	0.0356 (J)	
11/22/2016			0.0174 (J)			
1/31/2017						0.0054 (J)
2/1/2017	0.0096 (J)	0.0264				
2/3/2017				0.0289		
2/6/2017			0.0144		0.0391	
3/30/2017						0.0049 (J)
4/6/2017	0.0087 (J)	0.0245	0.0149		0.0402	
4/7/2017				0.029		
6/12/2017						<0.01
6/13/2017	<0.01	0.0247		0.027	0.0394	
6/14/2017			0.0139			
7/14/2017		0.0245				
10/3/2017	0.0098 (J)	0.0218		0.0292	0.0381	
10/4/2017			0.015			0.0047 (J)
3/19/2018						0.0047 (J)
3/20/2018	0.0088 (J)	0.024		0.029	0.039	
3/21/2018			0.015			
9/17/2018	0.0082 (J)					0.0041 (J)
9/18/2018		0.027	0.014	0.025	0.037	
3/20/2019						0.0042 (J)
3/21/2019	0.0075 (J)	0.03			0.042	
3/27/2019			0.014			
5/6/2019				0.017		
9/13/2019		0.031				0.0042 (J)
9/16/2019	0.0072 (J)		0.015 (D)	0.026	0.035	
3/11/2020						0.0041 (J)
3/12/2020	0.0072 (J)	0.022	0.014		0.044	
3/16/2020				0.027		
9/16/2020	0.0066 (J)	0.02				
9/17/2020			0.014	0.025	0.031	
3/17/2021	0.0072	0.022	0.014			
3/18/2021				0.018	0.041	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						0.0073

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/30/2014	<0.0005	<0.0005	<0.0005			
10/1/2014					<0.0005	<0.0005
3/30/2015	0.00029 (J)	<0.0005	<0.0005		<0.0005	0.0002 (J)
10/11/2015					<0.0005	<0.0005
10/13/2015	<0.0005	<0.0005	<0.0005			
3/22/2016	<0.0005					
3/23/2016		<0.0005	<0.0005			
3/28/2016					<0.0005	<0.0005
5/19/2016	<0.0005		<0.0005			
5/20/2016		<0.0005				
5/23/2016					<0.0005	
5/25/2016						<0.0005
7/29/2016	<0.0005	<0.0005	<0.0005			
8/1/2016					<0.0005	<0.0005
9/22/2016			<0.0005			
9/23/2016	<0.0005	<0.0005				
9/26/2016					<0.0005	<0.0005
11/9/2016	<0.0005	<0.0005				
11/10/2016			<0.0005		<0.0005	
11/11/2016						<0.0005
1/30/2017	<0.0005				<0.0005	<0.0005
1/31/2017		<0.0005	<0.0005			
2/22/2017				<0.0005		
3/30/2017	<0.0005	<0.0005				
4/3/2017			<0.0005			<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	<0.0005
10/3/2017				<0.0005		
3/16/2018	<0.0005		<0.0005		<0.0005	<0.0005
3/19/2018		<0.0005				
3/21/2018				<0.0005		
9/14/2018		<0.0005	<0.0005			
9/17/2018	<0.0005 (D)				<0.0005	
9/18/2018				<0.0005		<0.0005
3/19/2019			<0.0005		<0.0005	<0.0005
3/20/2019	<0.0005	<0.0005				
3/21/2019				<0.0005		
9/12/2019	<0.0005	<0.0005 (D)		<0.0005		<0.0005
9/13/2019			<0.0005		<0.0005	
3/11/2020	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/12/2020				<0.0005		
9/15/2020	<0.0005	<0.0005	<0.0005			8.5E-05 (J)
9/16/2020					<0.0005	
9/17/2020				<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/16/2021	<0.0005		<0.0005	<0.0005		
3/17/2021		<0.0005			<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/1/2014						<0.0005
10/2/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4/1/2015			<0.0005	<0.0005	<0.0005	0.00022 (J)
4/2/2015	0.00015 (J)	<0.0005				
10/10/2015	8.5E-05 (J)					
10/11/2015			<0.0005	<0.0005		
10/12/2015		<0.0005				
10/14/2015					<0.0005	
10/15/2015						0.00018 (J)
3/31/2016	<0.0005	<0.0005				
4/4/2016			<0.0005	<0.0005	<0.0005	<0.0005
5/26/2016	<0.0005	<0.0005	<0.0005	<0.0005		
5/27/2016					<0.0005	
5/31/2016						<0.0005
8/3/2016		<0.0005	<0.0005		<0.0005	
8/4/2016				<0.0005		<0.0005
8/5/2016	<0.0005					
9/28/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/29/2016						9E-05 (J)
9/30/2016					<0.0005	
11/22/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
11/28/2016						<0.0005
2/7/2017	<0.0005	<0.0005				
2/8/2017			<0.0005	<0.0005		
2/9/2017						<0.0005
2/13/2017					<0.0005	
4/10/2017	<0.0005	<0.0005	<0.0005	<0.0005		
4/11/2017					<0.0005	
4/12/2017						0.0001 (J)
6/14/2017	<0.0005	<0.0005			<0.0005	
6/15/2017			<0.0005	<0.0005		
6/16/2017						9E-05 (J)
10/4/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/9/2017						<0.0005
3/20/2018	0.00019 (J)					
3/21/2018		<0.0005	<0.0005			<0.0005
3/22/2018				<0.0005	<0.0005	
9/18/2018	5.4E-05 (J)	<0.0005	<0.0005	<0.0005	<0.0005	
9/19/2018						7E-05 (J)
3/22/2019	0.00018 (J)	<0.0005				
3/23/2019			5.7E-05 (J)	<0.0005	<0.0005	6.1E-05 (J)
9/17/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005 (D)	
9/18/2019						7.4E-05 (J)
3/12/2020	0.00017 (J)	<0.0005	<0.0005	<0.0005	<0.0005	
3/13/2020						8E-05 (J)
9/17/2020	<0.0005	<0.0005				
9/21/2020			<0.0005	<0.0005	<0.0005	
9/22/2020						<0.0005
3/18/2021	0.0001 (J)	<0.0005				7E-05 (J)
3/19/2021			<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/30/2014		<0.0005	<0.0005	<0.0005		
10/1/2014	<0.0005					
10/3/2014					0.00073 (J)	0.00024 (J)
3/31/2015	<0.0005				0.00057 (J)	
4/1/2015						0.00021 (J)
4/3/2015		<0.0005	<0.0005	<0.0005		
10/6/2015			<0.0005			
10/7/2015		<0.0005		<0.0005		
10/9/2015						<0.0005
10/12/2015					0.00054 (J)	
10/14/2015	<0.0005					
3/28/2016					<0.0005	
3/29/2016						<0.0005
4/4/2016	<0.0005 (D)					
4/5/2016		<0.0005	<0.0005	<0.0005		
5/24/2016						<0.0005
5/25/2016					<0.0005	
5/31/2016			<0.0005	<0.0005		
6/1/2016	<0.0005 (D)	<0.0005				
8/1/2016					0.0006 (J)	<0.0005
8/4/2016				<0.0005		
8/9/2016		<0.0005				
9/26/2016						<0.0005
9/27/2016					0.0007 (J)	
9/29/2016				<0.0005		
11/11/2016					0.0007 (J)	
11/18/2016						<0.0005
11/23/2016			<0.0005	<0.0005		
11/28/2016		<0.0005				
1/31/2017					0.0007 (J)	
2/1/2017						<0.0005
2/9/2017		0.0001 (J)				
2/10/2017			<0.0005	<0.0005		
2/22/2017	<0.0005					
4/3/2017					0.0007 (J)	
4/6/2017						<0.0005
4/11/2017	<0.0005	<0.0005	<0.0005			
4/12/2017				<0.0005		
6/12/2017					0.0004 (J)	
6/13/2017						<0.0005
6/14/2017		<0.0005				
6/15/2017			<0.0005	<0.0005		
6/16/2017	<0.0005					
7/12/2017	<0.0005	<0.0005	<0.0005			
7/26/2017			<0.0005			
7/28/2017	<0.0005					
8/10/2017	<0.0005					
10/3/2017					0.0006 (J)	<0.0005
10/5/2017		<0.0005				
10/6/2017	<0.0005		<0.0005	<0.0005		
3/19/2018					0.0005 (J)	6.6E-05 (J)
3/22/2018		0.00103 (D)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/23/2018	<0.0005		<0.0005	<0.0005		
9/17/2018					0.00053 (J)	<0.0005
9/19/2018		0.00014 (J)	<0.0005	<0.0005		
9/20/2018	<0.0005					
3/20/2019					0.00046 (J)	
3/21/2019						<0.0005
3/22/2019	<0.0005	9.4E-05 (J)	<0.0005			
3/25/2019				<0.0005		
9/16/2019					0.00051 (J)	<0.0005
9/17/2019		0.00013 (X)	<0.0005	<0.0005		
9/18/2019	<0.0005					
3/12/2020						<0.0005
3/13/2020		0.00016 (J)	<0.0005	<0.0005		
3/16/2020					0.00048 (J)	
3/17/2020	<0.0005					
9/16/2020					0.00069 (J)	<0.0005
9/21/2020		9.5E-05 (J)	<0.0005	<0.0005		
9/22/2020	<0.0005					
3/17/2021					0.00061	<0.0005
3/18/2021		0.00012 (J)	<0.0005	<0.0005		
3/19/2021	<0.0005					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
9/30/2014					0.00013 (J)	
10/2/2014			<0.0005			
10/4/2014						<0.0005
3/31/2015						<0.0005
4/2/2015					0.00028 (J)	
4/3/2015			<0.0005			
5/26/2015	8.8E-05 (J)			<0.0005		
6/18/2015	<0.0005 (D)			0.0013 (D)		
7/2/2015	<0.0005			<0.0005		
10/8/2015			0.00025 (J)	<0.0005		
10/9/2015	<0.0005					
10/10/2015					0.000245 (JD)	
10/12/2015						<0.0005
3/22/2016				<0.0005		
3/23/2016						<0.0005
3/29/2016	<0.0005					
3/30/2016			<0.0005		<0.0005	
5/23/2016						<0.0005
5/24/2016	<0.0005		<0.0005			
5/25/2016				<0.0005		
5/26/2016					<0.0005	
5/31/2016		<0.0005				
7/29/2016						<0.0005
8/1/2016	<0.0005					
8/2/2016		<0.0005	<0.0005	<0.0005		
8/5/2016					<0.0005	
9/22/2016						<0.0005
9/26/2016	<0.0005			<0.0005		
9/27/2016		<0.0005	<0.0005			
9/28/2016					<0.0005	
11/10/2016						<0.0005
11/14/2016	<0.0005					
11/21/2016		<0.0005		<0.0005	<0.0005	
11/22/2016			<0.0005			
1/31/2017						<0.0005
2/1/2017	<0.0005	<0.0005				
2/3/2017				<0.0005		
2/6/2017			<0.0005		0.0002 (J)	
3/30/2017						<0.0005
4/6/2017	<0.0005	<0.0005	<0.0005		0.0002 (J)	
4/7/2017				<0.0005		
6/12/2017						<0.0005
6/13/2017	<0.0005	<0.0005		<0.0005	0.0002 (J)	
6/14/2017			<0.0005			
7/14/2017		<0.0005				
10/3/2017	<0.0005	<0.0005		<0.0005	0.0001 (J)	
10/4/2017			<0.0005			<0.0005
3/19/2018						<0.0005
3/20/2018	6.8E-05 (J)	<0.0005		<0.0005	0.00022 (J)	
3/21/2018			<0.0005			
9/17/2018	5.8E-05 (J)					<0.0005
9/18/2018		<0.0005	<0.0005	<0.0005	0.00014 (JD)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/20/2019						<0.0005
3/21/2019	7.6E-05 (J)	<0.0005			0.00015 (J)	
3/27/2019			<0.0005			
5/6/2019				0.0001 (J)		
9/13/2019		<0.0005				<0.0005
9/16/2019	<0.0005		<0.0005 (D)	<0.0005	0.0001 (J)	
3/11/2020						<0.0005
3/12/2020	9.3E-05 (J)	<0.0005	<0.0005		0.00022 (J)	
3/16/2020				<0.0005		
9/16/2020	6.7E-05 (J)	<0.0005				
9/17/2020			<0.0005	4.9E-05 (J)	4.8E-05 (J)	
3/17/2021	<0.0005	<0.0005	<0.0005			
3/18/2021				8.5E-05 (J)	0.00016 (J)	
3/29/2021						<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	<0.04					
3/23/2016		<0.04	<0.04			
3/28/2016					<0.04	<0.04
5/19/2016	<0.04		<0.04			
5/20/2016		<0.04				
5/23/2016					<0.04	
5/25/2016						<0.04
7/29/2016	<0.04	<0.04	<0.04			
8/1/2016					<0.04	<0.04
9/22/2016			<0.04			
9/23/2016	<0.04	<0.04				
9/26/2016					<0.04	<0.04
11/9/2016	<0.04	<0.04				
11/10/2016			<0.04		<0.04	
11/11/2016						0.0193 (J)
1/30/2017	<0.04				<0.04	<0.04
1/31/2017		<0.04	<0.04			
2/22/2017				0.022 (J)		
3/30/2017	0.0065 (J)	<0.04				
4/3/2017			<0.04			<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	<0.04
10/3/2017				0.006 (J)		
3/16/2018	<0.04		0.0077 (J)		<0.04	<0.04
3/19/2018		0.013 (J)				
3/21/2018				0.0062 (J)		
9/14/2018		<0.04	<0.04			
9/17/2018	0.00625 (JD)				<0.04	
9/18/2018				0.0096 (J)		<0.04
3/19/2019			0.014 (J)		<0.04	<0.04
3/20/2019	0.0042 (J)	<0.04				
3/21/2019				0.0066 (J)		
9/12/2019	<0.04	<0.04 (D)		0.012 (J)		<0.04
9/13/2019			0.012 (J)		<0.04	
3/11/2020	<0.04	0.0068 (J)	0.017 (J)		0.0063 (J)	0.007 (J)
3/12/2020				0.014 (J)		
9/15/2020	0.01 (J)	0.0053 (J)	0.0074 (J)			<0.04
9/16/2020					<0.04	
9/17/2020				0.015 (J)		
3/16/2021	<0.04		0.0061 (J)	0.0092 (J)		
3/17/2021		<0.04			<0.04	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	<0.04	<0.04				
4/4/2016			<0.04	<0.04	<0.04	<0.04
5/26/2016	<0.04	<0.04	<0.04	<0.04		
5/27/2016					<0.04	
5/31/2016						<0.04
8/3/2016		<0.04	<0.04		<0.04	
8/4/2016				<0.04		<0.04
8/5/2016	<0.04					
9/28/2016	<0.04	0.0169 (J)	<0.04	<0.04		
9/29/2016						0.0192 (J)
9/30/2016					<0.04	
11/22/2016	<0.04	0.0067 (J)	<0.04	0.0072 (J)	<0.04	
11/28/2016						0.0124 (J)
2/7/2017	<0.04	<0.04				
2/8/2017			0.0085 (J)	0.0069 (J)		
2/9/2017						0.0157 (J)
2/13/2017					<0.04	
4/10/2017	<0.04	<0.04	<0.04	<0.04		
4/11/2017					<0.04	
4/12/2017						0.0183 (J)
6/14/2017	<0.04	<0.04			<0.04	
6/15/2017			<0.04	<0.04		
6/16/2017						0.0269 (J)
10/4/2017	<0.04	<0.04	<0.04	0.0065 (J)	<0.04	
10/9/2017						0.0383 (J)
3/20/2018	0.004 (J)					
3/21/2018		<0.04	<0.04			0.021 (J)
3/22/2018				<0.04	<0.04	
9/18/2018	<0.04	<0.04	<0.04	<0.04	<0.04	
9/19/2018						0.026 (J)
3/22/2019	<0.04	<0.04				
3/23/2019			<0.04	<0.04	<0.04	0.012 (J)
9/17/2019	<0.04	<0.04	<0.04	<0.04	<0.04 (D)	
9/18/2019						0.017 (J)
3/12/2020	<0.04	0.005 (J)	<0.04	0.0058 (J)	<0.04	
3/13/2020						0.014 (J)
9/17/2020	<0.04	<0.04				
9/21/2020			<0.04	<0.04	<0.04	
9/22/2020						0.0087 (J)
3/18/2021	<0.04	<0.04				0.0091 (J)
3/19/2021			<0.04	<0.04	<0.04	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					<0.04	
3/29/2016						<0.04
4/4/2016	<0.04					
4/5/2016		<0.04	<0.04	<0.04		
5/24/2016						<0.04
5/25/2016					<0.04	
5/31/2016			<0.04	<0.04		
6/1/2016	<0.04	<0.04				
8/1/2016					<0.04	<0.04
8/4/2016				<0.04		
8/9/2016		0.0998 (D)				
9/26/2016						<0.04
9/27/2016					<0.04	
9/29/2016				0.0106 (J)		
11/11/2016					0.0083 (J)	
11/18/2016						<0.04
11/23/2016			0.0076 (J)	0.0099 (J)		
11/28/2016		0.0072 (J)				
1/31/2017					<0.04	
2/1/2017						<0.04
2/9/2017		<0.04				
2/10/2017			<0.04	<0.04		
2/22/2017	0.02 (J)					
4/3/2017					<0.04	
4/6/2017						<0.04
4/11/2017	<0.04	<0.04	<0.04			
4/12/2017				0.009 (J)		
6/12/2017					<0.04	
6/13/2017						<0.04
6/14/2017		<0.04				
6/15/2017			<0.04	<0.04		
6/16/2017	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	<0.04
10/5/2017		0.0068 (J)				
10/6/2017	0.0148 (J)		0.0071 (J)	<0.04		
3/19/2018					0.0041 (J)	<0.04
3/22/2018		<0.04				
3/23/2018	0.017 (J)		0.0092 (J)	0.0053 (J)		
9/17/2018					<0.04	<0.04
9/19/2018		<0.04	0.0046 (J)	0.0049 (J)		
9/20/2018	0.016 (J)					
3/20/2019					<0.04	
3/21/2019						<0.04
3/22/2019	0.013 (J)	<0.04	<0.04			
3/25/2019				<0.04		
9/16/2019					0.0051 (J)	<0.04
9/17/2019		<0.04	<0.04	<0.04		
9/18/2019	0.014 (X)					

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/12/2020						0.0061 (J)
3/13/2020		0.0081 (J)	0.0054 (J)	0.0064 (J)		
3/16/2020					<0.04	
3/17/2020	0.017 (J)					
9/16/2020					<0.04	<0.04
9/21/2020		<0.04	<0.04	0.0075 (J)		
9/22/2020	0.01 (J)					
3/17/2021					<0.04	<0.04
3/18/2021		<0.04	<0.04	<0.04		
3/19/2021	0.014 (J)					

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.04		
3/23/2016						<0.04
3/29/2016	<0.04					
3/30/2016			<0.04		<0.04	
5/23/2016						<0.04
5/24/2016	<0.04		<0.04			
5/25/2016				<0.04		
5/26/2016					<0.04	
5/31/2016		<0.04				
7/29/2016						<0.04
8/1/2016	<0.04					
8/2/2016		<0.04	<0.04	<0.04		
8/5/2016					<0.04	
9/22/2016						<0.04
9/26/2016	<0.04			<0.04		
9/27/2016		0.0073 (J)	<0.04			
9/28/2016					<0.04	
11/10/2016						<0.04
11/14/2016	<0.04					
11/21/2016		0.008 (J)		<0.04	<0.04	
11/22/2016			0.0115 (J)			
1/31/2017						<0.04
2/1/2017	<0.04	<0.04				
2/3/2017				<0.04		
2/6/2017			<0.04		<0.04	
3/30/2017						<0.04
4/6/2017	<0.04	<0.04	<0.04		<0.04	
4/7/2017				<0.04		
6/12/2017						<0.04
6/13/2017	<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	
10/4/2017			<0.04			<0.04
3/19/2018						0.0057 (J)
3/20/2018	0.0073 (J)	0.0064 (J)		<0.04	0.0096 (J)	
3/21/2018			<0.04			
9/17/2018	0.0046 (J)					<0.04
9/18/2018		0.0045 (J)	<0.04	<0.04	<0.04 (D)	
3/20/2019						<0.04
3/21/2019	<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)				<0.04
9/16/2019	<0.04		<0.04 (D)	<0.04	<0.04	
3/11/2020						0.0071 (J)
3/12/2020	0.0052 (J)	0.0057 (J)	<0.04		0.0058 (J)	
3/16/2020				<0.04		
9/16/2020	<0.04	0.0052 (J)				
9/17/2020			<0.04	<0.04	<0.04	
3/17/2021	<0.04	<0.04	<0.04			
3/18/2021				<0.04	<0.04	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.04

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.001	<0.001	<0.001			
10/23/2007	<0.001					
10/24/2007		<0.001	<0.001			
11/18/2007	<0.001	<0.001	<0.001			
1/30/2008	<0.001					
1/31/2008		<0.001	<0.001			
3/10/2008	<0.001		<0.001			
3/11/2008		<0.001				
5/6/2008		<0.001				
5/13/2008	<0.001		<0.001			
12/4/2008		<0.001	<0.001			
12/5/2008	<0.001					
12/12/2008					<0.001	<0.001
4/15/2009	<0.001					
4/21/2009		<0.001	<0.001			
4/23/2009					<0.001	<0.001
10/6/2009					<0.001	<0.001
10/7/2009	<0.001	<0.001				
10/8/2009			<0.001			
4/21/2010			<0.001			
4/26/2010		<0.001				
4/27/2010					<0.001	
5/3/2010	<0.001					<0.001
9/28/2010			<0.001			
9/30/2010					<0.001	
10/4/2010		<0.001				
10/11/2010						<0.001
10/12/2010	<0.001					
4/12/2011			<0.001			
4/13/2011		<0.001				
4/14/2011					<0.001	
4/27/2011	<0.001					<0.001
10/4/2011			<0.001			
10/5/2011		<0.001			<0.001	
10/17/2011	<0.001					
10/19/2011						<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	<0.001
10/8/2012	<0.001					
10/9/2012		<0.001	<0.001			
4/9/2013					<0.001	
4/10/2013						<0.001
4/11/2013			<0.001			
4/12/2013	<0.001					
4/15/2013		<0.001				
10/15/2013		<0.001			<0.001	
10/16/2013	<0.001		<0.001			<0.001
4/10/2014			<0.001		<0.001	
4/11/2014	<0.001					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.001				<0.001
9/30/2014	<0.001	<0.001	<0.001			
10/1/2014					<0.001	<0.001
3/30/2015	<0.001	<0.001	<0.001		<0.001	<0.001
10/11/2015					0.00026 (J)	<0.001
10/13/2015	0.0003 (J)	<0.001	<0.001			
3/22/2016	<0.001					
3/23/2016		<0.001	<0.001			
3/28/2016					<0.001	<0.001
5/19/2016	<0.001		<0.001			
5/20/2016		<0.001				
5/23/2016					<0.001	
5/25/2016						<0.001
7/29/2016	<0.001	<0.001	<0.001			
8/1/2016					<0.001	<0.001
9/22/2016			<0.001			
9/23/2016	<0.001	<0.001				
9/26/2016					<0.001	<0.001
11/9/2016	<0.001	<0.001				
11/10/2016			<0.001		<0.001	
11/11/2016						<0.001
1/30/2017	<0.001				<0.001	<0.001
1/31/2017		<0.001	<0.001			
2/22/2017				<0.001		
3/30/2017	<0.001	<0.001				
4/3/2017			<0.001			<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	<0.001
10/3/2017				<0.001		
3/16/2018	<0.001		<0.001		<0.001	<0.001
3/19/2018		<0.001				
3/21/2018				<0.001		
9/14/2018		<0.001	<0.001			
9/17/2018	0.00076 (D)				<0.001	
9/18/2018				<0.001		<0.001
3/19/2019			<0.001		<0.001	<0.001
3/20/2019	<0.001	<0.001				
3/21/2019				<0.001		
9/12/2019	<0.001	<0.001 (D)		<0.001		<0.001
9/13/2019			<0.001		<0.001	
3/11/2020	<0.001	<0.001	<0.001		<0.001	<0.001
3/12/2020				<0.001		
9/15/2020	<0.001	<0.001	<0.001			<0.001
9/16/2020				<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				<0.001		
3/16/2021	<0.001		<0.001	<0.001		
3/17/2021		<0.001			0.00012 (J)	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/18/2007			<0.001	<0.001		
11/19/2007					<0.001	<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		
1/31/2008						<0.001
3/5/2008			<0.001		<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					<0.001
5/13/2008					<0.001	
12/13/2008	<0.001				<0.001	<0.001
12/14/2008		<0.001	<0.001	<0.001		
4/16/2009					<0.001	
4/28/2009						<0.001
4/29/2009	<0.001	<0.001	<0.001	<0.001		
10/20/2009	<0.001					
10/21/2009		<0.001			<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	
4/28/2010						<0.001
9/28/2010		<0.001	<0.001			
9/29/2010	<0.001			<0.001		
10/5/2010					<0.001	<0.001
4/12/2011		<0.001	<0.001			
4/13/2011	<0.001			<0.001		
4/19/2011					<0.001	<0.001
10/4/2011		<0.001	<0.001	<0.001		
10/5/2011	<0.001					
10/12/2011					<0.001	
10/18/2011						<0.001
4/3/2012		<0.001	<0.001			
4/4/2012	<0.001			<0.001		
4/24/2012					<0.001	
4/25/2012						<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	<0.001
4/3/2013	<0.001	<0.001	<0.001	<0.001		
10/8/2013						<0.001
10/9/2013			<0.001	<0.001	<0.001	
10/15/2013	<0.001	<0.001				
4/1/2014					<0.001	<0.001
4/2/2014			<0.001	<0.001		
4/9/2014	<0.001	<0.001				
10/1/2014						<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.001	<0.001	<0.001	<0.001	<0.001	
4/1/2015			<0.001	0.00033 (J)	<0.001	<0.001
4/2/2015	<0.001	<0.001				
10/10/2015	<0.001					
10/11/2015			<0.001	0.00056 (J)		
10/12/2015		<0.001				
10/14/2015					0.00025 (J)	
10/15/2015						<0.001
3/31/2016	<0.001	<0.001				
4/4/2016			<0.001	<0.001	0.000136 (J)	<0.001
5/26/2016	<0.001	<0.001	<0.001	<0.001		
5/27/2016					0.000131 (J)	
5/31/2016						<0.001
8/3/2016		<0.001	<0.001		<0.001	
8/4/2016				<0.001		<0.001
8/5/2016	<0.001					
9/28/2016	<0.001	0.0002 (J)	<0.001	<0.001		
9/29/2016						<0.001
9/30/2016					9E-05 (J)	
11/22/2016	<0.001	<0.001	<0.001	<0.001	<0.001	
11/28/2016						<0.001
2/7/2017	<0.001	<0.001				
2/8/2017			<0.001	<0.001		
2/9/2017						<0.001
2/13/2017					0.0001 (J)	
4/10/2017	<0.001	<0.001	<0.001	<0.001		
4/11/2017					0.0003 (J)	
4/12/2017						<0.001
6/14/2017	<0.001	<0.001			0.0003 (J)	
6/15/2017			<0.001	<0.001		
6/16/2017						<0.001
10/4/2017	<0.001	<0.001	<0.001	<0.001	0.0002 (J)	
10/9/2017						<0.001
3/20/2018	<0.001					
3/21/2018		<0.001	<0.001			<0.001
3/22/2018				<0.001	0.00032 (J)	
9/18/2018	<0.001	<0.001	<0.001	<0.001	0.00057 (J)	
9/19/2018						<0.001
3/22/2019	<0.001	<0.001				
3/23/2019			<0.001	<0.001	0.00035 (J)	<0.001
9/17/2019	<0.001	<0.001	<0.001	<0.001	0.000575 (JD)	
9/18/2019						<0.001
3/12/2020	<0.001	<0.001	<0.001	<0.001	0.00089 (J)	
3/13/2020						<0.001
9/17/2020	<0.001	<0.001				
9/21/2020			<0.001	<0.001	0.00025 (J)	
9/22/2020						<0.001
3/18/2021	<0.001	<0.001				<0.001
3/19/2021			<0.001	<0.001	0.00027 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.001					
8/22/2007						<0.001
8/23/2007				<0.001	<0.001	
8/24/2007		<0.001	<0.001			
10/25/2007					<0.001	<0.001
11/1/2007	<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	
11/20/2007						<0.001
1/15/2008		<0.001	<0.001	<0.001		
1/23/2008					<0.001	<0.001
1/31/2008	<0.001					
3/5/2008	<0.001	<0.001				
3/6/2008				<0.001		
3/10/2008			<0.001			
3/11/2008					<0.001	<0.001
5/7/2008	<0.001	<0.001		<0.001		
5/12/2008					<0.001	
5/13/2008			<0.001			
5/14/2008						<0.001
12/2/2008		<0.001	<0.001	<0.001		
12/11/2008					<0.001	<0.001
12/12/2008	<0.001					
4/15/2009					<0.001	
4/16/2009		<0.001				
4/23/2009						<0.001
4/28/2009			<0.001	<0.001		
4/29/2009	<0.001					
10/9/2009					<0.001	<0.001
10/19/2009				<0.001		
10/20/2009		<0.001	<0.001			
10/21/2009	<0.001					
4/20/2010		<0.001				
4/27/2010			<0.001	<0.001		
4/28/2010	<0.001					
5/4/2010					<0.001	<0.001
9/29/2010		<0.001				
10/4/2010				<0.001		
10/5/2010			<0.001			
10/6/2010	<0.001					
10/11/2010						<0.001
10/12/2010					<0.001	
4/12/2011		<0.001				
4/18/2011				<0.001		
4/19/2011			<0.001			
4/20/2011	<0.001					
4/26/2011						<0.001
4/28/2011					<0.001	
10/4/2011		<0.001				
10/12/2011	<0.001		<0.001	<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.001	<0.001
10/2/2012	<0.001					
10/8/2012						<0.001
10/9/2012					<0.001	
10/10/2012		<0.001	<0.001	<0.001		
4/2/2013	<0.001					
4/10/2013						<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					
4/14/2014						<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					
10/3/2014					0.00033 (J)	<0.001
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)		
10/9/2015						<0.001
10/12/2015					<0.001	
10/14/2015	<0.001					
3/28/2016					0.00104	
3/29/2016						<0.001
4/4/2016	<0.001					
4/5/2016		<0.001	<0.001	0.027 (o)		
5/24/2016						<0.001
5/25/2016					0.000148 (J)	
5/31/2016			<0.001	0.000206 (J)		
6/1/2016	<0.001	<0.001				
8/1/2016					0.0001 (J)	<0.001
8/4/2016				<0.001		
8/9/2016		<0.001				
9/26/2016						8E-05 (J)
9/27/2016					0.0001 (J)	
9/29/2016				0.0002 (J)		
11/11/2016					9E-05 (J)	
11/18/2016						8E-05 (J)
11/23/2016			<0.001	0.0001 (J)		
11/28/2016		<0.001				
1/31/2017					<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.001
2/9/2017		0.0001 (J)				
2/10/2017			<0.001	<0.001		
2/22/2017	<0.001					
4/3/2017					0.0001 (J)	
4/6/2017						<0.001
4/11/2017	<0.001	<0.001	<0.001			
4/12/2017				<0.001		
6/12/2017					<0.001	
6/13/2017						<0.001
6/14/2017		<0.001				
6/15/2017			<0.001	<0.001		
6/16/2017	<0.001					
7/12/2017	<0.001	<0.001	<0.001			
7/26/2017			<0.001			
7/28/2017	<0.001					
8/10/2017	<0.001					
10/3/2017					<0.001	<0.001
10/5/2017		<0.001				
10/6/2017	<0.001		<0.001	<0.001		
3/19/2018					<0.001	<0.001
3/22/2018		<0.001				
3/23/2018	<0.001		<0.001	<0.001		
9/17/2018					<0.001	<0.001
9/19/2018		<0.001	<0.001	<0.001		
9/20/2018	<0.001					
3/20/2019					<0.001	
3/21/2019						<0.001
3/22/2019	<0.001	<0.001	<0.001			
3/25/2019				<0.001		
9/16/2019					<0.001	<0.001
9/17/2019		<0.001	<0.001	<0.001		
9/18/2019	<0.001					
3/12/2020						<0.001
3/13/2020		<0.001	<0.001	<0.001		
3/16/2020					<0.001	
3/17/2020	<0.001					
9/16/2020					<0.001	<0.001
9/21/2020		<0.001	<0.001	<0.001		
9/22/2020	<0.001					
3/17/2021					0.00013 (J)	<0.001
3/18/2021		<0.001	<0.001	<0.001		
3/19/2021	<0.001					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.001	<0.001
11/1/2007					<0.001	
11/2/2007						<0.001
11/18/2007						<0.001
11/19/2007					<0.001	
1/15/2008					<0.001	
1/31/2008						<0.001
3/6/2008					<0.001	
3/11/2008						<0.001
5/13/2008					<0.001	
5/14/2008						<0.001
12/5/2008						<0.001
12/12/2008					<0.001	
4/15/2009						<0.001
4/16/2009					<0.001	
10/8/2009						<0.001
10/13/2009					<0.001	
4/21/2010					<0.001	
4/28/2010						<0.001
9/29/2010					<0.001	
10/6/2010						<0.001
4/13/2011					<0.001	
4/21/2011						<0.001
10/5/2011					<0.001	
10/13/2011						<0.001
10/18/2011			<0.001			
4/4/2012					<0.001	
4/30/2012			<0.001			
5/1/2012						<0.001
10/3/2012			<0.001			
10/8/2012					<0.001	
10/9/2012						<0.001
4/8/2013			<0.001		<0.001	
4/11/2013						<0.001
10/9/2013			<0.001		<0.001	
10/16/2013						<0.001
4/9/2014					<0.001	
4/10/2014			<0.001			
4/23/2014						<0.001
9/30/2014					<0.001	
10/2/2014			<0.001			
10/4/2014						<0.001
3/31/2015						<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					
10/10/2015				<0.001 (D)		
10/12/2015						<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.001		
3/23/2016						<0.001
3/29/2016	<0.001					
3/30/2016			<0.001		<0.001	
5/23/2016						<0.001
5/24/2016	<0.001		<0.001			
5/25/2016				<0.001		
5/26/2016					<0.001	
5/31/2016		<0.001				
7/29/2016						<0.001
8/1/2016	<0.001					
8/2/2016		<0.001	<0.001	<0.001		
8/5/2016					<0.001	
9/22/2016						<0.001
9/26/2016	<0.001			<0.001		
9/27/2016		<0.001	<0.001			
9/28/2016					<0.001	
11/10/2016						<0.001
11/14/2016	<0.001					
11/21/2016		<0.001		<0.001	<0.001	
11/22/2016			<0.001			
1/31/2017						<0.001
2/1/2017	<0.001	9E-05 (J)				
2/3/2017				0.0001 (J)		
2/6/2017			<0.001		<0.001	
3/30/2017						<0.001
4/6/2017	<0.001	<0.001	<0.001		<0.001	
4/7/2017				<0.001		
6/12/2017						<0.001
6/13/2017	<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	
10/4/2017			<0.001			<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)	
3/20/2019						<0.001
3/21/2019	<0.001	<0.001			<0.001	
3/27/2019			<0.001			
5/6/2019				<0.001		
9/13/2019		<0.001				<0.001
9/16/2019	<0.001		<0.001 (D)	<0.001	<0.001	
3/11/2020						<0.001
3/12/2020	<0.001	<0.001	<0.001		<0.001	
3/16/2020				<0.001		
9/16/2020	<0.001	<0.001				
9/17/2020			<0.001	<0.001	<0.001	
3/17/2021	<0.001	<0.001	<0.001			
3/18/2021				<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.001

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	32.6					
3/23/2016		54.1	46.5			
3/28/2016					3.89	7.04
5/19/2016	33.4		24.6			
5/20/2016		23.9				
5/23/2016					2.16	
5/25/2016						13.5
7/29/2016	26	25.3	14.9			
8/1/2016					1.37	2.2
9/22/2016			15			
9/23/2016	28.8	26.6				
9/26/2016					1.86	5.72
11/9/2016	27.9	16.1				
11/10/2016			12.6		1.86	
11/11/2016						2.5
1/30/2017	29.2				2.86	2.01
1/31/2017		5.68	16.5			
2/22/2017				54.7		
3/30/2017	30	25.2				
4/3/2017			16.6			6.26
4/7/2017				46.8	2.34	
6/9/2017	30.9		17.8			
6/12/2017		34.2			1.87	7.44
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	6.55
10/3/2017				47.7		
3/16/2018	28.5		33		1.8	2.6
3/19/2018		63				
3/21/2018				47.5		
9/14/2018		2.4	22.8 (J)			
9/17/2018	30.8				2.3	
9/18/2018				48.1		1.3
3/19/2019			59.2		4.2	4.6
3/20/2019	30.1	4.3				
3/21/2019				49.9		
9/12/2019	31.9	1.8		49.9		3.7
9/13/2019			27		1.9	
3/11/2020	31.8	66.6	46.8		1.6	1.2
3/12/2020				54.2		
9/15/2020	30.8	18.4	21.4			0.94 (J)
9/16/2020					1.7	
9/17/2020				48.4		
3/16/2021	34.6		26.7	53.7		
3/17/2021		40.4			1.4	5.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	36.4	45				
4/4/2016			21.3	27.9	8.63	36.9
5/26/2016	37.6	41.7	22.5	28.7		
5/27/2016					9.07	
5/31/2016						43.9
8/3/2016		35.2	17.5		6.82	
8/4/2016				18.6		45
8/5/2016	30.7					
9/28/2016	32.4	39.2	24.1	17.7		
9/29/2016						60.5
9/30/2016					8.8	
11/22/2016	31.4	37.2	15.7	20.2	8.08	
11/28/2016						54.7
2/7/2017	30.1	38.4				
2/8/2017			18.3	24.3		
2/9/2017						61
2/13/2017					8.51	
4/10/2017	23.6	38.7	18.5	29		
4/11/2017					7.5	
4/12/2017						52.3
6/14/2017	34.6	40.8			7.82	
6/15/2017			21	29		
6/16/2017						62.3
10/4/2017	35.2	40.1	9.4	23.9	8.32	
10/9/2017						58.6
3/20/2018	12 (J)					
3/21/2018		43.3	19.7 (J)			40.9
3/22/2018				27.5	7.5	
9/18/2018	36.7	45.4	17.6 (J)	26.3	8.2	
9/19/2018						45.9
3/22/2019	15.4 (J)	37.2				
3/23/2019			7.8	28.3	7.5	29.6
9/17/2019	36.7	40.5	16.8	27.6	7.8	
9/18/2019						40.7
3/12/2020	18.6	43.2	8	32.5	8.1	
3/13/2020						33
9/17/2020	32.6	39				
9/21/2020			17.7	26	8	
9/22/2020						43.1
3/18/2021	27	43.8				30.8
3/19/2021			19.7	31.3	7.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					4.29	
3/29/2016						13.8
4/4/2016	26.5					
4/5/2016		35.7	12.2	37.7		
5/24/2016						14.8
5/25/2016					7.15	
5/31/2016			8.24	38.4		
6/1/2016	26.6	28.2				
8/1/2016					3.35	
8/4/2016				28.6		
8/9/2016		43				
9/26/2016						13.3
9/27/2016					2.89	
9/29/2016				31.4		
11/11/2016					3.33	
11/18/2016						12.4
11/23/2016			24.5	62.5		
11/28/2016		24.8				
1/31/2017					3.21	
2/1/2017						13.3
2/9/2017		21.2				
2/10/2017			23.8	31.2		
2/22/2017	51.6					
4/3/2017					2.57	
4/6/2017						13.4
4/11/2017	45.2	21.1	25.7			
4/12/2017				34.1		
6/12/2017					6.22	
6/13/2017						14.6
6/14/2017		20.6				
6/15/2017			24.8	34.2		
6/16/2017	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	13.9
10/5/2017		20.1				
10/6/2017	42.2		24.7	35.4		
3/19/2018					3.3	14.4 (J)
3/22/2018		18.6 (J)				
3/23/2018	41.4		24.3 (J)	35.6		
9/17/2018					2	12.4 (J)
9/19/2018		20 (J)	23.7 (J)	35.7		
9/20/2018	47.5					
3/20/2019					2.7	
3/21/2019						14.9 (J)
3/22/2019	40.5	16.7 (J)	21.3 (J)			
3/25/2019				35.6		
9/16/2019					2.8	13.5
9/17/2019		11.4	22.1	39.5		
9/18/2019	42.9					

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/12/2020						16.2
3/13/2020		17	24.2	41		
3/16/2020					12.1	
3/17/2020	44.9					
9/16/2020					2.8	14.3
9/21/2020		13.1	22.6	36.5		
9/22/2020	47.7					
3/17/2021					3	14.1
3/18/2021		13	27.4	42.1		
3/19/2021	43					

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				25.1		
3/23/2016						2.05
3/29/2016	11.1					
3/30/2016			22.2		9.07	
5/23/2016						1.29
5/24/2016	12.6		25.2			
5/25/2016				23.7		
5/26/2016					15.8	
5/31/2016		25.7				
7/29/2016						1.29
8/2/2016		22.9	20.8	21.5		
8/5/2016					20.5	
9/22/2016						1.51
9/26/2016	11.8			21.4		
9/27/2016		22.2	23.1			
9/28/2016					24.9	
11/10/2016						1.54
11/14/2016	11.3					
11/21/2016		22.1		21	23.4	
11/22/2016			22.3			
1/31/2017						1.34
2/1/2017	12.6	21.7				
2/3/2017				20		
2/6/2017			21.4		1.7	
3/30/2017						1.31
4/6/2017	9.84	21.4	21.1		1.6	
6/12/2017						1.4
6/13/2017	13	24.4		21.5	3.82	
6/14/2017			22.1			
7/14/2017		24.8				
10/3/2017	13.7	23.6		22.8	9.77	
10/4/2017			23.1			1.13
3/19/2018						1.2
3/20/2018	11.5 (J)	22.9 (J)		20.3 (J)	1.4	
3/21/2018			22.5 (J)			
9/17/2018	11 (J)					0.95
9/18/2018		20.8 (J)	20.8 (J)	15.5 (J)	3.35 (D)	
3/20/2019						0.96
3/21/2019	8.3	25.2			4.8	
3/27/2019			20.6 (J)			
5/6/2019				20 (J)		
9/13/2019		24.6				0.94
9/16/2019	9.5		23	20.3	12	
3/11/2020						1
3/12/2020	9.3	26.4	21.8		1.8	
3/16/2020				19.4		
9/16/2020	8.8	24.4				
9/17/2020			21.4	18.1	18.3	
3/17/2021	9.5	23.9	22.4			
3/18/2021				9.6	1.9	
3/29/2021						19

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	1.5101					
3/23/2016		2.4904	0.9079			
3/28/2016					1.14	0.9204
5/19/2016	1.5		0.9136			
5/20/2016		1.71				
5/23/2016					1.19	
5/25/2016						1.04
7/29/2016	1.7	2	1.1			
8/1/2016					1.2	0.85
9/22/2016			1			
9/23/2016	1.8	1.8				
9/26/2016					1.1	0.87
11/9/2016	2	1.6				
11/10/2016			1.2		1.3	
11/11/2016						0.99
1/30/2017	1.5				1.2	0.95
1/31/2017		1.3	1.2			
2/22/2017				3.7		
3/30/2017	1.8	1.6				
4/3/2017			0.99			0.88
4/7/2017				2.5	1.2	
6/9/2017	1.6		0.87			
6/12/2017		1.6			1.1	0.83
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	0.94
10/3/2017				2.8		
3/16/2018	1.7		1.6		1.4	<1
3/19/2018		1.9				
3/21/2018				2.9		
9/14/2018		0.98	0.92			
9/17/2018	1.55 (D)				1.1	
9/18/2018				3.1		1
3/19/2019			2		<1	<1
3/20/2019	<1	<1				
3/21/2019				3.6		
9/12/2019	1.3	0.815 (JD)		2.1		0.74 (J)
9/13/2019			0.94 (J)		1	
3/11/2020	1.4	2	0.6 (J)		0.91 (J)	0.73 (J)
3/12/2020				2.3		
9/15/2020	1.3	1.2	0.75 (J)			0.7 (J)
9/16/2020					0.97 (J)	
9/17/2020				2.4		
3/16/2021	1.3		0.73 (J)	2.7		
3/17/2021		1.4			1 (J)	0.81 (J)

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	2.72	2.79				
4/4/2016			1.42	1.67	1.03	3.55
5/26/2016	2.63	2.87	1.37	1.64		
5/27/2016					0.9684	
5/31/2016						3.55
8/3/2016		3.2	1.4		1.3	
8/4/2016				1.7		4.4
8/5/2016	3					
9/28/2016	2.5	3	1.2	1.4		
9/29/2016						4
9/30/2016					1.2	
11/22/2016	2.6	3.1	1.6	1.9	1.2	
11/28/2016						4
2/7/2017	2.3	3				
2/8/2017			1.4	1.7		
2/9/2017						7.5
2/13/2017					0.96	
4/10/2017	1.9	2.3	1.3	1.8		
4/11/2017					1.2	
4/12/2017						5.3
6/14/2017	1.9	2			0.89	
6/15/2017			1.2	1.5		
6/16/2017						5.4
10/4/2017	2	2.1	1.3	1.6	1	
10/9/2017						6.2
3/20/2018	2.2					
3/21/2018		2.5	1.6			4.6
3/22/2018				2	<1	
9/18/2018	2.4	2.5	1.5	1.9	1.3	
9/19/2018						5.1
3/22/2019	2.2	2.8				
3/23/2019			1.2	1.7	0.88	3.5
9/17/2019	2.4	2.8	1.1	1.4	0.835 (JD)	
9/18/2019						4
3/12/2020	2.3	3	1	1.5	0.84 (J)	
3/13/2020						3.3
9/17/2020	2.5	2.9				
9/21/2020			1	1.3	0.71 (J)	
9/22/2020						3.5
3/18/2021	2.1	2.5				3.4
3/19/2021			1.1	1.4	0.79 (J)	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					0.8659	
3/29/2016						1.3977
4/4/2016	3.3					
4/5/2016		1.93	0.9439	2.08		
5/24/2016						1.33
5/25/2016					0.8639	
5/31/2016			1	1.51		
6/1/2016	3.18	1.93				
8/1/2016					0.93	1.2
8/4/2016				1.7		
8/9/2016		2.4				
9/26/2016						1.1
9/27/2016					0.8	
9/29/2016				1.5		
11/11/2016					0.95	
11/18/2016						1.2
11/23/2016			1.7	1.9		
11/28/2016		3				
1/31/2017					0.99	
2/1/2017						1.3
2/9/2017		3				
2/10/2017			1.6	1.5		
2/22/2017	7.2					
4/3/2017					0.93	
4/6/2017						1.1
4/11/2017	5.5	4.5	1.5			
4/12/2017				1.7		
6/12/2017					0.91	
6/13/2017						1.2
6/14/2017		3				
6/15/2017			1	1.4		
6/16/2017	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	1.2
10/5/2017		2.7				
10/6/2017	8.9		1.7	1.6		
3/19/2018					0.82	1.2
3/22/2018		3.4				
3/23/2018	8.3		<1	1.5		
9/17/2018					0.9	1.1
9/19/2018		2.8	1.1	1.7		
9/20/2018	9.6					
3/20/2019					<1	
3/21/2019						<1
3/22/2019	7.4	3.7	1.2			
3/25/2019				1.9		
9/16/2019					0.73 (J)	1.1
9/17/2019		3.8	0.78 (X)	2		
9/18/2019	7.6					

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/12/2020						1.3
3/13/2020		4.2	0.7 (J)	1.6		
3/16/2020					0.67 (J)	
3/17/2020	7.7					
9/16/2020					0.7 (J)	1.2
9/21/2020		3.5	0.64 (J)	1.6		
9/22/2020	7					
3/17/2021					0.69 (J)	1.2
3/18/2021		4	0.67 (J)	1.7		
3/19/2021	7.4					

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				1.4231		
3/23/2016						1.6092
3/29/2016	1.6645					
3/30/2016			0.9409		2.21	
5/23/2016						1.52
5/24/2016	1.58		0.92			
5/25/2016				1.11		
5/26/2016					2.1	
5/31/2016		1.33				
7/29/2016						1.5
8/1/2016	1.4					
8/2/2016		1.5	1.2	1.5		
8/5/2016					2.4	
9/22/2016						1.4
9/26/2016	1.4			1.6		
9/27/2016		1.4	1.1			
9/28/2016					2.1	
11/10/2016						1.6
11/14/2016	1.6					
11/21/2016		1.5		1.5	2.2	
11/22/2016			1.2			
1/31/2017						1.6
2/1/2017	1.4	1.5				
2/3/2017				1.8		
2/6/2017			1.1		2.5	
3/30/2017						1.4
4/6/2017	1.5	1.2	1.2		2.2	
4/7/2017				1.5		
6/12/2017						1.4
6/13/2017	1.3	0.98		1.3	2	
6/14/2017			0.92			
7/14/2017		1.1				
10/3/2017	1.3	1		1.4	2	
10/4/2017			1			1.5
3/19/2018						1.5
3/20/2018	1.7	1.5		1.8	2.4	
3/21/2018			1.3			
9/17/2018	1.3					1.5
9/18/2018		1.3	1.2	1.9	2.4 (D)	
3/20/2019						<1
3/21/2019	<1	<1			2	
3/27/2019			0.9			
5/6/2019				1.1		
9/13/2019		1				1.5
9/16/2019	1.2		0.75 (JD)	1.4	1.9	
3/11/2020						1.4
3/12/2020	1.3	0.72 (J)	0.93 (J)		1.9	
3/16/2020				1.3		
9/16/2020	1.2	0.79 (J)				
9/17/2020			0.77 (J)	1.4	1.9	
3/17/2021	1.4	0.79 (J)	0.78 (J)			
3/18/2021				1.6	2.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						1.5

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.005	0.0045	<0.005			
10/23/2007	0.011					
10/24/2007		0.039 (o)	0.0033			
11/18/2007	0.038 (o)	0.059 (o)	0.012			
1/30/2008	0.11 (O)					
1/31/2008		0.0067	0.052 (O)			
3/10/2008	0.038		0.01			
3/11/2008		0.03 (o)				
5/6/2008		0.0062				
5/13/2008	0.012		0.0068			
12/4/2008		0.009	0.0017			
12/5/2008	<0.005					
12/12/2008					<0.005	<0.005
4/15/2009	<0.005					
4/21/2009		0.0022	<0.005			
4/23/2009					<0.005	0.0031
10/6/2009					<0.005	0.0024
10/7/2009	0.0065	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010					<0.005	
5/3/2010	<0.005					<0.005
9/28/2010			<0.005			
9/30/2010					0.0014	
10/4/2010		<0.005				
10/11/2010						0.0028
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011					0.0014	
4/27/2011	<0.005					0.0041
10/4/2011			<0.005			
10/5/2011		<0.005			<0.005	
10/17/2011	<0.005					
10/19/2011						<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	0.0019
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013					<0.005	
4/10/2013						0.0027
4/11/2013			<0.005			
4/12/2013	0.0019					
4/15/2013		0.0013				
10/15/2013		0.0023			<0.005	
10/16/2013	0.0024		<0.005			0.0029
4/10/2014			<0.005		0.0013 (J)	
4/11/2014	0.0013 (J)					

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				0.0024
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					<0.005	<0.005
3/30/2015	0.0047	0.0011 (J)	<0.005		<0.005	0.0022
10/11/2015					<0.005	<0.005
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	<0.005
5/19/2016	<0.005		<0.005			
5/20/2016		<0.005				
5/23/2016					<0.005	
5/25/2016						<0.005
7/29/2016	<0.005	<0.005	<0.005			
8/1/2016					<0.005	<0.005
9/22/2016			<0.005			
9/23/2016	<0.005	<0.005				
9/26/2016					<0.005	<0.005
11/9/2016	0.0011 (J)	<0.005				
11/10/2016			<0.005		<0.005	
11/11/2016						<0.005
1/30/2017	<0.005				<0.005	<0.005
1/31/2017		<0.005	<0.005			
2/22/2017				<0.005		
3/30/2017	<0.005	<0.005				
4/3/2017			<0.005			<0.005
4/7/2017				<0.005	<0.005	
6/9/2017	<0.005		<0.005			
6/12/2017		0.0008 (J)			<0.005	0.0005 (J)
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	<0.005	<0.005	<0.005		<0.005	<0.005
10/3/2017				<0.005		
3/16/2018	<0.005		<0.005		<0.005	<0.005
3/19/2018		0.0031 (J)				
3/21/2018				<0.005		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				<0.005	
9/18/2018				<0.005		<0.005
3/19/2019			<0.005		<0.005	<0.005
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	<0.005	<0.005 (D)		<0.005		<0.005
9/13/2019			<0.005		<0.005	
3/11/2020	0.0012 (J)	0.0025 (J)	0.0042 (J)		0.0011 (J)	<0.005
3/12/2020				<0.005		
9/15/2020	<0.005	0.00086 (J)	<0.005			<0.005
9/16/2020					<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				<0.005		
3/16/2021	<0.005		<0.005	<0.005		
3/17/2021		<0.005			<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	0.0015	0.036 (o)	<0.005	0.037	0.0013	0.0019
11/1/2007	0.011	0.01	<0.005	0.04	<0.005	0.01
11/18/2007			<0.005	0.045		
11/19/2007					0.0056	0.021
11/20/2007	0.042	0.0039				
1/16/2008					0.039	
1/30/2008	0.034	0.019 (o)	<0.005	0.041		
1/31/2008						0.035
3/5/2008			<0.005		0.03	0.012
3/6/2008	0.027	<0.005		0.042		
5/7/2008			0.025	0.029		
5/8/2008		0.01				
5/12/2008	0.015					0.02
5/13/2008					0.0057	
12/13/2008	0.0036				<0.005	0.014
12/14/2008		0.0038	0.0021	0.032		
4/16/2009					<0.005	
4/28/2009						0.0079
4/29/2009	<0.005	<0.005	0.011	0.017		
10/20/2009	<0.005					
10/21/2009		<0.005			0.0015	0.0092
10/22/2009			0.01	0.022		
4/21/2010		<0.005	0.0053	0.021		
4/26/2010	<0.005					
4/27/2010					0.0036	
4/28/2010						0.0086
9/28/2010		<0.005	0.0076			
9/29/2010	0.0034			0.024		
10/5/2010					<0.005	0.0085
4/12/2011		<0.005	0.0095			
4/13/2011	<0.005			0.014		
4/19/2011					0.003	0.0089
10/4/2011		0.0019	0.0091	0.017		
10/5/2011	0.0032					
10/12/2011					<0.005	
10/18/2011						0.0093
4/3/2012		<0.005	0.0076			
4/4/2012	<0.005			0.014		
4/24/2012					<0.005	
4/25/2012						0.0075
10/2/2012					<0.005	0.017
10/3/2012	0.0047		0.0039	0.0033		
10/8/2012		<0.005				
4/2/2013					0.0018	0.0097
4/3/2013	0.0014	<0.005	<0.005	0.017		
10/8/2013						0.011
10/9/2013			0.0089	0.015	<0.005	
10/15/2013	0.002	<0.005				
4/1/2014					<0.005	0.0074
4/2/2014			<0.005	0.014		
4/9/2014	<0.005	<0.005				
10/1/2014						0.0049

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.005	<0.005	<0.005	0.0048	<0.005	
4/1/2015			0.0062	0.0084	<0.005	0.0072
4/2/2015	<0.005	<0.005				
10/10/2015	0.0013					
10/11/2015			<0.005	0.019		
10/12/2015		<0.005				
10/14/2015					<0.005	
10/15/2015						0.0077
3/31/2016	<0.005	<0.005				
4/4/2016			0.00656 (J)	0.00728 (J)	<0.005	0.00615 (J)
5/26/2016	<0.005	<0.005	0.00752 (J)	0.00553 (J)		
5/27/2016					<0.005	
5/31/2016						0.00588 (J)
8/3/2016		<0.005	0.0067 (J)		<0.005	
8/4/2016				0.0071 (J)		0.0056 (J)
8/5/2016	<0.005					
9/28/2016	<0.005	<0.005	0.0082 (J)	0.0093 (J)		
9/29/2016						0.0065 (J)
9/30/2016					<0.005	
11/22/2016	0.0024 (J)	<0.005	0.0045 (J)	0.0058 (J)	<0.005	
11/28/2016						0.0064 (J)
2/7/2017	0.0015 (J)	0.0019 (J)				
2/8/2017			0.0101	0.0072 (J)		
2/9/2017						0.0078 (J)
2/13/2017					<0.005	
4/10/2017	<0.005	<0.005	0.0094 (J)	<0.005		
4/11/2017					<0.005	
4/12/2017						0.0077 (J)
6/14/2017	0.0006 (J)	<0.005			<0.005	
6/15/2017			0.009 (J)	0.0066 (J)		
6/16/2017						0.0072 (J)
10/4/2017	0.0027 (J)	<0.005	0.0008 (J)	0.0079 (J)	<0.005	
10/9/2017						0.0079 (J)
3/20/2018	<0.005					
3/21/2018		<0.005	0.0079 (J)			0.0055 (J)
3/22/2018				0.0062 (J)	<0.005	
9/18/2018	<0.005	<0.005	0.0081 (J)	0.0062 (J)	<0.005	
9/19/2018						0.0059 (J)
3/22/2019	<0.005	<0.005				
3/23/2019			<0.005	0.0048 (J)	<0.005	0.0058 (J)
9/17/2019	0.0009 (J)	0.00067 (J)	0.0079 (J)	0.0042 (J)	0.0033 (D)	
9/18/2019						0.0063 (J)
3/12/2020	0.00047 (J)	<0.005	0.00084 (J)	0.0042 (J)	<0.005	
3/13/2020						0.0054 (J)
9/17/2020	0.0011 (J)	<0.005				
9/21/2020			0.0081 (J)	0.0056 (J)	<0.005	
9/22/2020						0.0062 (J)
3/18/2021	0.00068 (J)	0.002 (J)				0.0058
3/19/2021			0.0073	0.0079	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						<0.005
8/23/2007				0.014	0.0076	
8/24/2007		0.083 (o)	0.061 (o)			
10/25/2007					0.015	0.002
11/1/2007	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	0.0049				0.013	
11/20/2007						0.017
1/15/2008		0.043	0.079 (o)	0.011		
1/23/2008					0.032	0.064 (o)
1/31/2008	<0.005					
3/5/2008	<0.005	0.0044				
3/6/2008				0.0027		
3/10/2008			0.062 (o)			
3/11/2008					0.024	0.013
5/7/2008	<0.005	0.0084		0.008		
5/12/2008					0.016	
5/13/2008			0.044 (o)			
5/14/2008						0.027
12/2/2008		0.0056	0.027	0.0059		
12/11/2008					0.013	<0.005
12/12/2008	0.019 (o)					
4/15/2009					0.0073	
4/16/2009		0.0042				
4/23/2009						<0.005
4/28/2009			0.016	<0.005		
4/29/2009	0.002					
10/9/2009					0.0037	0.0014
10/19/2009				<0.005		
10/20/2009		0.0037	0.018			
10/21/2009	0.002					
4/20/2010		<0.005				
4/27/2010			0.012	<0.005		
4/28/2010	0.0049					
5/4/2010					<0.005	<0.005
9/29/2010		0.0028				
10/4/2010				0.0013		
10/5/2010			0.0067			
10/6/2010	<0.005					
10/11/2010						0.0027
10/12/2010					0.0023	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			0.0081			
4/20/2011	<0.005					
4/26/2011						0.0015
4/28/2011					0.002	
10/4/2011		0.0015				
10/12/2011	<0.005		<0.005	0.0014		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						<0.005
10/19/2011					0.0015	
4/4/2012		<0.005				
4/23/2012				<0.005		
4/25/2012	<0.005		<0.005			
5/2/2012					<0.005	<0.005
10/2/2012	0.0015					
10/8/2012						<0.005
10/9/2012					<0.005	
10/10/2012		0.0029	<0.005	<0.005		
4/2/2013	0.0017					
4/10/2013						0.0013
4/11/2013					0.0015	
4/15/2013		0.0036		0.0021		
4/16/2013			0.0029			
10/8/2013	<0.005					0.0017
10/16/2013					<0.005	
10/22/2013		0.0048	<0.005	<0.005		
4/1/2014	<0.005					
4/14/2014						0.004
4/21/2014		0.0043	<0.005	0.0013 (J)		
4/23/2014					0.0013 (J)	
9/30/2014		0.0037	<0.005	<0.005		
10/1/2014	<0.005					
10/3/2014					<0.005	0.0017
3/31/2015	<0.005				<0.005	
4/1/2015						0.0027
4/3/2015		0.016	<0.005	<0.005		
10/6/2015			<0.005			
10/7/2015		0.0092		<0.005		
10/9/2015						0.0016
10/12/2015					<0.005	
10/14/2015	<0.005					
3/28/2016					<0.005	
3/29/2016						0.00738 (J)
4/4/2016	<0.005 (D)					
4/5/2016		0.019 (J)	<0.005	<0.005		
5/24/2016						0.00263 (J)
5/25/2016					<0.005	
5/31/2016			<0.005	<0.005		
6/1/2016	<0.005 (D)	0.006 (J)				
8/1/2016					<0.005	<0.005
8/4/2016				<0.005		
8/9/2016		0.0061 (JD)				
9/26/2016						0.0014 (J)
9/27/2016					<0.005	
9/29/2016				<0.005		
11/11/2016					<0.005	
11/18/2016						<0.005
11/23/2016			<0.005	<0.005		
11/28/2016		<0.005				
1/31/2017					<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						0.0024 (J)
2/9/2017		<0.005				
2/10/2017			<0.005	<0.005		
2/22/2017	0.0012 (J)					
4/3/2017					<0.005	
4/6/2017						<0.005
4/11/2017	<0.005	<0.005	<0.005			
4/12/2017				<0.005		
6/12/2017					0.0005 (J)	
6/13/2017						0.0031 (J)
6/14/2017		0.0006 (J)				
6/15/2017			0.0005 (J)	0.0005 (J)		
6/16/2017	<0.005					
7/12/2017	<0.005	0.0005 (J)	0.0008 (J)			
7/26/2017			0.0006 (J)			
7/28/2017	<0.005					
8/10/2017	<0.005					
10/3/2017					<0.005	0.0025 (J)
10/5/2017		0.0006 (J)				
10/6/2017	<0.005		0.0008 (J)	<0.005		
3/19/2018					<0.005	0.0035 (J)
3/22/2018		<0.005				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					<0.005	0.0024 (J)
9/19/2018		<0.005	<0.005	<0.005		
9/20/2018	<0.005					
3/20/2019					<0.005	
3/21/2019						0.0029 (J)
3/22/2019	<0.005	<0.005	<0.005			
3/25/2019				<0.005		
9/16/2019					<0.005	0.002 (J)
9/17/2019		0.00046 (X)	0.00064 (X)	0.00044 (J)		
9/18/2019	<0.005					
3/12/2020						0.0034 (J)
3/13/2020		0.00093 (J)	0.0012 (J)	0.0011 (J)		
3/16/2020					0.00078 (J)	
3/17/2020	0.002 (J)					
9/16/2020					<0.005	0.0022 (J)
9/21/2020		<0.005	0.00089 (J)	0.0016 (J)		
9/22/2020	<0.005					
3/17/2021					0.00069 (J)	0.0027 (J)
3/18/2021		0.0023 (J)	0.00078 (J)	0.00089 (J)		
3/19/2021	<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.005	<0.005
11/1/2007					0.0061	
11/2/2007						0.027
11/18/2007						0.17 (o)
11/19/2007					0.018 (J)	
1/15/2008					0.078 (o)	
1/31/2008						0.012
3/6/2008					0.054 (o)	
3/11/2008						0.063 (o)
5/13/2008					0.0085	
5/14/2008						0.057 (o)
12/5/2008						<0.005
12/12/2008					0.0023	
4/15/2009						<0.005
4/16/2009					<0.005	
10/8/2009						<0.005
10/13/2009					<0.005	
4/21/2010					<0.005	
4/28/2010						<0.005
9/29/2010					<0.005	
10/6/2010						<0.005
4/13/2011					<0.005	
4/21/2011						<0.005
10/5/2011					<0.005	
10/13/2011						<0.005
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						<0.005
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						<0.005
4/8/2013			<0.005		<0.005	
4/11/2013						<0.005
10/9/2013			0.0019		0.0013	
10/16/2013						0.0013
4/9/2014					<0.005	
4/10/2014			0.0034			
4/23/2014						<0.005
9/30/2014					<0.005	
10/2/2014			0.0056			
10/4/2014						<0.005
3/31/2015						<0.005
4/2/2015					<0.005	
4/3/2015			0.0022			
5/26/2015	0.0015			<0.005		
6/18/2015	0.0013 (D)			0.0024 (D)		
7/2/2015	0.0014			<0.005		
10/8/2015			0.0033	<0.005		
10/9/2015	0.0015					
10/10/2015					0.000825 (D)	
10/12/2015						<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				0.048 (o)		
3/23/2016						<0.005
3/29/2016	<0.005					
3/30/2016			0.0228 (o)		<0.005	
5/23/2016						<0.005
5/24/2016	<0.005		<0.005			
5/25/2016				0.00441 (J)		
5/26/2016					<0.005	
5/31/2016		<0.005				
7/29/2016						<0.005
8/1/2016	<0.005					
8/2/2016		<0.005	<0.005	<0.005		
8/5/2016					<0.005	
9/22/2016						0.0013 (J)
9/26/2016	0.002 (J)			0.002 (J)		
9/27/2016		<0.005	<0.005			
9/28/2016					<0.005	
11/10/2016						<0.005
11/14/2016	<0.005					
11/21/2016		<0.005		0.0017 (J)	<0.005	
11/22/2016			<0.005			
1/31/2017						<0.005
2/1/2017	0.0017 (J)	<0.005				
2/3/2017				0.0018 (J)		
2/6/2017			<0.005		<0.005	
3/30/2017						<0.005
4/6/2017	<0.005	<0.005	<0.005		<0.005	
4/7/2017				<0.005		
6/12/2017						<0.005
6/13/2017	0.0015 (J)	<0.005		0.0019 (J)	<0.005	
6/14/2017			0.0009 (J)			
7/14/2017		<0.005				
10/3/2017	0.0018 (J)	<0.005		0.0022 (J)	<0.005	
10/4/2017			<0.005			<0.005
3/19/2018						<0.005
3/20/2018	0.0017 (J)	<0.005		0.0017 (J)	<0.005	
3/21/2018			<0.005			
9/17/2018	0.002 (J)					<0.005
9/18/2018		<0.005	<0.005	<0.005	<0.005 (D)	
3/20/2019						<0.005
3/21/2019	0.0025 (J)	<0.005			<0.005	
3/27/2019			0.0021 (J)			
5/6/2019				0.0048 (J)		
9/13/2019		<0.005				0.00073 (J)
9/16/2019	0.002 (J)		0.000465 (JD)	0.002 (J)	<0.005	
3/11/2020						0.00095 (J)
3/12/2020	0.0028 (J)	0.0014 (J)	0.0031 (J)		0.00045 (J)	
3/16/2020				0.0015 (J)		
9/16/2020	0.0023 (J)	<0.005				
9/17/2020			0.00086 (J)	0.0017 (J)	<0.005	
3/17/2021	0.0021 (J)	<0.005	0.00079 (J)			
3/18/2021				0.0015 (J)	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						0.00062 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.01	<0.01	<0.01			
10/23/2007	<0.01					
10/24/2007		0.013	<0.01			
11/18/2007	<0.01	0.0041	<0.01			
1/30/2008	0.0045					
1/31/2008		<0.01	0.0083 (O)			
3/10/2008	<0.01		<0.01			
3/11/2008		<0.01				
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
12/4/2008		0.012	<0.01			
12/5/2008	<0.01					
12/12/2008					<0.01	<0.01
4/15/2009	<0.01					
4/21/2009		<0.01	<0.01			
4/23/2009					<0.01	0.0029
10/6/2009					<0.01	<0.01
10/7/2009	0.0041	<0.01				
10/8/2009			<0.01			
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010					<0.01	
5/3/2010	<0.01					<0.01
9/28/2010			<0.01			
9/30/2010					<0.01	
10/4/2010		<0.01				
10/11/2010						<0.01
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011					<0.01	
4/27/2011	<0.01					0.0028
10/4/2011			<0.01			
10/5/2011		<0.01			<0.01	
10/17/2011	<0.01					
10/19/2011						<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	<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01			
4/9/2013					<0.01	
4/10/2013						0.0014
4/11/2013			<0.01			
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01			<0.01	
10/16/2013	<0.01		<0.01			0.0014
4/10/2014			<0.01		<0.01	
4/11/2014	<0.01					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.01				0.0013
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014					<0.01	<0.01
3/30/2015	0.0012 (J)	<0.01	<0.01		<0.01	0.00079 (J)
10/11/2015					<0.01	<0.01
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	<0.01					
3/23/2016		<0.01	<0.01			
3/28/2016					<0.01	<0.01
5/19/2016	<0.01		<0.01			
5/20/2016		<0.01				
5/23/2016					<0.01	
5/25/2016						<0.01
7/29/2016	0.0004 (J)	<0.01	<0.01			
8/1/2016					<0.01	<0.01
9/22/2016			<0.01			
9/23/2016	<0.01	<0.01				
9/26/2016					<0.01	<0.01
11/9/2016	<0.01	<0.01				
11/10/2016			<0.01		<0.01	
11/11/2016						<0.01
1/30/2017	<0.01				<0.01	<0.01
1/31/2017		<0.01	<0.01			
2/22/2017				<0.01		
3/30/2017	<0.01	<0.01				
4/3/2017			<0.01			<0.01
4/7/2017				0.0018 (J)	<0.01	
6/9/2017	<0.01		<0.01			
6/12/2017		<0.01			<0.01	<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	<0.01
10/3/2017				0.0028 (J)		
3/16/2018	<0.01		<0.01		<0.01	<0.01
3/19/2018		<0.01				
3/21/2018				0.014		
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)				<0.01	
9/18/2018				0.017		<0.01
3/19/2019			<0.01		<0.01	<0.01
3/20/2019	0.00078 (J)	<0.01				
3/21/2019				0.022		
9/12/2019	0.00047 (J)	<0.01 (D)		0.02		<0.01
9/13/2019			<0.01		<0.01	
3/11/2020	0.00037 (J)	<0.01	<0.01		<0.01	<0.01
3/12/2020				0.013		
9/15/2020	0.00048 (J)	<0.01	0.001 (J)			<0.01
9/16/2020					<0.01	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				0.019		
3/16/2021	<0.01		<0.01	0.015		
3/17/2021		<0.01			<0.01	<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.01	<0.01	0.0031	<0.01	<0.01	0.01
11/1/2007	<0.01	<0.01	0.0034	<0.01	0.0041	<0.01
11/18/2007			0.0045	<0.01		
11/19/2007					0.0055	<0.01
11/20/2007	0.0046	<0.01				
1/16/2008					0.008	
1/30/2008	0.0079	<0.01	0.0027	<0.01		
1/31/2008						0.0037
3/5/2008			<0.01		0.98 (o)	<0.01
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					<0.01
5/13/2008					0.01	
12/13/2008	0.013				0.0073	0.011
12/14/2008		<0.01	<0.01	<0.01		
4/16/2009					0.0033	
4/28/2009						<0.01
4/29/2009	<0.01	<0.01	<0.01	<0.01		
10/20/2009	<0.01					
10/21/2009		<0.01			0.0039	<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					0.0044	
4/28/2010						<0.01
9/28/2010		<0.01	<0.01			
9/29/2010	<0.01			<0.01		
10/5/2010					0.005	<0.01
4/12/2011		<0.01	<0.01			
4/13/2011	<0.01			<0.01		
4/19/2011					0.0039	<0.01
10/4/2011		<0.01	<0.01	<0.01		
10/5/2011	<0.01					
10/12/2011					0.0032	
10/18/2011						<0.01
4/3/2012		<0.01	<0.01			
4/4/2012	<0.01			<0.01		
4/24/2012					<0.01	
4/25/2012						<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	<0.01
4/3/2013	0.0014	<0.01	<0.01	<0.01		
10/8/2013						<0.01
10/9/2013			<0.01	<0.01	0.003	
10/15/2013	0.0018	<0.01				
4/1/2014					0.0027	<0.01
4/2/2014			0.0036	<0.01		
4/9/2014	0.0013 (J)	<0.01				
10/1/2014						<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.01	<0.01	0.016	<0.01	0.0027	
4/1/2015			<0.01	0.0026	0.0028	<0.01
4/2/2015	<0.01	<0.01				
10/10/2015	<0.01					
10/11/2015			<0.01	0.00065 (J)		
10/12/2015		<0.01				
10/14/2015					0.003	
10/15/2015						0.00051 (J)
3/31/2016	<0.01	<0.01				
4/4/2016			<0.01	<0.01	0.00351 (J)	<0.01
5/26/2016	<0.01	<0.01	<0.01	<0.01		
5/27/2016					0.00332 (J)	
5/31/2016						<0.01
8/3/2016		<0.01	<0.01		0.003 (J)	
8/4/2016				<0.01		<0.01
8/5/2016	<0.01					
9/28/2016	<0.01	<0.01	<0.01	<0.01		
9/29/2016						<0.01
9/30/2016					0.0035 (J)	
11/22/2016	0.0006 (J)	<0.01	<0.01	<0.01	0.0027 (J)	
11/28/2016						<0.01
2/7/2017	0.0017 (J)	<0.01				
2/8/2017			<0.01	<0.01		
2/9/2017						<0.01
2/13/2017					0.003 (J)	
4/10/2017	<0.01	<0.01	<0.01	<0.01		
4/11/2017					0.0031 (J)	
4/12/2017						<0.01
6/14/2017	<0.01	<0.01			0.0031 (J)	
6/15/2017			<0.01	<0.01		
6/16/2017						<0.01
10/4/2017	<0.01	<0.01	<0.01	<0.01	0.0032 (J)	
10/9/2017						<0.01
3/20/2018	0.0021 (J)					
3/21/2018		<0.01	<0.01			<0.01
3/22/2018				<0.01	0.0033 (J)	
9/18/2018	<0.01	<0.01	<0.01	<0.01	0.0031 (J)	
9/19/2018						<0.01
3/22/2019	0.0011 (J)	<0.01				
3/23/2019			<0.01	<0.01	0.0032 (J)	<0.01
9/17/2019	<0.01	<0.01	<0.01	<0.01	0.00305 (D)	
9/18/2019						0.0005 (J)
3/12/2020	0.0017 (J)	<0.01	<0.01	<0.01	0.0031 (J)	
3/13/2020						<0.01
9/17/2020	<0.01	<0.01				
9/21/2020			<0.01	<0.01	0.0029 (J)	
9/22/2020						<0.01
3/18/2021	0.001 (J)	<0.01				<0.01
3/19/2021			<0.01	<0.01	0.0029 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.01					
8/22/2007						<0.01
8/23/2007				<0.01	<0.01	
8/24/2007		<0.01	<0.01			
10/25/2007					<0.01	0.0038
11/1/2007	<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	
11/20/2007						<0.01
1/15/2008		<0.01	0.0029	<0.01		
1/23/2008					0.0073	0.0047
1/31/2008	<0.01					
3/5/2008	<0.01	0.005				
3/6/2008				<0.01		
3/10/2008			0.069 (o)			
3/11/2008					0.0025	<0.01
5/7/2008	<0.01	<0.01		<0.01		
5/12/2008					<0.01	
5/13/2008			<0.01			
5/14/2008						<0.01
12/2/2008		0.011	0.0027	<0.01		
12/11/2008					<0.01	<0.01
12/12/2008	0.0079					
4/15/2009					<0.01	
4/16/2009		0.005				
4/23/2009						<0.01
4/28/2009			<0.01	<0.01		
4/29/2009	<0.01					
10/9/2009					<0.01	<0.01
10/19/2009				<0.01		
10/20/2009		0.0074	<0.01			
10/21/2009	<0.01					
4/20/2010		<0.01				
4/27/2010			<0.01	<0.01		
4/28/2010	<0.01					
5/4/2010					<0.01	<0.01
9/29/2010		<0.01				
10/4/2010				<0.01		
10/5/2010			<0.01			
10/6/2010	<0.01					
10/11/2010						<0.01
10/12/2010					<0.01	
4/12/2011		<0.01				
4/18/2011				<0.01		
4/19/2011			<0.01			
4/20/2011	<0.01					
4/26/2011						<0.01
4/28/2011					<0.01	
10/4/2011		<0.01				
10/12/2011	<0.01		<0.01	<0.01		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.01	<0.01
10/2/2012	<0.01					
10/8/2012						<0.01
10/9/2012					0.0024	
10/10/2012		<0.01	<0.01	<0.01		
4/2/2013	<0.01					
4/10/2013						<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					
4/14/2014						0.0013 (J)
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					
10/3/2014					0.0034	0.00071 (J)
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		
10/9/2015						<0.01
10/12/2015					0.00063 (J)	
10/14/2015	<0.01					
3/28/2016					<0.01	
3/29/2016						<0.01
4/4/2016	<0.01					
4/5/2016		<0.01	<0.01	<0.01		
5/24/2016						<0.01
5/25/2016					<0.01	
5/31/2016			<0.01	<0.01		
6/1/2016	<0.01	<0.01				
8/1/2016					0.0005 (J)	<0.01
8/4/2016				<0.01		
8/9/2016		0.0003 (J)				
9/26/2016						<0.01
9/27/2016					<0.01	
9/29/2016				<0.01		
11/11/2016					0.0006 (J)	
11/18/2016						<0.01
11/23/2016			<0.01	<0.01		
11/28/2016		<0.01				
1/31/2017					0.0007 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.01
2/9/2017		<0.01				
2/10/2017			<0.01	<0.01		
2/22/2017	<0.01					
4/3/2017					0.0005 (J)	
4/6/2017						<0.01
4/11/2017	<0.01	<0.01	<0.01			
4/12/2017				0.0006 (J)		
6/12/2017					0.0004 (J)	
6/13/2017						<0.01
6/14/2017		<0.01				
6/15/2017			<0.01	0.0004 (J)		
6/16/2017	<0.01					
7/12/2017	<0.01	<0.01	<0.01			
7/26/2017			<0.01			
7/28/2017	<0.01					
8/10/2017	<0.01					
10/3/2017					0.0003 (J)	<0.01
10/5/2017		<0.01				
10/6/2017	<0.01		<0.01	<0.01		
3/19/2018					<0.01	<0.01
3/22/2018		<0.01				
3/23/2018	<0.01		<0.01	<0.01		
9/17/2018					<0.01	<0.01
9/19/2018		0.00058 (J)	<0.01	<0.01		
9/20/2018	<0.01					
3/20/2019					<0.01	
3/21/2019						<0.01
3/22/2019	<0.01	<0.01	<0.01			
3/25/2019				<0.01		
9/16/2019					<0.01	<0.01
9/17/2019		<0.01	<0.01	<0.01		
9/18/2019	<0.01					
3/12/2020						<0.01
3/13/2020		<0.01	<0.01	<0.01		
3/16/2020					0.00031 (J)	
3/17/2020	<0.01					
9/16/2020					<0.01	<0.01
9/21/2020		<0.01	<0.01	<0.01		
9/22/2020	<0.01					
3/17/2021					<0.01	<0.01
3/18/2021		<0.01	<0.01	<0.01		
3/19/2021	<0.01					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.01	0.0033
11/1/2007					<0.01	
11/2/2007						0.0046
11/18/2007						0.0057
11/19/2007					0.0034	
1/15/2008					0.0067	
1/31/2008						0.0055
3/6/2008					0.13 (o)	
3/11/2008						0.0033
5/13/2008					<0.01	
5/14/2008						0.0044
12/5/2008						0.0035
12/12/2008					0.0042	
4/15/2009						<0.01
4/16/2009					0.0047	
10/8/2009						<0.01
10/13/2009					0.0037	
4/21/2010					<0.01	
4/28/2010						<0.01
9/29/2010					<0.01	
10/6/2010						<0.01
4/13/2011					<0.01	
4/21/2011						<0.01
10/5/2011					<0.01	
10/13/2011						<0.01
10/18/2011			<0.01			
4/4/2012					<0.01	
4/30/2012			<0.01			
5/1/2012						<0.01
10/3/2012			<0.01			
10/8/2012					<0.01	
10/9/2012						<0.01
4/8/2013			<0.01		<0.01	
4/11/2013						<0.01
10/9/2013			<0.01		0.0013	
10/16/2013						<0.01
4/9/2014					0.0013 (J)	
4/10/2014			0.0013 (J)			
4/23/2014						0.0013 (J)
9/30/2014					<0.01	
10/2/2014			<0.01			
10/4/2014						0.00081 (J)
3/31/2015						0.0021
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					
10/10/2015				0.0015 (D)		
10/12/2015						0.00078 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.01		
3/23/2016						<0.01
3/29/2016	<0.01					
3/30/2016			<0.01		<0.01	
5/23/2016						<0.01
5/24/2016	<0.01		<0.01			
5/25/2016				<0.01		
5/26/2016					<0.01	
5/31/2016		<0.01				
7/29/2016						0.0007 (J)
8/1/2016	<0.01					
8/2/2016		0.0018 (J)	<0.01	<0.01		
8/5/2016					<0.01	
9/22/2016						0.0007 (J)
9/26/2016	<0.01			<0.01		
9/27/2016		0.0011 (J)	<0.01			
9/28/2016					<0.01	
11/10/2016						0.0007 (J)
11/14/2016	<0.01					
11/21/2016		0.0008 (J)		<0.01	<0.01	
11/22/2016			<0.01			
1/31/2017						0.0007 (J)
2/1/2017	<0.01	0.0008 (J)				
2/3/2017				<0.01		
2/6/2017			<0.01		<0.01	
3/30/2017						0.0007 (J)
4/6/2017	<0.01	0.0008 (J)	<0.01		<0.01	
4/7/2017				<0.01		
6/12/2017						0.0007 (J)
6/13/2017	<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	0.0007 (J)		<0.01	<0.01	
10/4/2017			<0.01			0.0006 (J)
3/19/2018						0.00059 (J)
3/20/2018	<0.01	0.00076 (J)		<0.01	<0.01	
3/21/2018			<0.01			
9/17/2018	<0.01					0.00057 (J)
9/18/2018		0.00055 (J)	<0.01	<0.01	<0.01 (D)	
3/20/2019						<0.01
3/21/2019	<0.01	0.00059 (J)			<0.01	
3/27/2019			<0.01			
5/6/2019				<0.01		
9/13/2019		0.00099 (J)				0.00046 (J)
9/16/2019	<0.01		<0.01 (D)	<0.01	<0.01	
3/11/2020						0.00041 (J)
3/12/2020	<0.01	0.00031 (J)	<0.01		0.00044 (J)	
3/16/2020				<0.01		
9/16/2020	<0.01	0.00072 (J)				
9/17/2020			<0.01	<0.01	<0.01	
3/17/2021	<0.01	0.00045 (J)	<0.01			
3/18/2021				<0.01	<0.01	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.01

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	0.0066	<0.005	0.0036			
10/23/2007	0.0076					
10/24/2007		0.0088	<0.005			
11/18/2007	0.0055 (J)	0.0075	0.013			
1/30/2008	0.0094					
1/31/2008		<0.005	0.0069			
3/10/2008	0.0056		0.0044			
3/11/2008		0.0068				
5/6/2008		<0.005				
5/13/2008	0.0027		0.0033			
12/4/2008		0.013	<0.005			
12/5/2008	<0.005					
12/12/2008					0.018	0.064 (O)
4/15/2009	<0.005					
4/21/2009		<0.005	<0.005			
4/23/2009					0.013	0.034
10/6/2009					0.012	0.026
10/7/2009	0.0076	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010					0.0095	
5/3/2010	<0.005					0.014
9/28/2010			<0.005			
9/30/2010					0.0087	
10/4/2010		0.0027				
10/11/2010						0.014
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		0.0029				
4/14/2011					0.0061	
4/27/2011	<0.005					0.028
10/4/2011			<0.005			
10/5/2011		<0.005			<0.005	
10/17/2011	<0.005					
10/19/2011						<0.005
4/3/2012			<0.005			
4/11/2012		<0.005			<0.005	
5/1/2012						0.0198
5/2/2012	<0.005					
10/2/2012					<0.005	0.011
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013					0.0053	
4/10/2013						0.018
4/11/2013			<0.005			
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005			0.0076	
10/16/2013	<0.005		<0.005			0.016
4/10/2014			0.005 (J)		0.005	
4/11/2014	0.005 (J)					

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				0.014
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					0.0047 (J)	0.0041 (J)
3/30/2015	0.0033 (J)	<0.005	<0.005		0.0048 (J)	0.012
10/11/2015					0.0055	0.0049 (J)
10/13/2015	0.0013 (J)	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	0.00734 (J)
7/29/2016	<0.005	0.0032 (J)	0.0006 (J)			
8/1/2016					0.0025 (J)	0.0049 (J)
3/30/2017	0.0004 (J)	<0.005				
4/3/2017			0.0004 (J)			0.0023 (J)
4/7/2017				0.0004 (J)	0.003 (J)	
10/2/2017	0.0003 (J)	<0.005	0.0003 (J)		0.0031 (J)	0.0023 (J)
10/3/2017				<0.005		
3/16/2018	<0.005		<0.005		0.0037 (J)	0.0035 (J)
3/19/2018		0.0025 (J)				
3/21/2018				<0.005		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				0.0028 (J)	
9/18/2018				<0.005		0.0041 (J)
3/19/2019			<0.005		0.0023 (J)	0.0029 (J)
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	<0.005	0.01273 (D)		0.00045 (J)		0.0028 (J)
9/13/2019			0.00055 (J)		0.0023 (J)	
3/11/2020	<0.005	0.0002 (J)	0.0011 (J)		0.0026 (J)	0.0035 (J)
3/12/2020				0.0002 (J)		
9/15/2020	<0.005	<0.005	<0.005			0.0031 (J)
9/16/2020					0.0018 (J)	
9/17/2020				<0.005		
3/16/2021	<0.005		<0.005	<0.005		
3/17/2021		<0.005			0.0019 (J)	0.0024 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	0.0058	0.007	<0.005	0.0032	<0.005	<0.005
11/1/2007	<0.005	<0.005	<0.005	0.0031	<0.005	<0.005
11/18/2007			<0.005	<0.005		
11/19/2007					0.0029	0.0035
11/20/2007	0.006	0.0032				
1/16/2008					0.0067	
1/30/2008	0.0037	0.0039	<0.005	<0.005		
1/31/2008						<0.005
3/5/2008			<0.005		0.0058	<0.005
3/6/2008	0.004	<0.005		<0.005		
5/7/2008			0.0037	0.0029		
5/8/2008		0.0039				
5/12/2008	<0.005					<0.005
5/13/2008					<0.005	
12/13/2008	0.0051				<0.005	0.0028
12/14/2008		0.0046	<0.005	<0.005		
4/16/2009					0.0032	
4/28/2009						<0.005
4/29/2009	0.003	<0.005	<0.005	<0.005		
10/20/2009	<0.005					
10/21/2009		<0.005			<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					0.0034	
4/28/2010						<0.005
9/28/2010		<0.005	0.0028			
9/29/2010	<0.005			<0.005		
10/5/2010					<0.005	<0.005
4/12/2011		<0.005	<0.005			
4/13/2011	<0.005			<0.005		
4/19/2011					<0.005	<0.005
10/4/2011		<0.005	0.013	<0.005		
10/5/2011	<0.005					
10/12/2011					<0.005	
10/18/2011						<0.005
4/3/2012		<0.005	<0.005			
4/4/2012	<0.005			<0.005		
4/24/2012					<0.005	
4/25/2012						<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					0.0063	<0.005
4/3/2013	<0.005	<0.005	<0.005	<0.005		
10/8/2013						<0.005
10/9/2013			<0.005	<0.005	<0.005	
10/15/2013	<0.005	<0.005				
4/1/2014					<0.005	<0.005
4/2/2014			<0.005	0.005 (J)		
4/9/2014	<0.005	<0.005				
10/1/2014						<0.005

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.005	<0.005	0.00084 (J)	0.0022 (J)	<0.005	
4/1/2015			<0.005	0.019	<0.005	<0.005
4/2/2015	<0.005	<0.005				
10/10/2015	0.0027 (J)					
10/11/2015			<0.005	0.013		
10/12/2015		<0.005				
10/14/2015					0.0017 (J)	
10/15/2015						<0.005
3/31/2016	<0.005	<0.005				
4/4/2016			<0.005	<0.005	<0.005	<0.005
8/3/2016		<0.005	<0.005		<0.005	
8/4/2016				<0.005		<0.005
8/5/2016	<0.005					
4/10/2017	<0.005	<0.005	<0.005	<0.005		
4/11/2017					0.0003 (J)	
4/12/2017						0.0003 (J)
10/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
10/9/2017						0.0005 (J)
3/20/2018	<0.005					
3/21/2018		<0.005	<0.005			<0.005
3/22/2018				<0.005	<0.005	
9/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
9/19/2018						<0.005
3/22/2019	<0.005	<0.005				
3/23/2019			<0.005	<0.005	<0.005	<0.005
9/17/2019	<0.005	0.00029 (J)	<0.005	0.00031 (J)	<0.005 (D)	
9/18/2019						0.00057 (J)
3/12/2020	<0.005	<0.005	0.00023 (J)	0.00032 (J)	<0.005	
3/13/2020						0.00033 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005	<0.005	<0.005	
9/22/2020						<0.005
3/18/2021	<0.005	<0.005				<0.005
3/19/2021			<0.005	0.0018 (J)	<0.005	

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						0.0033
8/23/2007				<0.005	0.0064	
8/24/2007		0.0048 (J)	0.021			
10/25/2007					0.0081	<0.005
11/1/2007	<0.005					
11/2/2007		<0.005	0.0037	<0.005		
11/17/2007		0.0031		0.02		
11/18/2007			0.007 (J)			
11/19/2007	0.0043				0.0059	
11/20/2007						0.0052
1/15/2008		0.0033	0.0055	0.0043		
1/23/2008					0.018	0.0069
1/31/2008	<0.005					
3/5/2008	<0.005	0.0026				
3/6/2008				<0.005		
3/10/2008			0.0042			
3/11/2008					0.027	0.0029
5/7/2008	<0.005	0.0028		0.0026		
5/12/2008					0.016	
5/13/2008			<0.005			
5/14/2008						0.0035
12/2/2008		0.0029	0.0039	<0.005		
12/11/2008					0.016	<0.005
12/12/2008	0.013					
4/15/2009					0.017	
4/16/2009		0.0035				
4/23/2009						0.0038
4/28/2009			<0.005	0.003		
4/29/2009	0.0029					
10/9/2009					0.045	0.0032
10/19/2009				<0.005		
10/20/2009		0.0056	<0.005			
10/21/2009	<0.005					
4/20/2010		<0.005				
4/27/2010			<0.005	<0.005		
4/28/2010	0.0032					
5/4/2010					0.031	<0.005
9/29/2010		<0.005				
10/4/2010				0.0025		
10/5/2010			<0.005			
10/6/2010	<0.005					
10/11/2010						0.0029
10/12/2010					0.024	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			<0.005			
4/20/2011	<0.005					
4/26/2011						<0.005
4/28/2011					0.0044	
10/4/2011		<0.005				
10/12/2011	<0.005		<0.005	<0.005		

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						<0.005
10/19/2011					0.038	
4/4/2012		<0.005				
4/23/2012				<0.005		
4/25/2012	<0.005		<0.005			
5/2/2012					0.0865 (O)	<0.005
10/2/2012	<0.005					
10/8/2012						<0.005
10/9/2012					0.053	
10/10/2012		<0.005	<0.005	<0.005		
4/2/2013	<0.005					
4/10/2013						<0.005
4/11/2013					0.04	
4/15/2013		<0.005		<0.005		
4/16/2013			<0.005			
10/8/2013	<0.005					<0.005
10/16/2013					0.054	
10/22/2013		<0.005	<0.005	<0.005		
4/1/2014	0.005 (J)					
4/14/2014						0.005 (J)
4/21/2014		<0.005	0.005 (J)	<0.005		
4/23/2014					0.054	
9/30/2014		<0.005	<0.005	<0.005		
10/1/2014	<0.005					
10/3/2014					0.066	0.00091 (J)
3/31/2015	<0.005				0.025	
4/1/2015						0.0011 (J)
4/3/2015		<0.005	<0.005	<0.005		
10/6/2015			<0.005			
10/7/2015		0.0012 (J)		0.00093 (J)		
10/9/2015						<0.005
10/12/2015					0.018	
10/14/2015	<0.005					
3/28/2016					0.0256	
3/29/2016						<0.005
4/4/2016	<0.005					
4/5/2016		<0.005	<0.005	<0.005		
8/1/2016					0.0178 (J)	<0.005
8/4/2016				0.0007 (J)		
8/9/2016		<0.005				
4/3/2017					0.0272	
4/6/2017						<0.005
4/11/2017	<0.005	<0.005	0.0003 (J)			
4/12/2017				<0.005		
10/3/2017					0.0239 (J)	<0.005
10/5/2017		<0.005				
10/6/2017	<0.005		<0.005	0.0003 (J)		
3/19/2018					0.021 (J)	<0.005
3/22/2018		<0.005				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					0.018 (J)	<0.005
9/19/2018		<0.005	<0.005	<0.005		

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/20/2018	<0.005					
3/20/2019					0.023 (J)	
3/21/2019						0.0018 (J)
3/22/2019	<0.005	<0.005	<0.005			
3/25/2019				<0.005		
9/16/2019					0.016 (J)	<0.005
9/17/2019		<0.005	<0.005	<0.005		
9/18/2019	0.00021 (X)					
3/12/2020						<0.005
3/13/2020		<0.005	0.0002 (J)	0.00029 (J)		
3/16/2020					0.012 (J)	
3/17/2020	0.00045 (J)					
9/16/2020					0.017 (J)	<0.005
9/21/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005					
3/17/2021					0.019	<0.005
3/18/2021		<0.005	<0.005	<0.005		
3/19/2021	<0.005					

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.005	0.017
11/1/2007					0.0047	
11/2/2007						0.016
11/18/2007						0.048
11/19/2007					0.0067 (J)	
1/15/2008					0.01	
1/31/2008						0.039
3/6/2008					0.007	
3/11/2008						0.037
5/13/2008					<0.005	
5/14/2008						0.051
12/5/2008						0.038
12/12/2008					0.0048	
4/15/2009						0.033
4/16/2009					0.0042	
10/8/2009						0.037
10/13/2009					0.0034	
4/21/2010					<0.005	
4/28/2010						0.037
9/29/2010					<0.005	
10/6/2010						0.041
4/13/2011					<0.005	
4/21/2011						0.034
10/5/2011					<0.005	
10/13/2011						0.048
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						0.0427
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						0.038
4/8/2013			<0.005		<0.005	
4/11/2013						0.038
10/9/2013			<0.005		<0.005	
10/16/2013						0.036
4/9/2014					<0.005	
4/10/2014			<0.005			
4/23/2014						0.03
9/30/2014					<0.005	
10/2/2014			<0.005			
10/4/2014						0.029
3/31/2015						0.026
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			0.002 (J)	0.00091 (J)		
10/9/2015	<0.005					
10/10/2015					0.00345 (D)	
10/12/2015						0.05

Time Series

Constituent: Copper (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.005		
3/23/2016						0.0297
3/29/2016	<0.005					
3/30/2016			<0.005		<0.005	
7/29/2016						0.0419
8/1/2016	<0.005					
8/2/2016		<0.005	<0.005	<0.005		
8/5/2016					<0.005	
3/30/2017						0.0392
4/6/2017	<0.005	0.0004 (J)	<0.005		0.0003 (J)	
4/7/2017				<0.005		
10/3/2017	<0.005	0.0006 (J)		0.0003 (J)	<0.005	
10/4/2017			<0.005			0.0343
3/19/2018						0.033
3/20/2018	<0.005	<0.005		<0.005	<0.005	
3/21/2018			<0.005			
9/17/2018	<0.005					0.033
9/18/2018		<0.005	<0.005	<0.005	<0.005 (D)	
3/20/2019						0.026
3/21/2019	<0.005	<0.005			<0.005	
3/27/2019			<0.005			
5/6/2019				<0.005		
9/13/2019		0.00025 (J)				0.026
9/16/2019	<0.005		<0.005 (D)	<0.005	0.00021 (J)	
3/11/2020						0.027
3/12/2020	0.00028 (J)	0.00021 (J)	<0.005		0.00031 (J)	
3/16/2020				0.00024 (J)		
9/16/2020	<0.005	<0.005				
9/17/2020			<0.005	<0.005	<0.005	
3/17/2021	<0.005	<0.005	<0.005			
3/18/2021				<0.005	<0.005	
3/29/2021						<0.005

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	0.0614 (J)					
3/23/2016		0.0477 (J)	0.0826 (J)			
3/28/2016					0.0314 (J)	0.0326 (J)
5/19/2016	0.064 (J)		0.0409 (J)			
5/20/2016		0.033 (J)				
5/23/2016					0.027 (J)	
5/25/2016						0.0285 (J)
7/29/2016	0.11 (J)	0.16 (J)	0.07 (J)			
8/1/2016					<0.1	<0.1
9/22/2016			<0.1			
9/23/2016	0.03 (J)	0.1 (J)				
9/26/2016					<0.1	<0.1
11/9/2016	0.1 (J)	0.04 (J)				
11/10/2016			0.03 (J)		0.04 (J)	
11/11/2016						<0.1
1/30/2017	<0.1				<0.1	<0.1
1/31/2017		<0.1	<0.1			
2/22/2017				0.3		
3/30/2017	0.01 (J)	0.02 (J)				
4/3/2017			0.02 (J)			0.04 (J)
4/7/2017				0.19 (J)	<0.1	
6/9/2017	0.04 (J)		0.06 (J)			
6/12/2017		0.17 (J)			0.07 (J)	0.06 (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				<0.1		
8/24/2017				0.16 (J)		
10/2/2017	0.07 (J)	<0.1	<0.1		<0.1	<0.1
10/3/2017				0.17 (J)		
3/16/2018	0.029 (J)		<0.1		<0.1	<0.1
3/19/2018		1.1 (o)				
3/21/2018				0.24 (J)		
9/14/2018		<0.1	<0.1			
9/17/2018	<0.1 (D)				<0.1	
9/18/2018				<0.1		<0.1
3/19/2019			0.056 (J)		<0.1	<0.1
3/20/2019	<0.1	<0.1				
3/21/2019				0.19 (J)		
9/12/2019	0.051 (J)	<0.1 (D)		0.1 (J)		<0.1
9/13/2019			0.055 (J)		<0.1	
3/11/2020	0.052 (J)	<0.1	0.052 (J)		<0.1	<0.1
3/12/2020				0.18 (J)		
9/15/2020	0.05 (J)	<0.1	<0.1			<0.1
9/16/2020					<0.1	
9/17/2020				0.12 (J)		
3/16/2021	<0.1		<0.1	0.1		
3/17/2021		<0.1			<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	0.0389 (J)	0.0209 (J)				
4/4/2016			0.0357 (J)	0.022 (J)	0.035 (J)	0.026 (J)
5/26/2016	0.0375 (J)	0.037 (J)	0.042 (J)	0.023 (J)		
5/27/2016					0.032 (J)	
5/31/2016						0.0234 (J)
8/3/2016		<0.1	0.04 (J)		<0.1	
8/4/2016				0.05 (J)		0.09 (J)
8/5/2016	0.03 (J)					
9/28/2016	<0.1	0.05 (J)	<0.1	<0.1		
9/29/2016						<0.1
9/30/2016					<0.1	
11/22/2016	0.04 (J)	0.04 (J)	0.06 (J)	0.04 (J)	0.03 (J)	
11/28/2016						0.08 (J)
2/7/2017	<0.1	<0.1				
2/8/2017			0.05 (J)	<0.1		
2/9/2017						0.24 (J)
2/13/2017					<0.1	
4/10/2017	<0.1	<0.1	<0.1	<0.1		
4/11/2017					<0.1	
4/12/2017						<0.1
6/14/2017	0.02 (J)	<0.1			0.01 (J)	
6/15/2017			0.03 (J)	<0.1		
6/16/2017						0.04 (J)
10/4/2017	<0.1	<0.1	<0.1	<0.1	<0.1	
10/9/2017						<0.1
3/20/2018	<0.1					
3/21/2018		<0.1	<0.1			<0.1
3/22/2018				<0.1	<0.1	
9/18/2018	<0.1	<0.1	<0.1	<0.1	<0.1	
9/19/2018						<0.1
3/22/2019	0.045 (J)	<0.1				
3/23/2019			<0.1	<0.1	<0.1	<0.1
9/17/2019	<0.1	<0.1	<0.1	<0.1	<0.1 (D)	
9/18/2019						<0.1
3/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1	
3/13/2020						<0.1
9/17/2020	<0.1	<0.1				
9/21/2020			<0.1	<0.1	<0.1	
9/22/2020						<0.1
3/18/2021	<0.1	<0.1				<0.1
3/19/2021			<0.1	<0.1	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					0.00421 (J)	
3/29/2016						0.0376 (J)
4/4/2016	0.044 (J)					
4/5/2016		1.78243 (J,o)	0.011 (J)	0.00288 (J)		
5/24/2016						0.023 (J)
5/25/2016					0.0207 (J)	
5/31/2016			0.0669 (J)	0.0233 (J)		
6/1/2016	0.0338 (J)	0.0148 (J)				
8/1/2016					<0.1	<0.1
8/4/2016				<0.1		
8/9/2016		0.04 (J)				
9/26/2016						<0.1
9/27/2016					<0.1	
9/29/2016				<0.1		
11/11/2016					0.04 (J)	
11/18/2016						0.02 (J)
11/23/2016			0.03 (J)	0.04 (J)		
11/28/2016		0.07 (J)				
1/31/2017					<0.1	
2/1/2017						<0.1
2/9/2017		0.08 (J)				
2/10/2017			<0.1	<0.1		
2/22/2017	0.22 (J)					
4/3/2017					<0.1	
4/6/2017						<0.1
4/11/2017	0.16 (J)	<0.1	<0.1			
4/12/2017				<0.1		
6/12/2017					0.02 (J)	
6/13/2017						0.006 (J)
6/14/2017		0.01 (J)				
6/15/2017			0.02 (J)	0.06 (J)		
6/16/2017	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	<0.1					
10/3/2017					<0.1	<0.1
10/5/2017		<0.1				
10/6/2017	0.14 (J)		<0.1	<0.1		
3/19/2018					<0.1	<0.1
3/22/2018		<0.1				
3/23/2018	0.24 (J)		<0.1	<0.1		
9/17/2018					<0.1	<0.1
9/19/2018		<0.1	<0.1	<0.1		
9/20/2018	<0.1					
3/20/2019					<0.1	
3/21/2019						<0.1
3/22/2019	0.12 (J)	<0.1	<0.1			
3/25/2019				<0.1		
9/16/2019					<0.1	<0.1
9/17/2019		<0.1	<0.1	<0.1		
9/18/2019	0.17 (X)					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/12/2020						<0.1
3/13/2020		<0.1	<0.1	<0.1		
3/16/2020					<0.1	
3/17/2020	0.11 (J)					
9/16/2020					<0.1	<0.1
9/21/2020		<0.1	<0.1	<0.1		
9/22/2020	0.1 (J)					
3/17/2021					<0.1	<0.1
3/18/2021		<0.1	<0.1	<0.1		
3/19/2021	0.12					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				0.00323 (J)		
3/23/2016						<0.1
3/29/2016	0.00363 (J)					
3/30/2016			0.00345 (J)		0.0518 (J)	
5/23/2016						<0.1
5/24/2016	0.0286 (J)		0.019 (J)			
5/25/2016				0.0345 (J)		
5/26/2016					0.0307 (J)	
5/31/2016		0.043 (J)				
7/29/2016						<0.1
8/1/2016	0.08 (J)					
8/2/2016		<0.1	<0.1	0.08 (J)		
8/5/2016					<0.1	
9/22/2016						<0.1
9/26/2016	<0.1			0.07 (J)		
9/27/2016		<0.1	<0.1			
9/28/2016					<0.1	
11/10/2016						<0.1
11/14/2016	0.08 (J)					
11/21/2016		0.22 (J)		0.07 (J)	0.05 (J)	
11/22/2016			0.02 (J)			
1/31/2017						<0.1
2/1/2017	<0.1	<0.1				
2/3/2017				<0.1		
2/6/2017			<0.1		<0.1	
3/30/2017						<0.1
4/6/2017	<0.1	0.008 (J)	<0.1		<0.1	
4/7/2017				0.03 (J)		
6/12/2017						<0.1
6/13/2017	0.05 (J)	0.03 (J)		0.05 (J)	<0.1	
6/14/2017			<0.1			
7/14/2017		0.05 (J)				
10/3/2017	<0.1	0.06 (J)		0.1 (J)	<0.1	
10/4/2017			<0.1			<0.1
3/19/2018						<0.1
3/20/2018	<0.1	<0.1		<0.1	<0.1	
3/21/2018			<0.1			
9/17/2018	<0.1					<0.1
9/18/2018		<0.1	<0.1	<0.1	<0.1 (D)	
3/20/2019						<0.1
3/21/2019	<0.1	<0.1			<0.1	
3/27/2019			<0.1			
5/6/2019				<0.1		
9/13/2019		<0.1				<0.1
9/16/2019	<0.1		<0.1 (D)	<0.1	<0.1	
3/11/2020						<0.1
3/12/2020	<0.1	<0.1	<0.1		<0.1	
3/16/2020				<0.1		
9/16/2020	<0.1	<0.1				
9/17/2020			<0.1	<0.1	<0.1	
3/17/2021	<0.1	<0.1	<0.1			
3/18/2021				<0.1	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						0.053 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.001	<0.001	<0.001			
10/23/2007	<0.001					
10/24/2007		<0.001	<0.001			
11/18/2007	<0.001	<0.001	<0.001			
1/30/2008	<0.001					
1/31/2008		<0.001	<0.001			
3/10/2008	<0.001		<0.001			
3/11/2008		<0.001				
5/6/2008		<0.001				
5/13/2008	<0.001		<0.001			
12/4/2008		<0.001	<0.001			
12/5/2008	<0.001					
12/12/2008					<0.001	<0.001
4/15/2009	<0.001					
4/21/2009		<0.001	<0.001			
4/23/2009					<0.001	<0.001
10/6/2009					<0.001	<0.001
10/7/2009	<0.001	<0.001				
10/8/2009			<0.001			
4/21/2010			<0.001			
4/26/2010		<0.001				
4/27/2010					<0.001	
5/3/2010	<0.001					<0.001
9/28/2010			<0.001			
9/30/2010					<0.001	
10/4/2010		<0.001				
10/11/2010						<0.001
10/12/2010	<0.001					
4/12/2011			<0.001			
4/13/2011		<0.001				
4/14/2011					<0.001	
4/27/2011	<0.001					<0.001
10/4/2011			<0.001			
10/5/2011		<0.001			<0.001	
10/17/2011	<0.001					
10/19/2011						<0.001
4/3/2012			<0.001			
4/11/2012		<0.001			<0.001	
5/1/2012						0.0012
5/2/2012	<0.001					
10/2/2012					<0.001	<0.001
10/8/2012	<0.001					
10/9/2012		<0.001	<0.001			
4/9/2013					<0.001	
4/10/2013						<0.001
4/11/2013			<0.001			
4/12/2013	<0.001					
4/15/2013		<0.001				
10/15/2013		<0.001			<0.001	
10/16/2013	<0.001		<0.001			<0.001
4/10/2014			<0.001		<0.001	
4/11/2014	<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.001				<0.001
9/30/2014	<0.001	<0.001	<0.001			
10/1/2014					<0.001	<0.001
3/30/2015	0.0028 (J)	<0.001	<0.001		<0.001	<0.001
10/11/2015					<0.001	<0.001
10/13/2015	<0.001	<0.001	<0.001			
3/22/2016	<0.001					
3/23/2016		<0.001	<0.001			
3/28/2016					<0.001	<0.001
5/19/2016	<0.001		<0.001			
5/20/2016		<0.001				
5/23/2016					<0.001	
5/25/2016						<0.001
7/29/2016	0.0002 (J)	0.0001 (J)	<0.001			
8/1/2016					<0.001	<0.001
9/22/2016			<0.001			
9/23/2016	<0.001	<0.001				
9/26/2016					0.0001 (J)	<0.001
11/9/2016	0.0004 (J)	<0.001				
11/10/2016			<0.001		<0.001	
11/11/2016						<0.001
1/30/2017	<0.001				<0.001	<0.001
1/31/2017		<0.001	<0.001			
2/22/2017				0.0002 (J)		
3/30/2017	8E-05 (J)	<0.001				
4/3/2017			<0.001			<0.001
4/7/2017				<0.001	<0.001	
6/9/2017	0.0001 (J)		<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	0.0002 (J)	<0.001	<0.001		0.0003 (J)	<0.001
10/3/2017				<0.001		
3/16/2018	<0.001		<0.001		<0.001	<0.001
3/19/2018		<0.001				
3/21/2018				<0.001		
9/14/2018		<0.001	<0.001			
9/17/2018	<0.001 (D)				<0.001	
9/18/2018				<0.001		<0.001
3/19/2019			<0.001		<0.001	<0.001
3/20/2019	<0.001	<0.001				
3/21/2019				<0.001		
9/12/2019	<0.001	0.002536 (D)		6.5E-05 (J)		<0.001
9/13/2019			<0.001		<0.001	
3/11/2020	<0.001	<0.001	5.8E-05 (J)		<0.001	<0.001
3/12/2020				<0.001		
9/15/2020	9.3E-05 (J)	<0.001	5E-05 (J)			<0.001
9/16/2020					9.3E-05 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				<0.001		
3/16/2021	5.2E-05 (J)		7E-05 (J)	<0.001		
3/17/2021		<0.001			<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/18/2007			<0.001	<0.001		
11/19/2007					<0.001	<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		
1/31/2008						<0.001
3/5/2008			<0.001		<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					<0.001
5/13/2008					<0.001	
12/13/2008	<0.001				<0.001	<0.001
12/14/2008		<0.001	<0.001	<0.001		
4/16/2009					<0.001	
4/28/2009						<0.001
4/29/2009	<0.001	<0.001	<0.001	<0.001		
10/20/2009	<0.001					
10/21/2009		<0.001			<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	
4/28/2010						<0.001
9/28/2010		<0.001	<0.001			
9/29/2010	<0.001			<0.001		
10/5/2010					<0.001	<0.001
4/12/2011		<0.001	<0.001			
4/13/2011	<0.001			<0.001		
4/19/2011					<0.001	<0.001
10/4/2011		<0.001	<0.001	<0.001		
10/5/2011	<0.001					
10/12/2011					<0.001	
10/18/2011						<0.001
4/3/2012		<0.001	<0.001			
4/4/2012	<0.001			<0.001		
4/24/2012					<0.001	
4/25/2012						<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	<0.001
4/3/2013	<0.001	<0.001	<0.001	<0.001		
10/8/2013						<0.001
10/9/2013			<0.001	<0.001	<0.001	
10/15/2013	<0.001	<0.001				
4/1/2014					<0.001	<0.001
4/2/2014			<0.001	<0.001		
4/9/2014	<0.001	<0.001				
10/1/2014						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.001	<0.001	<0.001	<0.001	<0.001	
4/1/2015			<0.001	<0.001	<0.001	<0.001
4/2/2015	<0.001	<0.001				
10/10/2015	<0.001					
10/11/2015			<0.001	<0.001		
10/12/2015		<0.001				
10/14/2015					<0.001	
10/15/2015						<0.001
3/31/2016	<0.001	<0.001				
4/4/2016			<0.001	<0.001	<0.001	<0.001
5/26/2016	<0.001	<0.001	<0.001	<0.001		
5/27/2016					<0.001	
5/31/2016						<0.001
8/3/2016		<0.001	<0.001		<0.001	
8/4/2016				<0.001		0.0001 (J)
8/5/2016	<0.001					
9/28/2016	<0.001	<0.001	<0.001	<0.001		
9/29/2016						0.0001 (J)
9/30/2016					<0.001	
11/22/2016	<0.001	<0.001	<0.001	<0.001	<0.001	
11/28/2016						<0.001
2/7/2017	<0.001	<0.001				
2/8/2017			<0.001	<0.001		
2/9/2017						0.0001 (J)
2/13/2017					<0.001	
4/10/2017	<0.001	<0.001	<0.001	<0.001		
4/11/2017					<0.001	
4/12/2017						<0.001
6/14/2017	<0.001	<0.001			<0.001	
6/15/2017			9E-05 (J)	<0.001		
6/16/2017						0.0002 (J)
10/4/2017	<0.001	<0.001	<0.001	<0.001	<0.001	
10/9/2017						0.0001 (J)
3/20/2018	<0.001					
3/21/2018		<0.001	<0.001			<0.001
3/22/2018				<0.001	<0.001	
9/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
9/19/2018						<0.001
3/22/2019	<0.001	<0.001				
3/23/2019			<0.001	<0.001	<0.001	<0.001
9/17/2019	4.7E-05 (J)	0.00017 (J)	4.6E-05 (J)	8.2E-05 (J)	<0.001 (D)	
9/18/2019						0.0002 (J)
3/12/2020	<0.001	<0.001	5.2E-05 (J)	4.6E-05 (J)	<0.001	
3/13/2020						0.00013 (J)
9/17/2020	<0.001	<0.001				
9/21/2020			<0.001	<0.001	<0.001	
9/22/2020						0.00015 (J)
3/18/2021	<0.001	<0.001				0.00024 (J)
3/19/2021			<0.001	0.00018 (J)	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.001					
8/22/2007						<0.001
8/23/2007				<0.001	<0.001	
8/24/2007		<0.001	<0.001			
10/25/2007					<0.001	<0.001
11/1/2007	<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	
11/20/2007						<0.001
1/15/2008		<0.001	<0.001	<0.001		
1/23/2008					<0.001	<0.001
1/31/2008	<0.001					
3/5/2008	<0.001	<0.001				
3/6/2008				<0.001		
3/10/2008			<0.001			
3/11/2008					<0.001	<0.001
5/7/2008	<0.001	<0.001		<0.001		
5/12/2008					<0.001	
5/13/2008			<0.001			
5/14/2008						<0.001
12/2/2008		<0.001	<0.001	<0.001		
12/11/2008					<0.001	<0.001
12/12/2008	<0.001					
4/15/2009					<0.001	
4/16/2009		<0.001				
4/23/2009						<0.001
4/28/2009			<0.001	<0.001		
4/29/2009	<0.001					
10/9/2009					<0.001	<0.001
10/19/2009				<0.001		
10/20/2009		<0.001	<0.001			
10/21/2009	<0.001					
4/20/2010		<0.001				
4/27/2010			<0.001	<0.001		
4/28/2010	<0.001					
5/4/2010					<0.001	<0.001
9/29/2010		<0.001				
10/4/2010				<0.001		
10/5/2010			<0.001			
10/6/2010	<0.001					
10/11/2010						<0.001
10/12/2010					<0.001	
4/12/2011		<0.001				
4/18/2011				<0.001		
4/19/2011			<0.001			
4/20/2011	<0.001					
4/26/2011						<0.001
4/28/2011					<0.001	
10/4/2011		<0.001				
10/12/2011	<0.001		<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.001	<0.001
10/2/2012	<0.001					
10/8/2012						<0.001
10/9/2012					<0.001	
10/10/2012		<0.001	<0.001	<0.001		
4/2/2013	<0.001					
4/10/2013						<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					
4/14/2014						<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					
10/3/2014					<0.001	<0.001
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		<0.001		
10/9/2015						<0.001
10/12/2015					<0.001	
10/14/2015	<0.001					
3/28/2016					<0.001	
3/29/2016						<0.001
4/4/2016	<0.001					
4/5/2016		<0.001	<0.001	<0.001		
5/24/2016						<0.001
5/25/2016					<0.001	
5/31/2016			<0.001	<0.001		
6/1/2016	<0.001	<0.001				
8/1/2016					<0.001	<0.001
8/4/2016				<0.001		
8/9/2016		<0.001				
9/26/2016						0.0003 (J)
9/27/2016					<0.001	
9/29/2016				0.0008 (J)		
11/11/2016					<0.001	
11/18/2016						<0.001
11/23/2016			<0.001	0.0011 (J)		
11/28/2016		<0.001				
1/31/2017					<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.001
2/9/2017		0.0002 (J)				
2/10/2017			<0.001	<0.001		
2/22/2017	0.0003 (J)					
4/3/2017					<0.001	
4/6/2017						7E-05 (J)
4/11/2017	<0.001	<0.001	<0.001			
4/12/2017				<0.001		
6/12/2017					<0.001	
6/13/2017						<0.001
6/14/2017		<0.001				
6/15/2017			<0.001	0.0005 (J)		
6/16/2017	<0.001					
7/12/2017	<0.001	<0.001	<0.001			
7/26/2017			<0.001			
7/28/2017	<0.001					
8/10/2017	<0.001					
10/3/2017					<0.001	<0.001
10/5/2017		<0.001				
10/6/2017	<0.001		<0.001	0.0004 (J)		
3/19/2018					<0.001	<0.001
3/22/2018		<0.001				
3/23/2018	<0.001		<0.001	0.00028 (J)		
9/17/2018					<0.001	<0.001
9/19/2018		<0.001	<0.001	0.00029 (J)		
9/20/2018	<0.001					
3/20/2019					<0.001	
3/21/2019						<0.001
3/22/2019	<0.001	<0.001	<0.001			
3/25/2019				0.00047 (J)		
9/16/2019					<0.001	0.0001 (J)
9/17/2019		<0.001	<0.001	0.00016 (J)		
9/18/2019	4.8E-05 (X)					
3/12/2020						0.0001 (J)
3/13/2020		<0.001	4.8E-05 (J)	0.00037 (J)		
3/16/2020					5.1E-05 (J)	
3/17/2020	<0.001					
9/16/2020					<0.001	0.00012 (J)
9/21/2020		0.00023 (J)	7.5E-05 (J)	0.00093 (J)		
9/22/2020	7.1E-05 (J)					
3/17/2021					<0.001	7.4E-05 (J)
3/18/2021		<0.001	4E-05 (J)	0.00036 (J)		
3/19/2021	7.4E-05 (J)					

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.001	<0.001
11/1/2007					<0.001	
11/2/2007						<0.001
11/18/2007						<0.001
11/19/2007					<0.001	
1/15/2008					<0.001	
1/31/2008						<0.001
3/6/2008					<0.001	
3/11/2008						<0.001
5/13/2008					<0.001	
5/14/2008						<0.001
12/5/2008						<0.001
12/12/2008					<0.001	
4/15/2009						<0.001
4/16/2009					<0.001	
10/8/2009						<0.001
10/13/2009					<0.001	
4/21/2010					<0.001	
4/28/2010						<0.001
9/29/2010					<0.001	
10/6/2010						<0.001
4/13/2011					<0.001	
4/21/2011						<0.001
10/5/2011					<0.001	
10/13/2011						<0.001
10/18/2011			<0.001			
4/4/2012					0.0012	
4/30/2012			<0.001			
5/1/2012						<0.001
10/3/2012			<0.001			
10/8/2012					<0.001	
10/9/2012						<0.001
4/8/2013			<0.001		<0.001	
4/11/2013						<0.001
10/9/2013			<0.001		<0.001	
10/16/2013						<0.001
4/9/2014					<0.001	
4/10/2014			<0.001			
4/23/2014						<0.001
9/30/2014					<0.001	
10/2/2014			<0.001			
10/4/2014						<0.001
3/31/2015						<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					
10/10/2015				<0.001 (D)		
10/12/2015						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.001		
3/23/2016						<0.001
3/29/2016	<0.001					
3/30/2016			<0.001		<0.001	
5/23/2016						<0.001
5/24/2016	<0.001		<0.001			
5/25/2016				<0.001		
5/26/2016					<0.001	
5/31/2016		<0.001				
7/29/2016						<0.001
8/1/2016	<0.001					
8/2/2016		0.0001 (J)	<0.001	0.0002 (J)		
8/5/2016					0.0001 (J)	
9/22/2016						<0.001
9/26/2016	<0.001			0.0001 (J)		
9/27/2016		0.0001 (J)	<0.001			
9/28/2016					0.0002 (J)	
11/10/2016						<0.001
11/14/2016	<0.001					
11/21/2016		0.0001 (J)		0.0001 (J)	0.0002 (J)	
11/22/2016			<0.001			
1/31/2017						<0.001
2/1/2017	<0.001	0.0001 (J)				
2/3/2017				0.0002 (J)		
2/6/2017			<0.001		0.0001 (J)	
3/30/2017						<0.001
4/6/2017	7E-05 (J)	0.0002 (J)	0.0001 (J)		0.0001 (J)	
4/7/2017				0.0002 (J)		
6/12/2017						<0.001
6/13/2017	8E-05 (J)	<0.001		0.0002 (J)	8E-05 (J)	
6/14/2017			<0.001			
7/14/2017		<0.001				
10/3/2017	<0.001	9E-05 (J)		0.0002 (J)	<0.001	
10/4/2017			<0.001			<0.001
3/19/2018						<0.001
3/20/2018	<0.001	<0.001		0.00042 (J)	<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)	
3/20/2019						<0.001
3/21/2019	<0.001	<0.001			<0.001	
3/27/2019			<0.001			
5/6/2019				0.00032 (J)		
9/13/2019		<0.001				<0.001
9/16/2019	<0.001		<0.001 (D)	5.4E-05 (J)	6.1E-05 (J)	
3/11/2020						<0.001
3/12/2020	7E-05 (J)	8.2E-05 (J)	5.6E-05 (J)		0.00016 (J)	
3/16/2020				0.00016 (J)		
9/16/2020	<0.001	0.00011 (J)				
9/17/2020			8E-05 (J)	6.5E-05 (J)	7.9E-05 (J)	
3/17/2021	<0.001	4.9E-05 (J)	<0.001			
3/18/2021				0.00011 (J)	0.0001 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.001

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.0002	<0.0002	<0.0002			
10/23/2007	<0.0002					
10/24/2007		<0.0002	<0.0002			
11/18/2007	<0.0002	<0.0002	<0.0002			
1/30/2008	<0.0002					
1/31/2008		<0.0002	<0.0002			
3/10/2008	<0.0002		<0.0002			
3/11/2008		<0.0002				
5/6/2008		0.000175				
5/13/2008	<0.0002		<0.0002			
12/4/2008		<0.0002	<0.0002			
12/5/2008	<0.0002					
12/12/2008					<0.0002	<0.0002
4/15/2009	<0.0002					
4/21/2009		<0.0002	<0.0002			
4/23/2009					<0.0002	<0.0002
10/6/2009					<0.0002	<0.0002
10/7/2009	<0.0002	<0.0002				
10/8/2009			<0.0002			
4/21/2010			<0.0002			
4/26/2010		<0.0002				
4/27/2010					<0.0002	
5/3/2010	<0.0002					<0.0002
9/28/2010			<0.0002			
9/30/2010					<0.0002	
10/4/2010		<0.0002				
10/11/2010						<0.0002
10/12/2010	<0.0002					
4/12/2011			<0.0002			
4/13/2011		<0.0002				
4/14/2011					<0.0002	
4/27/2011	<0.0002					<0.0002
10/4/2011			<0.0002			
10/5/2011		<0.0002			<0.0002	
10/17/2011	<0.0002					
10/19/2011						<0.0002
4/3/2012			<0.0002			
4/11/2012		<0.0002			<0.0002	
5/1/2012						<0.0002
5/2/2012	<0.0002					
10/2/2012					<0.0002	<0.0002
10/8/2012	<0.0002					
10/9/2012		<0.0002	<0.0002			
4/9/2013					<0.0002	
4/10/2013						<0.0002
4/11/2013			<0.0002			
4/12/2013	<0.0002					
4/15/2013		<0.0002				
10/15/2013		<0.0002			<0.0002	
10/16/2013	<0.0002		<0.0002			<0.0002
4/10/2014			<0.0002		<0.0002	
4/11/2014	<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.0002				<0.0002
9/30/2014	<0.0002	<0.0002	<0.0002			
10/1/2014					<0.0002	<0.0002
3/30/2015	<0.0002	<0.0002	<0.0002		2.02E-05 (J)	<0.0002
10/11/2015					<0.0002	<0.0002
10/13/2015	<0.0002	<0.0002	<0.0002			
3/22/2016	<0.0002					
3/23/2016		<0.0002	<0.0002			
3/28/2016					<0.0002	<0.0002
5/19/2016	<0.0002		<0.0002			
5/20/2016		<0.0002				
5/23/2016					<0.0002	
5/25/2016						<0.0002
7/29/2016	<0.0002	<0.0002	<0.0002			
8/1/2016					<0.0002	<0.0002
9/22/2016			<0.0002			
9/23/2016	<0.0002	<0.0002				
9/26/2016					<0.0002	<0.0002
11/9/2016	<0.0002	<0.0002				
11/10/2016			<0.0002		<0.0002	
11/11/2016						<0.0002
1/30/2017	<0.0002				<0.0002	<0.0002
1/31/2017		<0.0002	<0.0002			
2/22/2017				<0.0002		
3/30/2017	<0.0002	<0.0002				
4/3/2017			<0.0002			<0.0002
4/7/2017				<0.0002	<0.0002	
6/9/2017	<0.0002		<0.0002			
6/12/2017		<0.0002			<0.0002	<0.0002
6/14/2017				<0.0002		
7/12/2017				<0.0002		
7/20/2017				<0.0002		
7/28/2017				<0.0002		
8/9/2017				<0.0002		
8/24/2017				<0.0002		
10/2/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
10/3/2017				<0.0002		
3/16/2018	<0.0002		<0.0002		<0.0002	<0.0002
3/19/2018		<0.0002				
3/21/2018				<0.0002		
9/14/2018		<0.0002	<0.0002			
9/17/2018	<0.0002 (D)				<0.0002	
9/18/2018				<0.0002		<0.0002
3/19/2019			<0.0002		<0.0002	<0.0002
3/20/2019	<0.0002	<0.0002				
3/21/2019				<0.0002		
9/12/2019	<0.0002	<0.0002 (D)		<0.0002		<0.0002
9/13/2019			<0.0002		<0.0002	
3/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/12/2020				<0.0002		
9/15/2020	<0.0002	<0.0002	<0.0002			<0.0002
9/16/2020					<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				<0.0002		
3/16/2021	<0.0002		<0.0002	<0.0002		
3/17/2021		<0.0002			<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/1/2007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/18/2007			<0.0002	<0.0002		
11/19/2007					<0.0002	<0.0002
11/20/2007	<0.0002	<0.0002				
1/16/2008					<0.0002	
1/30/2008	<0.0002	<0.0002	<0.0002	<0.0002		
1/31/2008						<0.0002
3/5/2008			<0.0002		<0.0002	<0.0002
3/6/2008	<0.0002	<0.0002		<0.0002		
5/7/2008			0.000181	<0.0002		
5/8/2008		<0.0002				
5/12/2008	<0.0002					<0.0002
5/13/2008					<0.0002	
12/13/2008	<0.0002				<0.0002	<0.0002
12/14/2008		<0.0002	<0.0002	<0.0002		
4/16/2009					<0.0002	
4/28/2009						<0.0002
4/29/2009	<0.0002	<0.0002	<0.0002	<0.0002		
10/20/2009	<0.0002					
10/21/2009		<0.0002			<0.0002	<0.0002
10/22/2009			<0.0002	<0.0002		
4/21/2010		<0.0002	<0.0002	<0.0002		
4/26/2010	<0.0002					
4/27/2010					<0.0002	
4/28/2010						<0.0002
9/28/2010		<0.0002	<0.0002			
9/29/2010	<0.0002			<0.0002		
10/5/2010					<0.0002	<0.0002
4/12/2011		<0.0002	<0.0002			
4/13/2011	<0.0002			<0.0002		
4/19/2011					<0.0002	<0.0002
10/4/2011		<0.0002	<0.0002	<0.0002		
10/5/2011	<0.0002					
10/12/2011					<0.0002	
10/18/2011						<0.0002
4/3/2012		<0.0002	<0.0002			
4/4/2012	<0.0002			<0.0002		
4/24/2012					<0.0002	
4/25/2012						<0.0002
10/2/2012					<0.0002	<0.0002
10/3/2012	<0.0002		<0.0002	<0.0002		
10/8/2012		<0.0002				
4/2/2013					<0.0002	<0.0002
4/3/2013	<0.0002	<0.0002	<0.0002	<0.0002		
10/8/2013						<0.0002
10/9/2013			<0.0002	<0.0002	<0.0002	
10/15/2013	<0.0002	<0.0002				
4/1/2014					0.0002 (J)	0.0002 (J)
4/2/2014			0.0002 (J)	<0.0002		
4/9/2014	<0.0002	<0.0002				
10/1/2014						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
4/1/2015			<0.0002	<0.0002	<0.0002	<0.0002
4/2/2015	<0.0002	<0.0002				
10/10/2015	<0.0002					
10/11/2015			<0.0002	<0.0002		
10/12/2015		<0.0002				
10/14/2015					<0.0002	
10/15/2015						<0.0002
3/31/2016	<0.0002	<0.0002				
4/4/2016			<0.0002	<0.0002	<0.0002	<0.0002
5/26/2016	<0.0002	<0.0002	<0.0002	<0.0002		
5/27/2016					<0.0002	
5/31/2016						<0.0002
8/3/2016		<0.0002	<0.0002		<0.0002	
8/4/2016				<0.0002		<0.0002
8/5/2016	<0.0002					
9/28/2016	<0.0002	<0.0002	<0.0002	<0.0002		
9/29/2016						<0.0002
9/30/2016					<0.0002	
11/22/2016	<0.0002	<0.0002	<0.0002	<0.0002	8E-05 (J)	
11/28/2016						<0.0002
2/7/2017	<0.0002	<0.0002				
2/8/2017			<0.0002	<0.0002		
2/9/2017						<0.0002
2/13/2017					<0.0002	
4/10/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/11/2017					<0.0002	
4/12/2017						<0.0002
6/14/2017	<0.0002	<0.0002			<0.0002	
6/15/2017			<0.0002	<0.0002		
6/16/2017						<0.0002
10/4/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/9/2017						<0.0002
3/20/2018	<0.0002					
3/21/2018		<0.0002	<0.0002			<0.0002
3/22/2018				<0.0002	<0.0002	
9/18/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/19/2018						<0.0002
3/22/2019	<0.0002	<0.0002				
3/23/2019			<0.0002	<0.0002	<0.0002	<0.0002
9/17/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 (D)	
9/18/2019						<0.0002
3/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/13/2020						<0.0002
9/17/2020	<0.0002	<0.0002				
9/21/2020			<0.0002	<0.0002	<0.0002	
9/22/2020						<0.0002
3/18/2021	<0.0002	<0.0002				<0.0002
3/19/2021			<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.0002					
8/22/2007						<0.0002
8/23/2007				<0.0002	<0.0002	
8/24/2007		<0.0002	<0.0002			
10/25/2007					<0.0002	<0.0002
11/1/2007	<0.0002					
11/2/2007		<0.0002	<0.0002	<0.0002		
11/17/2007		<0.0002		<0.0002		
11/18/2007			<0.0002			
11/19/2007	<0.0002				<0.0002	
11/20/2007						<0.0002
1/15/2008		<0.0002	<0.0002	<0.0002		
1/23/2008					<0.0002	<0.0002
1/31/2008	<0.0002					
3/5/2008	<0.0002	<0.0002				
3/6/2008				<0.0002		
3/10/2008			<0.0002			
3/11/2008					<0.0002	<0.0002
5/7/2008	<0.0002	<0.0002		<0.0002		
5/12/2008					<0.0002	
5/13/2008			<0.0002			
5/14/2008						<0.0002
12/2/2008		<0.0002	<0.0002	<0.0002		
12/11/2008					<0.0002	<0.0002
12/12/2008	<0.0002					
4/15/2009					<0.0002	
4/16/2009		<0.0002				
4/23/2009						<0.0002
4/28/2009			<0.0002	<0.0002		
4/29/2009	<0.0002					
10/9/2009					<0.0002	<0.0002
10/19/2009				<0.0002		
10/20/2009		<0.0002	<0.0002			
10/21/2009	<0.0002					
4/20/2010		<0.0002				
4/27/2010			<0.0002	<0.0002		
4/28/2010	<0.0002					
5/4/2010					<0.0002	<0.0002
9/29/2010		<0.0002				
10/4/2010				<0.0002		
10/5/2010			<0.0002			
10/6/2010	<0.0002					
10/11/2010						<0.0002
10/12/2010					<0.0002	
4/12/2011		<0.0002				
4/18/2011				<0.0002		
4/19/2011			<0.0002			
4/20/2011	<0.0002					
4/26/2011						<0.0002
4/28/2011					<0.0002	
10/4/2011		<0.0002				
10/12/2011	<0.0002		<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						<0.0002
10/19/2011					<0.0002	
4/4/2012		<0.0002				
4/23/2012				<0.0002		
4/25/2012	<0.0002		<0.0002			
5/2/2012					<0.0002	<0.0002
10/2/2012	<0.0002					
10/8/2012						<0.0002
10/9/2012					<0.0002	
10/10/2012		<0.0002	<0.0002	<0.0002		
4/2/2013	<0.0002					
4/10/2013						<0.0002
4/11/2013					<0.0002	
4/15/2013		<0.0002		<0.0002		
4/16/2013			<0.0002			
10/8/2013	<0.0002					<0.0002
10/16/2013					<0.0002	
10/22/2013		<0.0002	<0.0002	<0.0002		
4/1/2014	0.0002 (J)					
4/14/2014						<0.0002
4/21/2014		<0.0002	<0.0002	<0.0002		
4/23/2014					<0.0002	
9/30/2014		<0.0002	<0.0002	<0.0002		
10/1/2014	<0.0002					
10/3/2014					3.71E-05 (J)	3.29E-05 (J)
3/31/2015	<0.0002				<0.0002	
4/1/2015						<0.0002
4/3/2015		<0.0002	<0.0002	<0.0002		
10/6/2015			<0.0002			
10/7/2015		<0.0002		<0.0002		
10/9/2015						<0.0002
10/12/2015					<0.0002	
10/14/2015	<0.0002					
3/28/2016					<0.0002	
3/29/2016						<0.0002
4/4/2016	<0.0002					
4/5/2016		<0.0002	<0.0002	<0.0002		
5/24/2016						<0.0002
5/25/2016					<0.0002	
5/31/2016			<0.0002	<0.0002		
6/1/2016	<0.0002	<0.0002				
8/1/2016					<0.0002	<0.0002
8/4/2016				<0.0002		
8/9/2016		<0.0002				
9/26/2016						<0.0002
9/27/2016					<0.0002	
9/29/2016				<0.0002		
11/11/2016					<0.0002	
11/18/2016						<0.0002
11/23/2016			6E-05 (J)	5E-05 (J)		
11/28/2016		<0.0002				
1/31/2017					<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.0002
2/9/2017		<0.0002				
2/10/2017			<0.0002	<0.0002		
2/22/2017	<0.0002					
4/3/2017					<0.0002	
4/6/2017						<0.0002
4/11/2017	<0.0002	<0.0002	<0.0002			
4/12/2017				<0.0002		
6/12/2017					<0.0002	
6/13/2017						<0.0002
6/14/2017		<0.0002				
6/15/2017			<0.0002	<0.0002		
6/16/2017	<0.0002					
7/12/2017	<0.0002	<0.0002	<0.0002			
7/26/2017			<0.0002			
7/28/2017	<0.0002					
8/10/2017	<0.0002					
10/3/2017					<0.0002	<0.0002
10/5/2017		<0.0002				
10/6/2017	<0.0002		<0.0002	<0.0002		
3/19/2018					<0.0002	<0.0002
3/22/2018		<0.0002				
3/23/2018	<0.0002		<0.0002	<0.0002		
9/17/2018					<0.0002	<0.0002
9/19/2018		<0.0002	<0.0002	<0.0002		
9/20/2018	<0.0002					
3/20/2019					<0.0002	
3/21/2019						<0.0002
3/22/2019	<0.0002	<0.0002	<0.0002			
3/25/2019				<0.0002		
9/16/2019					<0.0002	<0.0002
9/17/2019		<0.0002	<0.0002	<0.0002		
9/18/2019	<0.0002					
3/12/2020						<0.0002
3/13/2020		<0.0002	<0.0002	<0.0002		
3/16/2020					<0.0002	
3/17/2020	<0.0002					
9/16/2020					<0.0002	<0.0002
9/21/2020		<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002					
3/17/2021					<0.0002	<0.0002
3/18/2021		<0.0002	<0.0002	<0.0002		
3/19/2021	<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.0002	<0.0002
11/1/2007					<0.0002	
11/2/2007						<0.0002
11/18/2007						<0.0002
11/19/2007					<0.0002	
1/15/2008					<0.0002	
1/31/2008						<0.0002
3/6/2008					<0.0002	
3/11/2008						<0.0002
5/13/2008					<0.0002	
5/14/2008						<0.0002
12/5/2008						<0.0002
12/12/2008					<0.0002	
4/15/2009						<0.0002
4/16/2009					<0.0002	
10/8/2009						<0.0002
10/13/2009					<0.0002	
4/21/2010					<0.0002	
4/28/2010						<0.0002
9/29/2010					<0.0002	
10/6/2010						<0.0002
4/13/2011					<0.0002	
4/21/2011						<0.0002
10/5/2011					<0.0002	
10/13/2011						<0.0002
10/18/2011			<0.0002			
4/4/2012					<0.0002	
4/30/2012			<0.0002			
5/1/2012						<0.0002
10/3/2012			<0.0002			
10/8/2012					<0.0002	
10/9/2012						<0.0002
4/8/2013			<0.0002		<0.0002	
4/11/2013						<0.0002
10/9/2013			<0.0002		<0.0002	
10/16/2013						<0.0002
4/9/2014					<0.0002	
4/10/2014			<0.0002			
4/23/2014						<0.0002
9/30/2014					<0.0002	
10/2/2014			3.83E-05 (J)			
10/4/2014						<0.0002
3/31/2015						<0.0002
4/2/2015					<0.0002	
4/3/2015			<0.0002			
5/26/2015	<0.0002			<0.0002		
6/18/2015	<0.0002 (D)			<0.0002 (D)		
7/2/2015	<0.0002			<0.0002		
8/13/2015	<0.0002 (D)					
8/14/2015				<0.0002 (D)		
10/8/2015			<0.0002	<0.0002		
10/9/2015	<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
10/10/2015					<0.0002 (D)	
10/12/2015						<0.0002
3/22/2016				<0.0002		
3/23/2016						<0.0002
3/29/2016	<0.0002					
3/30/2016			<0.0002		<0.0002	
5/23/2016						<0.0002
5/24/2016	<0.0002		<0.0002			
5/25/2016				<0.0002		
5/26/2016					<0.0002	
5/31/2016		<0.0002				
7/29/2016						<0.0002
8/1/2016	<0.0002					
8/2/2016		<0.0002	<0.0002	<0.0002		
8/5/2016					<0.0002	
9/22/2016						<0.0002
9/26/2016	<0.0002			<0.0002		
9/27/2016		<0.0002	<0.0002			
9/28/2016					<0.0002	
11/10/2016						<0.0002
11/14/2016	<0.0002					
11/21/2016		<0.0002		<0.0002	<0.0002	
11/22/2016			8E-05 (J)			
1/31/2017						<0.0002
2/1/2017	<0.0002	<0.0002				
2/3/2017				<0.0002		
2/6/2017			<0.0002		<0.0002	
3/30/2017						<0.0002
4/6/2017	<0.0002	<0.0002	<0.0002		<0.0002	
4/7/2017				<0.0002		
6/12/2017						<0.0002
6/13/2017	<0.0002	<0.0002		<0.0002	<0.0002	
6/14/2017			<0.0002			
7/14/2017		<0.0002				
10/3/2017	<0.0002	<0.0002		<0.0002	<0.0002	
10/4/2017			<0.0002			<0.0002
3/19/2018						<0.0002
3/20/2018	<0.0002	<0.0002		<0.0002	<0.0002	
3/21/2018			<0.0002			
9/17/2018	<0.0002					<0.0002
9/18/2018		<0.0002	<0.0002	<0.0002	<0.0002 (D)	
3/20/2019						<0.0002
3/21/2019	<0.0002	<0.0002			<0.0002	
3/27/2019			<0.0002			
5/6/2019				<0.0002		
9/13/2019		<0.0002				<0.0002
9/16/2019	<0.0002		<0.0002 (D)	<0.0002	<0.0002	
3/11/2020						<0.0002
3/12/2020	<0.0002	<0.0002	<0.0002		<0.0002	
3/16/2020				<0.0002		
9/16/2020	<0.0002	<0.0002				
9/17/2020			<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/17/2021	<0.0002	<0.0002	<0.0002			
3/18/2021				<0.0002	<0.0002	
3/29/2021						<0.0002

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.005	<0.005	<0.005			
10/23/2007	0.0096					
10/24/2007		0.026 (o)	0.0025			
11/18/2007	0.023	0.043 (o)	0.0093			
1/30/2008	0.11 (o)					
1/31/2008		0.0075	0.054 (o)			
3/10/2008	0.024		0.0054			
3/11/2008		0.019				
5/6/2008		0.004				
5/13/2008	0.006		0.0043			
12/4/2008		0.02	<0.005			
12/5/2008	<0.005					
12/12/2008					0.0035	0.0096
4/15/2009	<0.005					
4/21/2009		<0.005	<0.005			
4/23/2009					0.0032	0.015
10/6/2009					<0.005	0.008
10/7/2009	0.0096	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010				<0.005		
5/3/2010	<0.005					0.0053
9/28/2010			<0.005			
9/30/2010				<0.005		
10/4/2010		0.0025				
10/11/2010						0.0061
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011				0.0028		
4/27/2011	<0.005					0.0087
10/4/2011			<0.005			
10/5/2011		<0.005		0.0028		
10/17/2011	<0.005					
10/19/2011						0.0039
4/3/2012			<0.005			
4/11/2012		<0.005		<0.005		
5/1/2012						0.0054
5/2/2012	<0.005					
10/2/2012				0.0026		0.0044
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013				<0.005		
4/10/2013						0.0053
4/11/2013			<0.005			
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		0.0028		<0.005		
10/16/2013	<0.005		<0.005			0.0047
4/10/2014			<0.005	0.0025 (J)		
4/11/2014	<0.005					

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				0.0045
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					<0.005	0.0018 (J)
3/30/2015	0.004	0.0018 (J)	<0.005		0.0015 (J)	0.0037
10/11/2015					0.0013 (J)	0.0018 (J)
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	0.0028 (J)
7/29/2016	<0.005	<0.005	<0.005			
8/1/2016					<0.005	<0.005
3/30/2017	0.0004 (J)	0.0006 (J)				
4/3/2017			<0.005			0.0022 (J)
4/7/2017				<0.005	0.0011 (J)	
10/2/2017	<0.005	<0.005	<0.005		0.0013 (J)	0.0021 (J)
10/3/2017				<0.005		
3/16/2018	<0.005		<0.005		<0.005	0.0014 (J)
3/19/2018		<0.005				
3/21/2018				<0.005		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				0.00096 (J)	
9/18/2018				<0.005		0.0012 (J)
3/19/2019			<0.005		<0.005	0.0016 (J)
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	0.00038 (J)	0.00518 (D)		0.00032 (J)		0.0015 (J)
9/13/2019			<0.005		0.00063 (J)	
3/11/2020	0.00068 (J)	0.0014 (J)	0.002 (J)		0.00084 (J)	0.001 (J)
3/12/2020				0.00034 (J)		
9/15/2020	<0.005	<0.005	0.0013 (J)			0.0012 (J)
9/16/2020					<0.005	
9/17/2020				<0.005		
3/16/2021	<0.005		<0.005	<0.005		
3/17/2021		<0.005			<0.005	0.0012 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.0076
11/1/2007	0.0042	0.006	<0.005	<0.005	<0.005	0.0043
11/18/2007			<0.005	<0.005		
11/19/2007					0.0047	0.0061
11/20/2007	0.026	<0.005				
1/16/2008					0.029	
1/30/2008	0.032	0.029 (O)	<0.005	<0.005		
1/31/2008						0.015
3/5/2008			<0.005		0.023	<0.005
3/6/2008	0.019	<0.005		0.0046		
5/7/2008			0.0087	<0.005		
5/8/2008		0.0057				
5/12/2008	0.0072					0.0035
5/13/2008					0.0032	
12/13/2008	0.024				<0.005	0.0079
12/14/2008		<0.005	<0.005	<0.005		
4/16/2009					<0.005	
4/28/2009						<0.005
4/29/2009	0.0026	<0.005	<0.005	<0.005		
10/20/2009	<0.005					
10/21/2009		<0.005			<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	
4/28/2010						<0.005
9/28/2010		<0.005	<0.005			
9/29/2010	0.0042			<0.005		
10/5/2010					<0.005	<0.005
4/12/2011		<0.005	<0.005			
4/13/2011	<0.005			<0.005		
4/19/2011					0.0025	<0.005
10/4/2011		<0.005	<0.005	<0.005		
10/5/2011	<0.005					
10/12/2011					<0.005	
10/18/2011						0.0031
4/3/2012		<0.005	<0.005			
4/4/2012	<0.005			<0.005		
4/24/2012					<0.005	
4/25/2012						<0.005
10/2/2012					<0.005	<0.005
10/3/2012	0.004		0.0042	<0.005		
10/8/2012		<0.005				
4/2/2013					0.003	<0.005
4/3/2013	0.0028	<0.005	<0.005	<0.005		
10/8/2013						<0.005
10/9/2013			<0.005	<0.005	<0.005	
10/15/2013	0.0036	<0.005				
4/1/2014					0.0025 (J)	<0.005
4/2/2014			0.0025 (J)	<0.005		
4/9/2014	0.0025 (J)	<0.005				
10/1/2014						<0.005

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.005	<0.005	0.0016 (J)	<0.005	<0.005	
4/1/2015			<0.005	0.0041	0.0014 (J)	<0.005
4/2/2015	<0.005	<0.005				
10/10/2015	<0.005					
10/11/2015			<0.005	<0.005		
10/12/2015		<0.005				
10/14/2015					0.0021 (J)	
10/15/2015						<0.005
3/31/2016	<0.005	<0.005				
4/4/2016			<0.005	<0.005	0.00264 (J)	<0.005
8/3/2016		<0.005	<0.005		<0.005	
8/4/2016				<0.005		<0.005
8/5/2016	<0.005					
4/10/2017	<0.005	<0.005	<0.005	<0.005		
4/11/2017					0.0027 (J)	
4/12/2017						<0.005
10/4/2017	<0.005	0.0006 (J)	<0.005	<0.005	0.0022 (J)	
10/9/2017						<0.005
3/20/2018	0.0016 (J)					
3/21/2018		<0.005	<0.005			<0.005
3/22/2018				<0.005	0.0025 (J)	
9/18/2018	<0.005	<0.005	<0.005	<0.005	0.0024 (J)	
9/19/2018						<0.005
3/22/2019	0.0022 (J)	<0.005				
3/23/2019			<0.005	<0.005	0.0026 (J)	<0.005
9/17/2019	<0.005	<0.005	<0.005	<0.005	0.0033 (JD)	
9/18/2019						0.00046 (J)
3/12/2020	0.0015 (J)	0.00043 (J)	<0.005	<0.005	0.0022 (J)	
3/13/2020						<0.005
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005	<0.005	0.0019 (J)	
9/22/2020						<0.005
3/18/2021	0.00094 (J)	0.0011 (J)				<0.005
3/19/2021			<0.005	<0.005	0.0022 (J)	

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						<0.005
8/23/2007				0.0089	0.0069	
8/24/2007		<0.005	<0.005			
10/25/2007					0.038	0.0028
11/1/2007	0.0033					
11/2/2007		0.0029	<0.005	0.0036		
11/17/2007		0.0086		0.014 (O)		
11/18/2007			0.0088 (J)			
11/19/2007	0.0029				0.025	
11/20/2007						0.012
1/15/2008		0.011	0.019	0.0096		
1/23/2008					0.047	0.046 (o)
1/31/2008	0.0039					
3/5/2008	<0.005	0.0072				
3/6/2008				0.0038		
3/10/2008			0.017			
3/11/2008					0.042	0.0091
5/7/2008	<0.005	0.0045		0.0056		
5/12/2008					0.031	
5/13/2008			0.0058			
5/14/2008						0.022
12/2/2008		0.011	0.0043	0.003		
12/11/2008					0.027	0.005
12/12/2008	0.022 (O)					
4/15/2009					0.025	
4/16/2009		0.0061				
4/23/2009						0.0031
4/28/2009			<0.005	<0.005		
4/29/2009	0.0034					
10/9/2009					0.051	0.0053
10/19/2009				<0.005		
10/20/2009		0.01	<0.005			
10/21/2009	<0.005					
4/20/2010		<0.005				
4/27/2010			<0.005	0.004		
4/28/2010	0.0026					
5/4/2010					0.025	<0.005
9/29/2010		<0.005				
10/4/2010				<0.005		
10/5/2010			<0.005			
10/6/2010	<0.005					
10/11/2010						0.0042
10/12/2010					0.024	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			<0.005			
4/20/2011	<0.005					
4/26/2011						0.0051
4/28/2011					0.01	
10/4/2011		<0.005				
10/12/2011	<0.005		<0.005	<0.005		

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						<0.005
10/19/2011					0.03	
4/4/2012		<0.005				
4/23/2012				<0.005		
4/25/2012	<0.005		<0.005			
5/2/2012					0.0429	<0.005
10/2/2012	<0.005					
10/8/2012						<0.005
10/9/2012					0.033	
10/10/2012		<0.005	<0.005	<0.005		
4/2/2013	<0.005					
4/10/2013						<0.005
4/11/2013					0.02	
4/15/2013		<0.005		<0.005		
4/16/2013			<0.005			
10/8/2013	<0.005					0.0025
10/16/2013					0.028	
10/22/2013		<0.005	<0.005	<0.005		
4/1/2014	<0.005					
4/14/2014						0.0025 (J)
4/21/2014		<0.005	<0.005	<0.005		
4/23/2014					0.024	
9/30/2014		<0.005	<0.005	<0.005		
10/1/2014	<0.005					
10/3/2014					0.032	0.0021 (J)
3/31/2015	<0.005				0.012	
4/1/2015						0.0026
4/3/2015		<0.005	<0.005	<0.005		
10/6/2015			<0.005			
10/7/2015		<0.005		<0.005		
10/9/2015						<0.005
10/12/2015					0.012	
10/14/2015	<0.005					
3/28/2016					0.0172	
3/29/2016						<0.005
4/4/2016	<0.005					
4/5/2016		<0.005	<0.005	<0.005		
8/1/2016					0.0113	<0.005
8/4/2016				<0.005		
8/9/2016		0.0021 (J)				
4/3/2017					0.0114	
4/6/2017						0.0005 (J)
4/11/2017	<0.005	<0.005	<0.005			
4/12/2017				<0.005		
10/3/2017					0.0098 (J)	<0.005
10/5/2017		<0.005				
10/6/2017	<0.005		<0.005	0.001 (J)		
3/19/2018					0.0092 (J)	<0.005
3/22/2018		<0.005				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					0.0085 (J)	<0.005
9/19/2018		0.00096 (J)	<0.005	<0.005		

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/20/2018	<0.005					
3/20/2019					0.008 (J)	
3/21/2019						<0.005
3/22/2019	<0.005	<0.005	<0.005			
3/25/2019				0.0011 (J)		
9/16/2019					0.008 (J)	<0.005
9/17/2019		0.0007 (X)	<0.005	0.00057 (J)		
9/18/2019	<0.005					
3/12/2020						<0.005
3/13/2020		0.00078 (J)	<0.005	0.00072 (J)		
3/16/2020					0.015	
3/17/2020	0.00082 (J)					
9/16/2020					0.0075 (J)	<0.005
9/21/2020		<0.005	<0.005	0.0015 (J)		
9/22/2020	<0.005					
3/17/2021					0.0077	<0.005
3/18/2021		<0.005	<0.005	0.00079 (J)		
3/19/2021	<0.005					

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					0.0046	0.028
11/1/2007					0.0057	
11/2/2007						0.041
11/18/2007						0.14 (o)
11/19/2007					0.014 (J)	
1/15/2008					0.057 (o)	
1/31/2008						0.053
3/6/2008					0.046 (o)	
3/11/2008						0.076
5/13/2008					0.0069	
5/14/2008						0.074
12/5/2008						0.032
12/12/2008					0.0061	
4/15/2009						0.028
4/16/2009					0.0067 (J)	
10/8/2009						0.032
10/13/2009					0.0054	
4/21/2010					<0.005	
4/28/2010						0.029
9/29/2010					<0.005	
10/6/2010						0.031
4/13/2011					<0.005	
4/21/2011						0.019
10/5/2011					<0.005	
10/13/2011						0.028
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						0.0253
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						0.023
4/8/2013			<0.005		<0.005	
4/11/2013						0.021
10/9/2013			<0.005		0.0029	
10/16/2013						0.018
4/9/2014					0.0025 (J)	
4/10/2014			<0.005			
4/23/2014						0.015
9/30/2014					<0.005	
10/2/2014			<0.005			
10/4/2014						0.017
3/31/2015						0.045
4/2/2015					0.0016 (J)	
4/3/2015			<0.005			
5/26/2015	<0.005			0.002 (J)		
6/18/2015	<0.005 (D)			0.0025 (D)		
7/2/2015	<0.005			<0.005		
10/8/2015			0.003	<0.005		
10/9/2015	<0.005					
10/10/2015					0.00295 (D)	
10/12/2015						0.019

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.005		
3/23/2016						0.019
3/29/2016	<0.005					
3/30/2016			<0.005		0.00116 (J)	
7/29/2016						0.0161
8/1/2016	<0.005					
8/2/2016		0.0011 (J)	<0.005	<0.005		
8/5/2016					<0.005	
3/30/2017						0.018
4/6/2017	<0.005	0.0011 (J)	0.0003 (J)		0.001 (J)	
4/7/2017				0.0007 (J)		
10/3/2017	<0.005	0.0012 (J)		0.0006 (J)	0.0007 (J)	
10/4/2017			<0.005			0.0158
3/19/2018						0.015
3/20/2018	<0.005	<0.005		<0.005	0.00097 (J)	
3/21/2018			<0.005			
9/17/2018	<0.005					0.014
9/18/2018		<0.005	<0.005	<0.005	<0.005 (D)	
3/20/2019						0.01
3/21/2019	<0.005	0.00099 (J)			0.001 (J)	
3/27/2019			<0.005			
5/6/2019				<0.005		
9/13/2019		0.00061 (J)				0.012
9/16/2019	<0.005		<0.005 (D)	<0.005	0.00062 (J)	
3/11/2020						0.012
3/12/2020	<0.005	0.00078 (J)	<0.005		0.0011 (J)	
3/16/2020				0.0006 (J)		
9/16/2020	<0.005	<0.005				
9/17/2020			<0.005	<0.005	<0.005	
3/17/2021	<0.005	<0.005	<0.005			
3/18/2021				<0.005	0.001 (J)	
3/29/2021						<0.005

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	7.65					
3/23/2016		6.7	7.45			
3/28/2016					6.22	6.45 (D)
5/19/2016	7.6		7.5			
5/20/2016		6.36				
5/23/2016					5.86	
5/25/2016						6.96
7/29/2016	7.58	6.75	7.59			
8/1/2016					6.39	5.64
9/22/2016			7.44			
9/23/2016	7.57	6.62				
9/26/2016					5.74	6.26
11/9/2016	7.45	6.42				
11/10/2016			7.55		5.78	
11/11/2016						5.62
1/30/2017	7.64				5.88	5.49
1/31/2017		5.66	7.56			
2/22/2017				7.38		
3/30/2017	7.51	6.33				
4/3/2017			7.46			6.32
4/7/2017				7.35	5.94	
6/9/2017	7.6		7.24			
6/12/2017		6.6			5.81	6.48
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	6.41
10/3/2017				7.51		
12/28/2017				7.32 (Y)		
3/16/2018	7.58		7.31		5.64	5.46
3/19/2018		6.55				
3/21/2018				7.3		
9/14/2018		5.81	7.55			
9/17/2018	7.53 (D)				5.82	
9/18/2018				7.26		5.35
3/19/2019			7.2		5.93	6.01
3/20/2019	7.64	5.71				
3/21/2019				7.28		
9/12/2019	7.36	5.45 (D)		7.2		5.89
9/13/2019			7.29		5.61	
3/11/2020	7.51	6.56	7.09		5.57	5.4
3/12/2020				7.55		
9/15/2020	7.43	6.38	7.45			5.26
9/16/2020					5.62	
9/17/2020				7.42		
3/16/2021	7.57		7.51	7.4		
3/17/2021		6.58			5.64	6.31

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	7.21	7.54				
4/4/2016			7.16	8.01	6.53 (D)	7.44 (D)
5/26/2016	7.3	7.43	7.23	7.91		
5/27/2016					6.45	
5/31/2016						7.37
8/3/2016		7.41	6.96		6.41	
8/4/2016				7.85		7.32
8/5/2016	7.54					
9/28/2016	7.48	7.26	7.6	8.26		
9/29/2016						7.38
9/30/2016					6.46	
11/22/2016	7.54	7.38	6.71	7.79	6.39	
11/28/2016						7.43
2/7/2017	7.17	7.46				
2/8/2017			6.84	7.77		
2/9/2017						7.36
2/13/2017					6.4	
4/10/2017	6.72	7.51	7.13	7.95		
4/11/2017					6.37	
4/12/2017						7.46
6/14/2017	6.83	7.34			5.85	
6/15/2017			7.1	7.79		
6/16/2017						7.36
10/4/2017	7.38	7.54	6.25	7.74	6.27	
10/9/2017						7.38
3/20/2018	6.23					
3/21/2018		7.33	7.07			7.33
3/22/2018				7.72	6.45	
9/18/2018	7.14	7.66	6.9	7.88	6.42	
9/19/2018						7.31
3/22/2019	6.23	7.34				
3/23/2019			6.27	7.56	6.34	7.27
9/17/2019	7.16	7.51	6.55	7.58	6.19 (D)	
9/18/2019						7.28
3/12/2020	6.43	7.49	6.3	7.6	6.17	
3/13/2020						7.25
9/17/2020	7.28	7.7				
9/21/2020			7.02	7.84	6.28	
9/22/2020						7.34
3/18/2021	6.69	7.52				7.3
3/19/2021			7.05	7.64	6.31	

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					7.04	
3/29/2016						7.54
4/4/2016	8.56					
4/5/2016		10.61	9.23	7.71		
5/24/2016						7.39
5/25/2016					6.39	
5/31/2016			9.52	7.66		
6/1/2016	9.83	10.32				
8/1/2016					6.13	7.26
8/4/2016				7.8		
8/9/2016		8.23				
9/26/2016						7.19
9/27/2016					5.98	
9/29/2016				7.46		
11/11/2016					6.11	
11/18/2016						7.04
11/23/2016			7.88	7.62		
11/28/2016		7.29				
1/31/2017					6.08	
2/1/2017						7.34
2/9/2017		6.91				
2/10/2017			7.72	7.51		
2/22/2017	7.45					
4/3/2017					6.13	
4/6/2017						7.49
4/11/2017	6.37	6.68	7.83			
4/12/2017				7.54		
6/12/2017					6.83	
6/13/2017						7.38
6/14/2017		6.84				
6/15/2017			7.86	7.71		
6/16/2017	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	7.39
10/5/2017		6.93				
10/6/2017	6.55		7.74	7.58		
12/28/2017	7.43 (Y)					
3/19/2018					6.06	7.32
3/22/2018		6.93				
3/23/2018	7.58		7.89	7.34		
9/17/2018					6.14	7.57
9/19/2018		6.88	7.77	7.66		
9/20/2018	7.43					
3/20/2019					6.29	
3/21/2019						7.21
3/22/2019	7.49	6.27	7.55			
3/25/2019				7.64		

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/16/2019					6.09	7.35
9/17/2019		6.04	7.76	7.35		
9/18/2019	7.5					
3/12/2020						7.4
3/13/2020		6.16	7.68	7.56		
3/16/2020					6.88	
3/17/2020	7.62					
9/16/2020					6	7.33
9/21/2020		6.06	7.65	7.48		
9/22/2020	6.95					
3/17/2021					5.85	7.57
3/18/2021		6.04	7.87	7.58		
3/19/2021	7.42					

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				7.53 (D)		
3/23/2016						5.96
3/29/2016	7.24					
3/30/2016			8.2		6.07	
5/23/2016						5.73
5/24/2016	7.1		8.07			
5/25/2016				8.04		
5/26/2016					6.44	
5/31/2016		7.98				
7/29/2016						5.51
8/1/2016	7.07					
8/2/2016		7.64	8.07	7.74		
8/5/2016					6.67	
9/22/2016						5.45
9/26/2016	7.15			7.4		
9/27/2016		7.18	8.06			
9/28/2016					6.89	
11/10/2016						5.51
11/14/2016	7.15					
11/21/2016		7.49		7.4	6.89	
11/22/2016			8.07			
1/31/2017						5.42
2/1/2017	7.09	7.2				
2/3/2017				7.05		
2/6/2017			7.88		4.93	
3/30/2017						5.43
4/6/2017	7.23	7.42	7.86		4.92	
4/7/2017				7.14		
6/12/2017						5.47
6/13/2017	6.99	7.25		7.52	5.03	
6/14/2017			7.66			
7/14/2017		7.5				
10/3/2017	7.09	7.5		7.38	6.01	
10/4/2017			7.84			5.23
1/9/2018			7.86 (Y)			
3/19/2018						5.4
3/20/2018	6.9	6.76		7.27	4.88	
3/21/2018			7.9			
9/17/2018	6.96					5.22
9/18/2018		7.26	7.92	6.95	5.36 (D)	
3/20/2019						5.22
3/21/2019	6.82	7.3			5.33	
3/27/2019			8.07			
5/6/2019				7.98		
9/13/2019		6.8				5.07
9/16/2019	6.83		7.9 (D)	7.15	6.03	
3/11/2020						5.31
3/12/2020	6.88	7.53	8.02		4.82	
3/16/2020				7.01		
9/16/2020	6.99	7.56				
9/17/2020			7.96	7.05	6.39	
3/17/2021	7.03	7.52	8.08			

Time Series

Constituent: pH (pH units) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/18/2021				6.45	4.78	
3/29/2021						8.04

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.005	<0.005	<0.005			
10/23/2007	<0.005					
10/24/2007		<0.005	<0.005			
11/18/2007	<0.005	<0.005	<0.005			
1/30/2008	<0.005					
1/31/2008		<0.005	<0.005			
3/10/2008	<0.005		<0.005			
3/11/2008		<0.005				
5/6/2008		<0.005				
5/13/2008	<0.005		<0.005			
12/4/2008		<0.005	<0.005			
12/5/2008	<0.005					
12/12/2008					<0.005	<0.005
4/15/2009	<0.005					
4/21/2009		<0.005	<0.005			
4/23/2009					<0.005	<0.005
10/6/2009					<0.005	<0.005
10/7/2009	<0.005	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010					<0.005	
5/3/2010	<0.005					<0.005
9/28/2010			<0.005			
9/30/2010					<0.005	
10/4/2010		<0.005				
10/11/2010						<0.005
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011					<0.005	
4/27/2011	<0.005					<0.005
10/4/2011			<0.005			
10/5/2011		<0.005			<0.005	
10/17/2011	<0.005					
10/19/2011						<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	<0.005
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013					<0.005	
4/10/2013						<0.005
4/11/2013			<0.005			
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005			<0.005	
10/16/2013	<0.005		<0.005			<0.005
4/10/2014			<0.005		<0.005	
4/11/2014	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				<0.005
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					<0.005	<0.005
3/30/2015	<0.005	<0.005	<0.005		<0.005	<0.005
10/11/2015					<0.005	<0.005
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	<0.005
5/19/2016	<0.005		<0.005			
5/20/2016		0.00216 (J)				
5/23/2016					<0.005	
5/25/2016						<0.005
7/29/2016	<0.005	0.001 (J)	<0.005			
8/1/2016					<0.005	<0.005
9/22/2016			<0.005			
9/23/2016	<0.005	<0.005				
9/26/2016					<0.005	<0.005
11/9/2016	<0.005	<0.005				
11/10/2016			<0.005		<0.005	
11/11/2016						<0.005
1/30/2017	<0.005				<0.005	<0.005
1/31/2017		<0.005	<0.005			
2/22/2017				<0.005		
3/30/2017	<0.005	<0.005				
4/3/2017			<0.005			<0.005
4/7/2017				<0.005	<0.005	
6/9/2017	<0.005		<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	<0.005	<0.005	<0.005		<0.005	<0.005
10/3/2017				<0.005		
3/16/2018	<0.005		<0.005		<0.005	<0.005
3/19/2018		0.0016 (J)				
3/21/2018				<0.005		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				<0.005	
9/18/2018				<0.005		<0.005
3/19/2019			<0.005		<0.005	<0.005
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	<0.005	<0.005 (D)		<0.005		<0.005
9/13/2019			<0.005		<0.005	
3/11/2020	<0.005	0.0021 (J)	<0.005		<0.005	<0.005
3/12/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005			<0.005
9/16/2020				<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
9/17/2020				<0.005		
3/16/2021	<0.005		0.0021 (J)	<0.005		
3/17/2021		0.0045 (J)			<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/18/2007			<0.005	<0.005		
11/19/2007					<0.005	<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		
1/31/2008						<0.005
3/5/2008			<0.005		<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					<0.005
5/13/2008					<0.005	
12/13/2008	<0.005				<0.005	<0.005
12/14/2008		<0.005	<0.005	<0.005		
4/16/2009					<0.005	
4/28/2009						<0.005
4/29/2009	<0.005	<0.005	<0.005	<0.005		
10/20/2009	<0.005					
10/21/2009		<0.005			<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	
4/28/2010						<0.005
9/28/2010		<0.005	<0.005			
9/29/2010	<0.005			<0.005		
10/5/2010					<0.005	<0.005
4/12/2011		<0.005	<0.005			
4/13/2011	<0.005			<0.005		
4/19/2011					<0.005	<0.005
10/4/2011		<0.005	<0.005	<0.005		
10/5/2011	<0.005					
10/12/2011					<0.005	
10/18/2011						<0.005
4/3/2012		<0.005	<0.005			
4/4/2012	<0.005			<0.005		
4/24/2012					<0.005	
4/25/2012						<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	<0.005
4/3/2013	<0.005	<0.005	<0.005	<0.005		
10/8/2013						<0.005
10/9/2013			<0.005	<0.005	<0.005	
10/15/2013	<0.005	<0.005				
4/1/2014					<0.005	<0.005
4/2/2014			<0.005	<0.005		
4/9/2014	<0.005	<0.005				
10/1/2014						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2015			<0.005	<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		
10/12/2015		<0.005				
10/14/2015					<0.005	
10/15/2015						0.0055
3/31/2016	<0.005	<0.005				
4/4/2016			<0.005	<0.005	<0.005	0.00286 (J)
5/26/2016	<0.005	<0.005	<0.005	<0.005		
5/27/2016					<0.005	
5/31/2016						0.00303 (J)
8/3/2016		<0.005	<0.005		<0.005	
8/4/2016				<0.005		0.005 (J)
8/5/2016	<0.005					
9/28/2016	<0.005	<0.005	<0.005	<0.005		
9/29/2016						0.0074 (J)
9/30/2016					<0.005	
11/22/2016	<0.005	<0.005	<0.005	<0.005	<0.005	
11/28/2016						0.0073 (J)
2/7/2017	<0.005	<0.005				
2/8/2017			<0.005	<0.005		
2/9/2017						0.0067 (J)
2/13/2017					<0.005	
4/10/2017	<0.005	<0.005	<0.005	<0.005		
4/11/2017					<0.005	
4/12/2017						0.0048 (J)
6/14/2017	<0.005	<0.005			<0.005	
6/15/2017			<0.005	<0.005		
6/16/2017						0.007 (J)
10/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
10/9/2017						0.0048 (J)
3/20/2018	<0.005					
3/21/2018		<0.005	<0.005			0.0021 (J)
3/22/2018				<0.005	<0.005	
9/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
9/19/2018						0.0019 (J)
3/22/2019	<0.005	<0.005				
3/23/2019			<0.005	<0.005	<0.005	<0.005
9/17/2019	<0.005	<0.005	<0.005	<0.005	<0.005 (D)	
9/18/2019						0.0018 (J)
3/12/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
3/13/2020						0.0019 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005	<0.005	<0.005	
9/22/2020						<0.005
3/18/2021	<0.005	<0.005				0.0021 (J)
3/19/2021			<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						<0.005
8/23/2007				<0.005	<0.005	
8/24/2007		<0.005	<0.005			
10/25/2007					<0.005	<0.005
11/1/2007	<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	
11/20/2007						<0.005
1/15/2008		<0.005	<0.005	<0.005		
1/23/2008					<0.005	<0.005
1/31/2008	<0.005					
3/5/2008	<0.005	<0.005				
3/6/2008				<0.005		
3/10/2008			<0.005			
3/11/2008					<0.005	<0.005
5/7/2008	<0.005	<0.005		<0.005		
5/12/2008					<0.005	
5/13/2008			<0.005			
5/14/2008						<0.005
12/2/2008		<0.005	<0.005	<0.005		
12/11/2008					<0.005	<0.005
12/12/2008	<0.005					
4/15/2009					<0.005	
4/16/2009		<0.005				
4/23/2009						<0.005
4/28/2009			<0.005	<0.005		
4/29/2009	<0.005					
10/9/2009					0.015 (o)	<0.005
10/19/2009				<0.005		
10/20/2009		<0.005	<0.005			
10/21/2009	<0.005					
4/20/2010		<0.005				
4/27/2010			<0.005	<0.005		
4/28/2010	<0.005					
5/4/2010					<0.005	<0.005
9/29/2010		<0.005				
10/4/2010				<0.005		
10/5/2010			<0.005			
10/6/2010	<0.005					
10/11/2010						<0.005
10/12/2010					<0.005	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			<0.005			
4/20/2011	<0.005					
4/26/2011						<0.005
4/28/2011					<0.005	
10/4/2011		<0.005				
10/12/2011	<0.005		<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.005	<0.005
10/2/2012	<0.005					
10/8/2012						<0.005
10/9/2012					0.0054	
10/10/2012		<0.005	<0.005	<0.005		
4/2/2013	<0.005					
4/10/2013						<0.005
4/11/2013					0.0072	
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					
4/14/2014						<0.005
4/21/2014		<0.005	<0.005	<0.005		
4/23/2014					0.0067	
9/30/2014		<0.005	<0.005	<0.005		
10/1/2014	<0.005					
10/3/2014					<0.005	<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		
10/9/2015						<0.005
10/12/2015					<0.005	
10/14/2015	<0.005					
3/28/2016					<0.005	
3/29/2016						<0.005
4/4/2016	<0.005					
4/5/2016		<0.005	<0.005	<0.005		
5/24/2016						<0.005
5/25/2016					<0.005	
5/31/2016			<0.005	<0.005		
6/1/2016	<0.005	<0.005				
8/1/2016					<0.005	<0.005
8/4/2016				<0.005		
8/9/2016		<0.005				
9/26/2016						<0.005
9/27/2016					<0.005	
9/29/2016				<0.005		
11/11/2016					<0.005	
11/18/2016						<0.005
11/23/2016			<0.005	0.0016 (J)		
11/28/2016		<0.005				
1/31/2017					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
2/1/2017						<0.005
2/9/2017		<0.005				
2/10/2017			<0.005	<0.005		
2/22/2017	0.0014 (J)					
4/3/2017					<0.005	
4/6/2017						<0.005
4/11/2017	0.0024 (J)	<0.005	<0.005			
4/12/2017				<0.005		
6/12/2017					<0.005	
6/13/2017						<0.005
6/14/2017		<0.005				
6/15/2017			<0.005	<0.005		
6/16/2017	<0.005					
7/12/2017	0.0019 (J)	<0.005	<0.005			
7/26/2017			<0.005			
7/28/2017	<0.005					
8/10/2017	0.0019 (J)					
10/3/2017					<0.005	<0.005
10/5/2017		<0.005				
10/6/2017	<0.005		<0.005	<0.005		
3/19/2018					<0.005	<0.005
3/22/2018		<0.005				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					<0.005	<0.005
9/19/2018		<0.005	<0.005	<0.005		
9/20/2018	<0.005					
3/20/2019					<0.005	
3/21/2019						<0.005
3/22/2019	<0.005	<0.005	<0.005			
3/25/2019				<0.005		
9/16/2019					<0.005	<0.005
9/17/2019		<0.005	<0.005	<0.005		
9/18/2019	<0.005					
3/12/2020						<0.005
3/13/2020		0.0016 (J)	<0.005	<0.005		
3/16/2020					<0.005	
3/17/2020	<0.005					
9/16/2020					<0.005	<0.005
9/21/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005					
3/17/2021					0.0019 (J)	<0.005
3/18/2021		0.0016 (J)	<0.005	<0.005		
3/19/2021	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.005	<0.005
11/1/2007					<0.005	
11/2/2007						<0.005
11/18/2007						<0.005
11/19/2007					<0.005	
1/15/2008					<0.005	
1/31/2008						<0.005
3/6/2008					<0.005	
3/11/2008						<0.005
5/13/2008					<0.005	
5/14/2008						<0.005
12/5/2008						<0.005
12/12/2008					<0.005	
4/15/2009						<0.005
4/16/2009					<0.005	
10/8/2009						<0.005
10/13/2009					<0.005	
4/21/2010					<0.005	
4/28/2010						<0.005
9/29/2010					<0.005	
10/6/2010						<0.005
4/13/2011					<0.005	
4/21/2011						<0.005
10/5/2011					<0.005	
10/13/2011						<0.005
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						<0.005
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						<0.005
4/8/2013			<0.005		<0.005	
4/11/2013						<0.005
10/9/2013			<0.005		<0.005	
10/16/2013						<0.005
4/9/2014					<0.005	
4/10/2014			<0.005			
4/23/2014						<0.005
9/30/2014					<0.005	
10/2/2014			<0.005			
10/4/2014						<0.005
3/31/2015						<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					
10/10/2015				<0.005 (D)		
10/12/2015						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.005		
3/23/2016						<0.005
3/29/2016	<0.005					
3/30/2016			<0.005		0.00202 (J)	
5/23/2016						<0.005
5/24/2016	<0.005		<0.005			
5/25/2016				<0.005		
5/26/2016					<0.005	
5/31/2016		<0.005				
7/29/2016						<0.005
8/1/2016	<0.005					
8/2/2016		<0.005	<0.005	<0.005		
8/5/2016					<0.005	
9/22/2016						<0.005
9/26/2016	<0.005			<0.005		
9/27/2016		<0.005	<0.005			
9/28/2016					<0.005	
11/10/2016						<0.005
11/14/2016	<0.005					
11/21/2016		<0.005		<0.005	<0.005	
11/22/2016			<0.005			
1/31/2017						<0.005
2/1/2017	<0.005	<0.005				
2/3/2017				<0.005		
2/6/2017			<0.005		<0.005	
3/30/2017						<0.005
4/6/2017	<0.005	<0.005	<0.005		<0.005	
4/7/2017				<0.005		
6/12/2017						<0.005
6/13/2017	<0.005	<0.005		<0.005	<0.005	
6/14/2017			<0.005			
7/14/2017		<0.005				
10/3/2017	<0.005	<0.005		<0.005	<0.005	
10/4/2017			<0.005			<0.005
3/19/2018						<0.005
3/20/2018	<0.005	<0.005		<0.005	<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)	
3/20/2019						<0.005
3/21/2019	<0.005	<0.005			<0.005	
3/27/2019			<0.005			
5/6/2019				<0.005		
9/13/2019		<0.005				<0.005
9/16/2019	<0.005		<0.005 (D)	<0.005	<0.005	
3/11/2020						<0.005
3/12/2020	<0.005	<0.005	<0.005		<0.005	
3/16/2020				<0.005		
9/16/2020	<0.005	<0.005				
9/17/2020			<0.005	<0.005	<0.005	
3/17/2021	0.0038 (J)	<0.005	<0.005			
3/18/2021				0.0089	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.005	<0.005	<0.005			
10/23/2007	<0.005					
10/24/2007		<0.005	<0.005			
11/18/2007	<0.005	<0.005	<0.005			
1/30/2008	<0.005					
1/31/2008		<0.005	<0.005			
3/10/2008	<0.005		<0.005			
3/11/2008		<0.005				
5/6/2008		<0.005				
5/13/2008	<0.005		<0.005			
12/4/2008		<0.005	<0.005			
12/5/2008	<0.005					
12/12/2008					<0.005	<0.005
4/15/2009	<0.005					
4/21/2009		<0.005	<0.005			
4/23/2009					<0.005	<0.005
10/6/2009					<0.005	0.0048
10/7/2009	<0.005	<0.005				
10/8/2009			<0.005			
4/21/2010			<0.005			
4/26/2010		<0.005				
4/27/2010					<0.005	
5/3/2010	<0.005					<0.005
9/28/2010			<0.005			
9/30/2010					<0.005	
10/4/2010		<0.005				
10/11/2010						<0.005
10/12/2010	<0.005					
4/12/2011			<0.005			
4/13/2011		<0.005				
4/14/2011					<0.005	
4/27/2011	<0.005					0.004
10/4/2011			<0.005			
10/5/2011		<0.005			<0.005	
10/17/2011	<0.005					
10/19/2011						<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	<0.005
10/8/2012	<0.005					
10/9/2012		<0.005	<0.005			
4/9/2013					<0.005	
4/10/2013						<0.005
4/11/2013			<0.005			
4/12/2013	<0.005					
4/15/2013		<0.005				
10/15/2013		<0.005			<0.005	
10/16/2013	<0.005		<0.005			0.0034
4/10/2014			<0.005		0.0025 (J)	
4/11/2014	<0.005					

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.005				0.0034
9/30/2014	<0.005	<0.005	<0.005			
10/1/2014					<0.005	0.0012 (J)
3/30/2015	<0.005	<0.005	<0.005		<0.005	0.003
10/11/2015					<0.005	0.0018 (J)
10/13/2015	<0.005	<0.005	<0.005			
3/22/2016	<0.005					
3/23/2016		<0.005	<0.005			
3/28/2016					<0.005	0.0022 (J)
7/29/2016	<0.005	<0.005	<0.005			
8/1/2016					0.0004 (J)	0.0016 (J)
3/30/2017	<0.005	<0.005				
4/3/2017			<0.005			0.0022 (J)
4/7/2017				<0.005	0.0005 (J)	
10/2/2017	<0.005	<0.005	<0.005		0.0006 (J)	0.0021 (J)
10/3/2017				<0.005		
3/16/2018	<0.005		<0.005		<0.005	0.0023 (J)
3/19/2018		<0.005				
3/21/2018				<0.005		
9/14/2018		<0.005	<0.005			
9/17/2018	<0.005 (D)				<0.005	
9/18/2018				<0.005		0.0017 (J)
3/19/2019			<0.005		<0.005	0.0017 (J)
3/20/2019	<0.005	<0.005				
3/21/2019				<0.005		
9/12/2019	<0.005	<0.005 (D)		<0.005		0.0028 (J)
9/13/2019			<0.005		0.00045 (J)	
3/11/2020	<0.005	<0.005	<0.005		0.00039 (J)	0.0013 (J)
3/12/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005			0.0012 (J)
9/16/2020					0.00042 (J)	
9/17/2020				<0.005		
3/16/2021	<0.005		<0.005	<0.005		
3/17/2021		<0.005			0.00044 (J)	0.0026 (J)

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/18/2007			<0.005	<0.005		
11/19/2007					<0.005	<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		
1/31/2008						<0.005
3/5/2008			<0.005		0.0046	<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					<0.005
5/13/2008					<0.005	
12/13/2008	<0.005				<0.005	<0.005
12/14/2008		<0.005	<0.005	<0.005		
4/16/2009					<0.005	
4/28/2009						<0.005
4/29/2009	<0.005	<0.005	<0.005	<0.005		
10/20/2009	<0.005					
10/21/2009		<0.005			<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	
4/28/2010						<0.005
9/28/2010		<0.005	<0.005			
9/29/2010	<0.005			<0.005		
10/5/2010					<0.005	<0.005
4/12/2011		<0.005	<0.005			
4/13/2011	<0.005			<0.005		
4/19/2011					<0.005	<0.005
10/4/2011		<0.005	<0.005	<0.005		
10/5/2011	<0.005					
10/12/2011					<0.005	
10/18/2011						<0.005
4/3/2012		<0.005	<0.005			
4/4/2012	<0.005			<0.005		
4/24/2012					<0.005	
4/25/2012						<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	<0.005
4/3/2013	<0.005	<0.005	<0.005	<0.005		
10/8/2013						<0.005
10/9/2013			<0.005	<0.005	<0.005	
10/15/2013	<0.005	<0.005				
4/1/2014					<0.005	<0.005
4/2/2014			<0.005	<0.005		
4/9/2014	<0.005	<0.005				
10/1/2014						<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2015			<0.005	<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		
10/12/2015		<0.005				
10/14/2015					<0.005	
10/15/2015						<0.005
3/31/2016	<0.005	<0.005				
4/4/2016			<0.005	<0.005	<0.005	<0.005
8/3/2016		<0.005	<0.005		<0.005	
8/4/2016				<0.005		<0.005
8/5/2016	<0.005					
4/10/2017	<0.005	<0.005	<0.005	<0.005		
4/11/2017					<0.005	
4/12/2017						<0.005
10/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
10/9/2017						<0.005
3/20/2018	<0.005					
3/21/2018		<0.005	<0.005			<0.005
3/22/2018				<0.005	<0.005	
9/18/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
9/19/2018						<0.005
3/22/2019	<0.005	<0.005				
3/23/2019			<0.005	<0.005	<0.005	<0.005
9/17/2019	<0.005	<0.005	<0.005	<0.005	<0.005 (D)	
9/18/2019						<0.005
3/12/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
3/13/2020						<0.005
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005	<0.005	<0.005	
9/22/2020						<0.005
3/18/2021	<0.005	<0.005				<0.005
3/19/2021			<0.005	<0.005	<0.005	

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.005					
8/22/2007						<0.005
8/23/2007				<0.005	<0.005	
8/24/2007		<0.005	<0.005			
10/25/2007					<0.005	<0.005
11/1/2007	<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	
11/20/2007						<0.005
1/15/2008		<0.005	<0.005	<0.005		
1/23/2008					<0.005	<0.005
1/31/2008	<0.005					
3/5/2008	<0.005	<0.005				
3/6/2008				<0.005		
3/10/2008			<0.005			
3/11/2008					<0.005	<0.005
5/7/2008	<0.005	<0.005		<0.005		
5/12/2008					<0.005	
5/13/2008			<0.005			
5/14/2008						<0.005
12/2/2008		<0.005	<0.005	<0.005		
12/11/2008					<0.005	<0.005
12/12/2008	<0.005					
4/15/2009					<0.005	
4/16/2009		<0.005				
4/23/2009						<0.005
4/28/2009			<0.005	<0.005		
4/29/2009	0.0026					
10/9/2009					<0.005	<0.005
10/19/2009				<0.005		
10/20/2009		<0.005	<0.005			
10/21/2009	<0.005					
4/20/2010		<0.005				
4/27/2010			<0.005	<0.005		
4/28/2010	<0.005					
5/4/2010					<0.005	<0.005
9/29/2010		<0.005				
10/4/2010				<0.005		
10/5/2010			<0.005			
10/6/2010	<0.005					
10/11/2010						<0.005
10/12/2010					<0.005	
4/12/2011		<0.005				
4/18/2011				<0.005		
4/19/2011			<0.005			
4/20/2011	<0.005					
4/26/2011						<0.005
4/28/2011					<0.005	
10/4/2011		<0.005				
10/12/2011	<0.005		<0.005	<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.005	<0.005
10/2/2012	<0.005					
10/8/2012						<0.005
10/9/2012					<0.005	
10/10/2012		<0.005	<0.005	<0.005		
4/2/2013	<0.005					
4/10/2013						<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					
4/14/2014						<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					
10/3/2014					<0.005	<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		
10/9/2015						<0.005
10/12/2015					<0.005	
10/14/2015	<0.005					
3/28/2016					<0.005	
3/29/2016						<0.005
4/4/2016	<0.005					
4/5/2016		<0.005	<0.005	<0.005		
8/1/2016					<0.005	<0.005
8/4/2016				<0.005		
8/9/2016		<0.005				
4/3/2017					<0.005	
4/6/2017						<0.005
4/11/2017	<0.005	<0.005	<0.005			
4/12/2017				<0.005		
10/3/2017					<0.005	<0.005
10/5/2017		<0.005				
10/6/2017	<0.005		<0.005	<0.005		
3/19/2018					<0.005	<0.005
3/22/2018		<0.005				
3/23/2018	<0.005		<0.005	<0.005		
9/17/2018					<0.005	<0.005
9/19/2018		<0.005	<0.005	<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/20/2018	<0.005					
3/20/2019					<0.005	
3/21/2019						<0.005
3/22/2019	<0.005	<0.005	<0.005			
3/25/2019				<0.005		
9/16/2019					<0.005	<0.005
9/17/2019		<0.005	<0.005	<0.005		
9/18/2019	<0.005					
3/12/2020						<0.005
3/13/2020		<0.005	<0.005	<0.005		
3/16/2020					<0.005	
3/17/2020	<0.005					
9/16/2020					<0.005	<0.005
9/21/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005					
3/17/2021					<0.005	<0.005
3/18/2021		<0.005	<0.005	<0.005		
3/19/2021	<0.005					

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.005	<0.005
11/1/2007					<0.005	
11/2/2007						<0.005
11/18/2007						<0.005
11/19/2007					<0.005	
1/15/2008					<0.005	
1/31/2008						<0.005
3/6/2008					<0.005	
3/11/2008						<0.005
5/13/2008					<0.005	
5/14/2008						<0.005
12/5/2008						<0.005
12/12/2008					<0.005	
4/15/2009						<0.005
4/16/2009					<0.005	
10/8/2009						<0.005
10/13/2009					<0.005	
4/21/2010					<0.005	
4/28/2010						<0.005
9/29/2010					<0.005	
10/6/2010						<0.005
4/13/2011					<0.005	
4/21/2011						<0.005
10/5/2011					<0.005	
10/13/2011						<0.005
10/18/2011			<0.005			
4/4/2012					<0.005	
4/30/2012			<0.005			
5/1/2012						<0.005
10/3/2012			<0.005			
10/8/2012					<0.005	
10/9/2012						<0.005
4/8/2013			<0.005		<0.005	
4/11/2013						<0.005
10/9/2013			<0.005		<0.005	
10/16/2013						<0.005
4/9/2014					<0.005	
4/10/2014			<0.005			
4/23/2014						<0.005
9/30/2014					<0.005	
10/2/2014			<0.005			
10/4/2014						<0.005
3/31/2015						<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					
10/10/2015				<0.005 (D)		
10/12/2015						<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.005		
3/23/2016						<0.005
3/29/2016	<0.005					
3/30/2016			<0.005		<0.005	
7/29/2016						<0.005
8/1/2016	<0.005					
8/2/2016		<0.005	<0.005	<0.005		
8/5/2016					<0.005	
3/30/2017						<0.005
4/6/2017	<0.005	<0.005	<0.005		<0.005	
4/7/2017				<0.005		
10/3/2017	<0.005	<0.005		<0.005	<0.005	
10/4/2017			<0.005			<0.005
3/19/2018						<0.005
3/20/2018	<0.005	<0.005		<0.005	<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)	
3/20/2019						<0.005
3/21/2019	<0.005	<0.005			<0.005	
3/27/2019			<0.005			
5/6/2019				<0.005		
9/13/2019		<0.005				<0.005
9/16/2019	<0.005		<0.005 (D)	<0.005	<0.005	
3/11/2020						<0.005
3/12/2020	<0.005	<0.005	<0.005		<0.005	
3/16/2020				<0.005		
9/16/2020	<0.005	<0.005				
9/17/2020			<0.005	<0.005	<0.005	
3/17/2021	<0.005	<0.005	<0.005			
3/18/2021				<0.005	<0.005	
3/29/2021						<0.005

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	2.3685					
3/23/2016		105.552	26.8249			
3/28/2016					0.7283 (J)	0.9594 (J)
5/19/2016	2.14		3.81			
5/20/2016		44.3				
5/23/2016					0.728 (J)	
5/25/2016						1.59
7/29/2016	1.9	48	1.1			
8/1/2016					0.78 (J)	1
9/22/2016			0.96 (J)			
9/23/2016	2	43				
9/26/2016					0.82 (J)	1.2
11/9/2016	1.6	31				
11/10/2016			0.72 (J)		0.92 (J)	
11/11/2016						1.2
1/30/2017	1.8				<1	<1
1/31/2017		4.2	1.5			
2/22/2017				22		
3/30/2017	1.6	53				
4/3/2017			1.3			1.3
4/7/2017				18	0.82 (J)	
6/9/2017	1.7		1.2			
6/12/2017		95			0.78 (J)	1.1
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)	1.1
10/3/2017				25		
12/28/2017				26 (Y)		
3/16/2018	1.5		14.8 (J)		0.67 (J)	0.87 (J)
3/19/2018		147				
3/21/2018				25.4		
9/14/2018		7.7	2.1			
9/17/2018	1.3 (D)				0.47 (J)	
9/18/2018				22.8		0.87 (J)
3/19/2019			32.5 (J)		0.52 (J)	0.97 (J)
3/20/2019	1.5	3.6				
3/21/2019				24.9		
9/12/2019	0.98 (J)	5.2		16.5		0.8 (J)
9/13/2019			3.8		0.55 (J)	
3/11/2020	0.94 (J)	131	34.3		<1	0.85 (J)
3/12/2020				20.8		
9/15/2020	0.96 (J)	35.3	1			0.54 (J)
9/16/2020					<1	
9/17/2020				20.3		
3/16/2021	0.99 (J)		3.3	22.1		
3/17/2021		90.7			<1	0.86 (J)

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	1.17	1.5				
4/4/2016			2.57	2.99	0.3574 (J)	24.8
5/26/2016	1.01	1.51	2.5	2.68		
5/27/2016					<1	
5/31/2016						42.5
8/3/2016		1.4	3		0.35 (J)	
8/4/2016				3.6		91
8/5/2016	1.1					
9/28/2016	1	1.6	2.3	4.4		
9/29/2016						110
9/30/2016					0.47 (J)	
11/22/2016	1.8	1.6	3.8	3.8	0.36 (J)	
11/28/2016						120
2/7/2017	1.7	2				
2/8/2017			3.1	2.7		
2/9/2017						150
2/13/2017					0.79 (J)	
4/10/2017	1.9	1.7	2.5	2.2		
4/11/2017					0.42 (J)	
4/12/2017						120
6/14/2017	1.1	1.4			0.3 (J)	
6/15/2017			2.5	2.3		
6/16/2017						120
10/4/2017	1.8	1.4	2.5	2.8	0.36 (J)	
10/9/2017						130
3/20/2018	1.4					
3/21/2018		1.1	2.4			59.1
3/22/2018				2.2	0.3 (J)	
9/18/2018	1.6	1.9	2.8	2.6	<1	
9/19/2018						64.5
3/22/2019	1.6	1.3				
3/23/2019			2.1	2.1	0.3 (J)	15.5 (J)
9/17/2019	1.2	1.6	2.6	2	<1 (D)	
9/18/2019						50.7
3/12/2020	1.3	0.99 (J)	1.8	1.5	<1	
3/13/2020						16.9
9/17/2020	0.87 (J)	0.95 (J)				
9/21/2020			2	1.8	<1	
9/22/2020						39.6
3/18/2021	1.2	0.96 (J)				19.3
3/19/2021			1.9	1.5	<1	

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					1.87	
3/29/2016						3.5801
4/4/2016	17.5					
4/5/2016		1.65	10.1	7.45		
5/24/2016						2.79
5/25/2016					1.41	
5/31/2016			12.1	7.29		
6/1/2016	20.9	1.75				
8/1/2016					1.5	2.2
8/4/2016				7.6		
9/26/2016						1.8
9/27/2016					1.4	
9/29/2016				6.1		
11/11/2016					1.5	
11/18/2016						1.8
11/23/2016			1.3	10		
11/28/2016		2.7				
1/31/2017					1.8	
2/1/2017						2.8
2/9/2017		2.7				
2/10/2017			4.2	6.7		
2/22/2017	48					
4/3/2017					1.5	
4/6/2017						<1
4/11/2017	41	4.9	3.2			
4/12/2017				9.2		
6/12/2017					2.1	
6/13/2017						2.8
6/14/2017		2.4				
6/15/2017			2.5	9.2		
6/16/2017	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	2.6
10/5/2017		1.6				
10/6/2017	77		6.6	10		
3/19/2018					1.3	2.6
3/22/2018		2.5				
3/23/2018	75.8		1.6	10.6		
9/17/2018					1.3	2.2
9/19/2018		1.7	2.6	10.4		
9/20/2018	72.2					
3/20/2019					1.3	
3/21/2019						2.7
3/22/2019	57.9	6.2	2.1			
3/25/2019				11.2		
9/16/2019					1.2	2
9/17/2019		6.1	1.6	13.1		
9/18/2019	68.1					
3/12/2020						2.1

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/13/2020		11.1	1.1	8.8		
3/16/2020					1.1	
3/17/2020	72.1					
9/16/2020					1.1	1.8
9/21/2020		5.5	0.9 (J)	9		
9/22/2020	69.8					
3/17/2021					1.1	2.2
3/18/2021		7.8	0.76 (J)	10.4		
3/19/2021	74.2					

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				3.9321		
3/23/2016						0.8724 (J)
3/29/2016	1.4863					
3/30/2016			1.9542		2	
5/23/2016						0.805 (J)
5/24/2016	1.62		0.989 (J)			
5/25/2016				2.68		
5/26/2016					2.93	
5/31/2016		2.03				
7/29/2016						0.84 (J)
8/1/2016	2.3					
8/2/2016		0.96 (J)	1	2.7		
8/5/2016					3.6	
9/22/2016						0.94 (J)
9/26/2016	2.4			2.9		
9/27/2016		0.87 (J)	0.95 (J)			
9/28/2016					3.2	
11/10/2016						1.1
11/14/2016	2.8					
11/21/2016		0.93 (J)		2.8	3.3	
11/22/2016			1.1			
1/31/2017						0.92 (J)
2/1/2017	2.6	0.76 (J)				
2/3/2017				2.7		
2/6/2017			0.96 (J)		1.3	
3/30/2017						0.77 (J)
4/6/2017	<1	<1	<1		<1	
4/7/2017				2.3		
6/12/2017						0.68 (J)
6/13/2017	2.2	0.58 (J)		2	2	
6/14/2017			0.97 (J)			
7/14/2017		0.04 (J)				
10/3/2017	2.6	0.87 (J)		1.9	2.8	
10/4/2017			0.84 (J)			0.5 (J)
3/19/2018						0.49 (J)
3/20/2018	2.5	0.5 (J)		1.6	1.2	
3/21/2018			1.2			
9/17/2018	2.5					0.36 (J)
9/18/2018		0.65 (J)	0.9 (J)	1.6	2.6	
3/20/2019						0.38 (J)
3/21/2019	1.7	1.9			2.3	
3/27/2019			1.5			
5/6/2019				2.1		
9/13/2019		0.76 (J)				<1
9/16/2019	1.6		0.69 (JD)	1	3	
3/11/2020						<1
3/12/2020	1.4	1.7	1.8		1.1	
3/16/2020				0.66 (J)		
9/16/2020	1.3	1.1				
9/17/2020			0.6 (J)	0.74 (J)	3.5	
3/17/2021	1.8	1.3	0.72 (J)			
3/18/2021				1.1	2.1	

Time Series

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						5.4

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/30/2015			7E-05			
10/11/2015					<0.001	<0.001
10/13/2015	<0.001	<0.001	<0.001			
3/22/2016	<0.001					
3/23/2016		<0.001	<0.001			
3/28/2016					<0.001	<0.001
5/19/2016	<0.001		<0.001			
5/20/2016		<0.001				
5/23/2016					<0.001	
5/25/2016						<0.001
7/29/2016	<0.001	<0.001	<0.001			
8/1/2016					<0.001	<0.001
9/22/2016			<0.001			
9/23/2016	<0.001	<0.001				
9/26/2016					<0.001	<0.001
11/9/2016	<0.001	<0.001				
11/10/2016			<0.001		<0.001	
11/11/2016						<0.001
1/30/2017	<0.001				<0.001	<0.001
1/31/2017		<0.001	<0.001			
2/22/2017				<0.001		
3/30/2017	<0.001	<0.001				
4/3/2017			<0.001			<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	<0.001
10/3/2017				<0.001		
3/16/2018	<0.001		<0.001		<0.001	<0.001
3/19/2018		<0.001				
3/21/2018				<0.001		
9/14/2018		<0.001	<0.001			
9/17/2018	<0.001 (D)				<0.001	
9/18/2018				<0.001		<0.001
3/19/2019			<0.001		<0.001	<0.001
3/20/2019	<0.001	<0.001				
3/21/2019				<0.001		
9/12/2019	<0.001	<0.001 (D)		<0.001		<0.001
9/13/2019			6.2E-05 (J)		<0.001	
3/11/2020	<0.001	<0.001	<0.001		<0.001	5.9E-05 (J)
3/12/2020				<0.001		
9/15/2020	<0.001	<0.001	<0.001			<0.001
9/16/2020					<0.001	
9/17/2020				<0.001		
3/16/2021	<0.001		<0.001	<0.001		
3/17/2021		<0.001			<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/10/2015	<0.001					
10/11/2015			<0.001	0.0002		
10/12/2015		<0.001				
10/14/2015					<0.001	
10/15/2015						<0.001
3/31/2016	<0.001	<0.001				
4/4/2016			<0.001	<0.001	<0.001	<0.001
5/26/2016	<0.001	<0.001	<0.001	<0.001		
5/27/2016					<0.001	
5/31/2016						<0.001
8/3/2016		0.0001 (J)	<0.001		<0.001	
8/4/2016				<0.001		<0.001
8/5/2016	<0.001					
9/28/2016	<0.001	<0.001	<0.001	<0.001		
9/29/2016						<0.001
9/30/2016					<0.001	
11/22/2016	<0.001	<0.001	<0.001	<0.001	<0.001	
11/28/2016						<0.001
2/7/2017	<0.001	<0.001				
2/8/2017			<0.001	<0.001		
2/9/2017						<0.001
2/13/2017					<0.001	
4/10/2017	<0.001	<0.001	<0.001	<0.001		
4/11/2017					<0.001	
4/12/2017						<0.001
6/14/2017	<0.001	<0.001			<0.001	
6/15/2017			<0.001	<0.001		
6/16/2017						<0.001
10/4/2017	<0.001	<0.001	<0.001	<0.001	<0.001	
10/9/2017						<0.001
3/20/2018	<0.001					
3/21/2018		<0.001	<0.001			<0.001
3/22/2018				<0.001	<0.001	
9/18/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
9/19/2018						<0.001
3/22/2019	<0.001	<0.001				
3/23/2019			<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	<0.001	<0.001	<0.001	<0.001 (D)	
9/18/2019						<0.001
3/12/2020	<0.001	5.4E-05 (J)	<0.001	<0.001	<0.001	
3/13/2020						<0.001
9/17/2020	<0.001	<0.001				
9/21/2020			<0.001	<0.001	<0.001	
9/22/2020						<0.001
3/18/2021	<0.001	<0.001				<0.001
3/19/2021			<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/6/2015			0.0005 (D)			
10/7/2015		<0.001 (D)		<0.001 (D)		
10/9/2015						<0.001
10/12/2015					<0.001	
10/14/2015	<0.001					
3/28/2016					<0.001	
3/29/2016						<0.001
4/4/2016	<0.001					
4/5/2016		<0.001	0.00971 (o)	<0.001		
5/24/2016						<0.001
5/25/2016					<0.001	
5/31/2016			0.000373 (J)	<0.001		
6/1/2016	<0.001	<0.001				
8/1/2016					<0.001	<0.001
8/4/2016				<0.001		
8/9/2016		<0.001				
9/26/2016						<0.001
9/27/2016					<0.001	
9/29/2016				<0.001		
11/11/2016					<0.001	
11/18/2016						<0.001
11/23/2016			<0.001	<0.001		
11/28/2016		<0.001				
1/31/2017					<0.001	
2/1/2017						<0.001
2/9/2017		<0.001				
2/10/2017			<0.001	<0.001		
2/22/2017	<0.001					
4/3/2017					<0.001	
4/6/2017						5E-05 (J)
4/11/2017	<0.001	<0.001	<0.001			
4/12/2017				<0.001		
6/12/2017					<0.001	
6/13/2017						<0.001
6/14/2017		<0.001				
6/15/2017			<0.001	<0.001		
6/16/2017	<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	<0.001
10/5/2017		<0.001				
10/6/2017	<0.001		<0.001	<0.001		
3/19/2018					<0.001	<0.001
3/22/2018		<0.001				
3/23/2018	<0.001		<0.001	<0.001		
9/17/2018					<0.001	<0.001
9/19/2018		<0.001	<0.001	<0.001		
9/20/2018	<0.001					
3/20/2019					<0.001	
3/21/2019						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/22/2019	<0.001	<0.001	<0.001			
3/25/2019				<0.001		
9/16/2019					8.4E-05 (J)	<0.001
9/17/2019		<0.001	<0.001	<0.001		
9/18/2019	<0.001					
3/12/2020						<0.001
3/13/2020		<0.001	<0.001	<0.001		
3/16/2020					<0.001	
3/17/2020	<0.001					
9/16/2020					<0.001	<0.001
9/21/2020		<0.001	<0.001	<0.001		
9/22/2020	<0.001					
3/17/2021					<0.001	<0.001
3/18/2021		<0.001	<0.001	<0.001		
3/19/2021	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
10/8/2015			<0.001 (D)	0.0001 (D)		
10/9/2015	<0.001					
10/10/2015					<0.001	
10/12/2015						<0.001
3/22/2016				<0.001		
3/23/2016						<0.001
3/29/2016	<0.001					
3/30/2016			<0.001		<0.001	
5/23/2016						<0.001
5/24/2016	<0.001		<0.001			
5/25/2016				<0.001		
5/26/2016					<0.001	
5/31/2016		<0.001				
7/29/2016						<0.001
8/1/2016	<0.001					
8/2/2016		<0.001	<0.001	<0.001		
8/5/2016					<0.001	
9/22/2016						<0.001
9/26/2016	<0.001			<0.001		
9/27/2016		<0.001	<0.001			
9/28/2016					<0.001	
11/10/2016						<0.001
11/14/2016	<0.001					
11/21/2016		<0.001		<0.001	<0.001	
11/22/2016			<0.001			
1/31/2017						<0.001
2/1/2017	<0.001	<0.001				
2/3/2017				<0.001		
2/6/2017			<0.001		<0.001	
3/30/2017						<0.001
4/6/2017	<0.001	<0.001	<0.001		<0.001	
4/7/2017				<0.001		
6/12/2017						<0.001
6/13/2017	<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	
10/4/2017			<0.001			<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)	
3/20/2019						<0.001
3/21/2019	<0.001	<0.001			<0.001	
3/27/2019			<0.001			
5/6/2019				<0.001		
9/13/2019		5.7E-05 (J)				<0.001
9/16/2019	<0.001		<0.001 (D)	<0.001	<0.001	
3/11/2020						<0.001
3/12/2020	<0.001	0.00022 (J)	<0.001		<0.001	
3/16/2020				<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
9/16/2020	<0.001	0.00019 (J)				
9/17/2020			<0.001	<0.001	<0.001	
3/17/2021	<0.001	0.00015 (J)	<0.001			
3/18/2021				<0.001	<0.001	
3/29/2021						<0.001

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
3/22/2016	150					
3/23/2016		259	174			
3/28/2016					<10	46
5/19/2016	150		93			
5/20/2016		122				
5/23/2016					32	
5/25/2016						57
7/29/2016	146	156	68			
8/1/2016					<10	<10
9/22/2016			91			
9/23/2016	163	150				
9/26/2016					45	60
11/9/2016	147	87				
11/10/2016			96		38	
11/11/2016						13 (J)
1/30/2017	127				<10	<10
1/31/2017		63	206			
2/22/2017				329		
3/30/2017	137	112				
4/3/2017			118			100
4/7/2017				295	18 (J)	
6/9/2017	164		87			
6/12/2017		216			15 (J)	51
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	<10	73		17 (J)	32
10/3/2017				224		
3/16/2018	140		130		<10	<10
3/19/2018		295				
3/21/2018				237		
9/14/2018		30	103			
9/17/2018	162				38	
9/18/2018				227		15 (J)
3/19/2019			208		34	48
3/20/2019	175	49				
3/21/2019				367		
9/12/2019	174	44		200		46
9/13/2019			113		19	
3/11/2020	172	309	170		17	24
3/12/2020				247		
9/15/2020	156	28	89			12
9/16/2020					20	
9/17/2020				223		
3/16/2021	155		102	196		
3/17/2021		211			<10	31

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
3/31/2016	122	135				
4/4/2016			79	135	58	156
5/26/2016	143	163	105	124		
5/27/2016					66	
5/31/2016						192
8/3/2016		159	106		65	
8/4/2016				109		269
8/5/2016	143					
9/28/2016	160	208	148	104		
9/29/2016						288
9/30/2016					60	
11/22/2016	149	152	88	94	63	
11/28/2016						224
2/7/2017	123	128				
2/8/2017			62	141 (J)		
2/9/2017						386
2/13/2017					104 (J)	
4/10/2017	95	186	92	114		
4/11/2017					63	
4/12/2017						254
6/14/2017	150	150			97	
6/15/2017			96	153		
6/16/2017						309
10/4/2017	140	153	78	121	74	
10/9/2017						269
3/20/2018	93					
3/21/2018		192	111			211
3/22/2018				139	54	
9/18/2018	155	155	106	139	73	
9/19/2018						222
3/22/2019	95	140				
3/23/2019			64	148	58	135
9/17/2019	165	172	101	143	62	
9/18/2019						200
3/12/2020	63	81	96	125	64	
3/13/2020						143
9/17/2020	140	125				
9/21/2020			93	145	62	
9/22/2020						176
3/18/2021	74	62				82
3/19/2021			79	135	53	

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/28/2016					<10	
3/29/2016						51
4/4/2016	110					
4/5/2016		42	53	103		
5/24/2016						76
5/25/2016					34	
5/31/2016			70	157		
6/1/2016	121	63				
8/1/2016					25	69
8/4/2016				154		
8/9/2016		267				
9/26/2016						103
9/27/2016					20 (J)	
9/29/2016				142		
11/11/2016					41	
11/18/2016						77
11/23/2016			118	172		
11/28/2016		116				
1/31/2017					127	
2/1/2017						168
2/9/2017		212 (J)				
2/10/2017			214	237		
2/22/2017	311					
4/3/2017					69	
4/6/2017						95
4/11/2017	212	113	127			
4/12/2017				168		
6/12/2017					46	
6/13/2017						101
6/14/2017		120				
6/15/2017			126	176		
6/16/2017	262					
7/12/2017	310	153	164			
7/26/2017			129			
7/28/2017	289					
8/10/2017	288					
10/3/2017					34	83
10/5/2017		102				
10/6/2017	268		140	155		
3/19/2018					<10	70
3/22/2018		115				
3/23/2018	281		119	170		
9/17/2018					38	77
9/19/2018		114	138	181		
9/20/2018	297					
3/20/2019					66	
3/21/2019						80
3/22/2019	249	104	116			
3/25/2019				167		
9/16/2019					45	82
9/17/2019		86	117	179		
9/18/2019	281					

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
3/12/2020						42
3/13/2020		59	76	169		
3/16/2020					20	
3/17/2020	256					
9/16/2020					30	77
9/21/2020		94	122	186		
9/22/2020	248					
3/17/2021					15	47
3/18/2021		57	54	153		
3/19/2021	250					

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				111		
3/23/2016						<10
3/29/2016	64					
3/30/2016			104		26	
5/23/2016						<10
5/24/2016	77		94			
5/25/2016				95		
5/26/2016					70	
5/31/2016		120				
7/29/2016						17 (J)
8/1/2016	35					
8/2/2016		100	105	124		
8/5/2016					95	
9/22/2016						33
9/26/2016	111			140		
9/27/2016		121	119			
9/28/2016					152	
11/10/2016						41
11/14/2016	76					
11/21/2016		164		154	145	
11/22/2016			105			
1/31/2017						58
2/1/2017	126	144				
2/3/2017				113		
2/6/2017			99		20 (J)	
3/30/2017						<10
4/6/2017	146	125	124		17 (J)	
4/7/2017				147		
6/12/2017						20 (J)
6/13/2017	84	148		117	32	
6/14/2017			114			
7/14/2017		121				
10/3/2017	70	117		150	71	
10/4/2017			107			<10
3/19/2018						<10
3/20/2018	78	136		121	49	
3/21/2018			117			
9/17/2018	74					32
9/18/2018		116	110	93	38	
3/20/2019						30
3/21/2019	60	107			39	
3/27/2019			101			
5/6/2019				118		
9/13/2019		115				19
9/16/2019	65		113	99	85	
3/11/2020						24
3/12/2020	22	86	84		16	
3/16/2020				76		
9/16/2020	52	124				
9/17/2020			111	98	94	
3/17/2021	43	112	113			
3/18/2021				48	<10	

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/29/2021						76

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	<0.01	<0.01	<0.01			
10/23/2007	<0.01					
10/24/2007		<0.01	<0.01			
11/18/2007	<0.01	0.0051	<0.01			
1/30/2008	<0.01					
1/31/2008		<0.01	0.0078			
3/10/2008	<0.01		<0.01			
3/11/2008		0.0032				
5/6/2008		<0.01				
5/13/2008	<0.01		<0.01			
12/4/2008		0.016 (o)	<0.01			
12/5/2008	<0.01					
12/12/2008					<0.01	<0.01
4/15/2009	<0.01					
4/21/2009		0.005	0.0036			
4/23/2009					<0.01	0.0065
10/6/2009					<0.01	0.0026
10/7/2009	0.0099	<0.01				
10/8/2009			<0.01			
4/21/2010			<0.01			
4/26/2010		<0.01				
4/27/2010				<0.01		
5/3/2010	<0.01					0.0028
9/28/2010			<0.01			
9/30/2010				<0.01		
10/4/2010		0.0025				
10/11/2010						0.0035
10/12/2010	<0.01					
4/12/2011			<0.01			
4/13/2011		<0.01				
4/14/2011				<0.01		
4/27/2011	<0.01					0.0047
10/4/2011			<0.01			
10/5/2011		<0.01			<0.01	
10/17/2011	<0.01					
10/19/2011						<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	<0.01
10/8/2012	<0.01					
10/9/2012		<0.01	<0.01			
4/9/2013					<0.01	
4/10/2013						<0.01
4/11/2013			<0.01			
4/12/2013	<0.01					
4/15/2013		<0.01				
10/15/2013		<0.01			<0.01	
10/16/2013	<0.01		<0.01			<0.01
4/10/2014			0.005 (J)		<0.01	
4/11/2014	<0.01					

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		<0.01				0.005 (J)
9/30/2014	<0.01	<0.01	<0.01			
10/1/2014					<0.01	<0.01
3/30/2015	0.0067	0.0016 (J)	<0.01		<0.01	0.0032 (J)
10/11/2015					<0.01	<0.01
10/13/2015	<0.01	<0.01	<0.01			
3/22/2016	0.00214 (J)					
3/23/2016		<0.01	<0.01			
3/28/2016					<0.01	<0.01
7/29/2016	<0.01	<0.01	<0.01			
8/1/2016					<0.01	<0.01
3/30/2017	<0.01	<0.01				
4/3/2017			<0.01			<0.01
4/7/2017				<0.01	<0.01	
10/2/2017	<0.01	<0.01	<0.01		<0.01	<0.01
10/3/2017				<0.01		
3/16/2018	<0.01		<0.01		<0.01	<0.01
3/19/2018		<0.01				
3/21/2018				<0.01		
9/14/2018		<0.01	<0.01			
9/17/2018	<0.01 (D)				<0.01	
9/18/2018				<0.01		<0.01
3/19/2019			<0.01		<0.01	<0.01
3/20/2019	<0.01	<0.01				
3/21/2019				<0.01		
9/12/2019	<0.01	<0.01 (D)		0.00084 (J)		<0.01
9/13/2019			0.001 (J)		<0.01	
3/11/2020	<0.01	<0.01	0.00084 (J)		<0.01	<0.01
3/12/2020				<0.01		
9/15/2020	<0.01	<0.01	<0.01			<0.01
9/16/2020					<0.01	
9/17/2020				<0.01		
3/16/2021	<0.01		<0.01	<0.01		
3/17/2021		<0.01			<0.01	<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/18/2007			<0.01	<0.01		
11/19/2007					<0.01	0.0035
11/20/2007	0.0034	<0.01				
1/16/2008					0.0071	
1/30/2008	0.005	<0.01	<0.01	<0.01		
1/31/2008						0.0039
3/5/2008			<0.01		0.0031	<0.01
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					0.0064
5/13/2008					<0.01	
12/13/2008	0.0082				<0.01	0.02 (o)
12/14/2008		<0.01	0.0026	0.0056		
4/16/2009					0.0037	
4/28/2009						0.0039
4/29/2009	<0.01	<0.01	<0.01	0.018 (o)		
10/20/2009	<0.01					
10/21/2009		<0.01			0.0047	0.0037
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	
4/28/2010						<0.01
9/28/2010		<0.01	<0.01			
9/29/2010	<0.01			0.0065		
10/5/2010					<0.01	<0.01
4/12/2011		<0.01	<0.01			
4/13/2011	<0.01			0.004		
4/19/2011					0.0036	0.0025
10/4/2011		<0.01	<0.01	0.0054		
10/5/2011	<0.01					
10/12/2011					<0.01	
10/18/2011						0.0037
4/3/2012		<0.01	<0.01			
4/4/2012	<0.01			<0.01		
4/24/2012					<0.01	
4/25/2012						<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	<0.01
4/3/2013	<0.01	<0.01	<0.01	<0.01		
10/8/2013						<0.01
10/9/2013			<0.01	<0.01	<0.01	
10/15/2013	<0.01	<0.01				
4/1/2014					<0.01	0.005 (J)
4/2/2014			<0.01	0.005 (J)		
4/9/2014	<0.01	<0.01				
10/1/2014						<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2015			<0.01	0.0067	<0.01	0.0019 (J)
4/2/2015	<0.01	<0.01				
10/10/2015	<0.01					
10/11/2015			<0.01	0.0049 (J)		
10/12/2015		<0.01				
10/14/2015					0.0022 (J)	
10/15/2015						<0.01
3/31/2016	<0.01	<0.01				
4/4/2016			<0.01	0.00251 (J)	<0.01	0.00211 (J)
8/3/2016		<0.01	<0.01		<0.01	
8/4/2016				<0.01		<0.01
8/5/2016	<0.01					
4/10/2017	<0.01	<0.01	<0.01	<0.01		
4/11/2017					<0.01	
4/12/2017						0.0016 (J)
10/4/2017	<0.01	<0.01	<0.01	0.0015 (J)	<0.01	
10/9/2017						<0.01
3/20/2018	<0.01					
3/21/2018		<0.01	<0.01			<0.01
3/22/2018				<0.01	<0.01	
9/18/2018	<0.01	<0.01	<0.01	0.0022 (J)	<0.01	
9/19/2018						0.0022 (J)
3/22/2019	<0.01	<0.01				
3/23/2019			<0.01	<0.01	<0.01	<0.01
9/17/2019	<0.01	<0.01	<0.01	<0.01	<0.01 (D)	
9/18/2019						<0.01
3/12/2020	<0.01	<0.01	<0.01	<0.01	<0.01	
3/13/2020						0.002 (J)
9/17/2020	<0.01	<0.01				
9/21/2020			<0.01	<0.01	<0.01	
9/22/2020						<0.01
3/18/2021	<0.01	<0.01				<0.01
3/19/2021			<0.01	<0.01	<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.01					
8/22/2007						<0.01
8/23/2007				<0.01	0.0032	
8/24/2007		0.012	0.0027			
10/25/2007					<0.01	<0.01
11/1/2007	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	0.0054				<0.01	
11/20/2007						<0.01
1/15/2008		0.0037	0.018	<0.01		
1/23/2008					<0.01	0.007
1/31/2008	0.003					
3/5/2008	<0.01	0.0049				
3/6/2008				<0.01		
3/10/2008			0.014			
3/11/2008					<0.01	0.0033
5/7/2008	0.0041	<0.01		<0.01		
5/12/2008					<0.01	
5/13/2008			0.013			
5/14/2008						0.0043
12/2/2008		0.0097	0.016	<0.01		
12/11/2008					<0.01	<0.01
12/12/2008	0.023 (o)					
4/15/2009					<0.01	
4/16/2009		0.0061				
4/23/2009						<0.01
4/28/2009			0.016	<0.01		
4/29/2009	0.006					
10/9/2009					<0.01	0.0043
10/19/2009				<0.01		
10/20/2009		0.0092	0.021			
10/21/2009	0.022 (o)					
4/20/2010		<0.01				
4/27/2010			0.012	<0.01		
4/28/2010	0.011					
5/4/2010					<0.01	0.0027
9/29/2010		<0.01				
10/4/2010				<0.01		
10/5/2010			0.011			
10/6/2010	0.0064					
10/11/2010						0.0034
10/12/2010					<0.01	
4/12/2011		<0.01				
4/18/2011				<0.01		
4/19/2011			0.012			
4/20/2011	0.0046					
4/26/2011						<0.01
4/28/2011					<0.01	
10/4/2011		<0.01				
10/12/2011	<0.01		0.0031	<0.01		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
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			
5/2/2012					<0.01	<0.01
10/2/2012	<0.01					
10/8/2012						<0.01
10/9/2012					<0.01	
10/10/2012		<0.01	<0.01	<0.01		
4/2/2013	<0.01					
4/10/2013						<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)					
4/14/2014						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					
10/3/2014					0.00097 (J)	0.0016 (J)
3/31/2015	<0.01				0.00096 (J)	
4/1/2015						0.0021 (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		
10/9/2015						<0.01
10/12/2015					<0.01	
10/14/2015	<0.01					
3/28/2016					<0.01	
3/29/2016						<0.01
4/4/2016	<0.01					
4/5/2016		<0.01	0.00036 (J)	<0.01		
8/1/2016					<0.01	<0.01
8/4/2016				<0.01		
8/9/2016		<0.01				
4/3/2017					<0.01	
4/6/2017						<0.01
4/11/2017	<0.01	<0.01	<0.01			
4/12/2017				<0.01		
10/3/2017					<0.01	<0.01
10/5/2017		<0.01				
10/6/2017	<0.01		<0.01	<0.01		
3/19/2018					<0.01	<0.01
3/22/2018		<0.01				
3/23/2018	<0.01		<0.01	<0.01		
9/17/2018					<0.01	<0.01
9/19/2018		<0.01	<0.01	<0.01		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/20/2018	<0.01					
3/20/2019					<0.01	
3/21/2019						<0.01
3/22/2019	<0.01	<0.01	<0.01			
3/25/2019				<0.01		
9/16/2019					<0.01	<0.01
9/17/2019		<0.01	<0.01	<0.01		
9/18/2019	<0.01					
3/12/2020						<0.01
3/13/2020		<0.01	0.00095 (J)	0.00077 (J)		
3/16/2020					<0.01	
3/17/2020	<0.01					
9/16/2020					<0.01	<0.01
9/21/2020		<0.01	<0.01	<0.01		
9/22/2020	<0.01					
3/17/2021					<0.01	<0.01
3/18/2021		<0.01	<0.01	<0.01		
3/19/2021	<0.01					

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					<0.01	<0.01
11/1/2007					<0.01	
11/2/2007						<0.01
11/18/2007						0.0046
11/19/2007					0.0052	
1/15/2008					0.0065	
1/31/2008						<0.01
3/6/2008					0.0028	
3/11/2008						<0.01
5/13/2008					<0.01	
5/14/2008						<0.01
12/5/2008						<0.01
12/12/2008					<0.01	
4/15/2009						<0.01
4/16/2009					0.0033	
10/8/2009						<0.01
10/13/2009					<0.01	
4/21/2010					<0.01	
4/28/2010						<0.01
9/29/2010					<0.01	
10/6/2010						<0.01
4/13/2011					<0.01	
4/21/2011						<0.01
10/5/2011					<0.01	
10/13/2011						<0.01
10/18/2011			<0.01			
4/4/2012					<0.01	
4/30/2012			<0.01			
5/1/2012						<0.01
10/3/2012			<0.01			
10/8/2012					<0.01	
10/9/2012						<0.01
4/8/2013			<0.01		<0.01	
4/11/2013						<0.01
10/9/2013			<0.01		<0.01	
10/16/2013						<0.01
4/9/2014					<0.01	
4/10/2014			0.005 (J)			
4/23/2014						<0.01
9/30/2014					<0.01	
10/2/2014			<0.01			
10/4/2014						<0.01
3/31/2015						0.0023 (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					
10/10/2015					0.00195 (D)	
10/12/2015						<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				<0.01		
3/23/2016						<0.01
3/29/2016	<0.01					
3/30/2016			<0.01		<0.01	
7/29/2016						<0.01
8/1/2016	<0.01					
8/2/2016		<0.01	<0.01	<0.01		
8/5/2016					<0.01	
3/30/2017						<0.01
4/6/2017	<0.01	<0.01	<0.01		<0.01	
4/7/2017				<0.01		
10/3/2017	<0.01	<0.01		<0.01	<0.01	
10/4/2017			<0.01			<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)	
3/20/2019						<0.01
3/21/2019	<0.01	<0.01			<0.01	
3/27/2019			<0.01			
5/6/2019				<0.01		
9/13/2019		<0.01				<0.01
9/16/2019	<0.01		<0.01 (D)	<0.01	<0.01	
3/11/2020						<0.01
3/12/2020	<0.01	<0.01	<0.01		<0.01	
3/16/2020				<0.01		
9/16/2020	<0.01	<0.01				
9/17/2020			<0.01	<0.01	<0.01	
3/17/2021	<0.01	<0.01	<0.01			
3/18/2021				<0.01	<0.01	
3/29/2021						<0.01

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
8/23/2007	0.032 (o)	0.0033	0.0079			
10/23/2007	0.0099					
10/24/2007		0.043 (o)	<0.02			
11/18/2007	0.0095 (J)	0.024	0.015			
1/30/2008	0.022 (o)					
1/31/2008		0.015	0.063 (O)			
3/10/2008	0.014		0.013 (J)			
3/11/2008		0.027				
5/6/2008		0.0032				
5/13/2008	0.0075		0.0072			
12/4/2008		0.081 (o)	0.011 (J)			
12/5/2008	0.0056 (J)					
12/12/2008					0.048 (o)	0.013 (J)
4/15/2009	0.0033					
4/21/2009		0.0057	0.0041			
4/23/2009					0.0075	0.075 (o)
10/6/2009					0.0075	0.056 (o)
10/7/2009	0.061 (o)	<0.02				
10/8/2009			<0.02			
4/21/2010			<0.02			
4/26/2010		<0.02				
4/27/2010					0.0051	
5/3/2010	0.0033					0.051 (o)
9/28/2010			0.0081			
9/30/2010					0.0089	
10/4/2010		0.0057				
10/11/2010						0.016
10/12/2010	0.0041					
4/12/2011			0.0025			
4/13/2011		<0.02				
4/14/2011					0.0043	
4/27/2011	<0.02					0.025 (o)
10/4/2011			0.0027			
10/5/2011		<0.02			0.0051	
10/17/2011	0.0046					
10/19/2011						0.0078
4/3/2012			<0.02			
4/11/2012		<0.02			<0.02	
5/1/2012						0.0134
5/2/2012	<0.02					
10/2/2012					0.006	0.012
10/8/2012	0.0053					
10/9/2012		<0.02	0.0064			
4/9/2013					0.0034	
4/10/2013						0.018
4/11/2013			<0.02			
4/12/2013	0.006					
4/15/2013		0.0038				
10/15/2013		0.0044			0.0042	
10/16/2013	0.0048		<0.02			0.015
4/10/2014			0.0026		0.0035	
4/11/2014	0.0033					

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWA-2 (bg)	GWA-2R (bg)	GWA-4RZ (bg)	GWA-50 (bg)	GWA-50R (bg)
4/22/2014		0.0025 (J)				0.015
9/30/2014	0.002 (J)	0.00076 (J)	0.0012 (J)			
10/1/2014					0.0019 (J)	0.0038
3/30/2015	0.012	0.0024 (J)	0.013		0.0032	0.0097
10/11/2015					0.0048	0.0024 (J)
10/13/2015	0.011	0.0017 (J)	0.0043			
3/22/2016	0.00346 (J)					
3/23/2016		<0.02	<0.02			
3/28/2016					0.00282 (J)	0.00703 (J)
7/29/2016	<0.02	<0.02	<0.02			
8/1/2016					<0.02	<0.02
3/30/2017	<0.02	<0.02				
4/3/2017			<0.02			<0.02
4/7/2017				<0.02	<0.02	
10/2/2017	<0.02	<0.02	<0.02		0.0015 (J)	0.0016 (J)
10/3/2017				<0.02		
3/16/2018	<0.02		<0.02		<0.02	<0.02
3/19/2018		<0.02				
3/21/2018				<0.02		
9/14/2018		<0.02	<0.02			
9/17/2018	<0.02 (D)				<0.02	
9/18/2018				<0.02		<0.02
3/19/2019			<0.02		<0.02	<0.02
3/20/2019	<0.02	<0.02				
3/21/2019				0.0034 (J)		
9/12/2019	0.0047 (J)	0.00505 (JD)		0.0072 (J)		0.0058 (J)
9/13/2019			0.0078 (J)		0.0061 (J)	
3/11/2020	0.0035 (J)	0.0028 (J)	0.0038 (J)		0.0025 (J)	0.0033 (J)
3/12/2020				0.0027 (J)		
9/15/2020	<0.02	<0.02	<0.02			<0.02
9/16/2020					<0.02	
9/17/2020				0.0047 (J)		
3/16/2021	0.0091 (J)		<0.02	<0.02		
3/17/2021		<0.02			<0.02	<0.02

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
8/21/2007	0.031	0.0066	<0.02	<0.02	0.036	0.0064
11/1/2007	0.0041	0.0086	<0.02	<0.02	0.0041	<0.02
11/18/2007			<0.02	<0.02		
11/19/2007					0.015	0.015
11/20/2007	0.056	0.005				
1/16/2008					0.074	
1/30/2008	0.032	0.0084	<0.02	<0.02		
1/31/2008						0.032 (o)
3/5/2008			<0.02		0.055	0.0061
3/6/2008	0.03	0.0073		0.0038		
5/7/2008			0.015	<0.02		
5/8/2008		0.0084				
5/12/2008	0.008					0.012
5/13/2008					0.035	
12/13/2008	0.056				0.012 (J)	0.087 (o)
12/14/2008		0.0075 (J)	0.0086 (J)	0.0031 (J)		
4/16/2009					0.053	
4/28/2009						0.067 (o)
4/29/2009	0.057	0.0028	0.0037	0.0031		
10/20/2009	0.0037					
10/21/2009		<0.02			0.0063	0.025 (o)
10/22/2009			<0.02	0.0029		
4/21/2010		<0.02	<0.02	0.0027		
4/26/2010	<0.02					
4/27/2010					0.045	
4/28/2010						0.014
9/28/2010		0.005	0.0042			
9/29/2010	0.012			<0.02		
10/5/2010					0.0047	0.012
4/12/2011		<0.02	<0.02			
4/13/2011	<0.02			<0.02		
4/19/2011					0.0068	0.012
10/4/2011		0.0088	0.012	0.003		
10/5/2011	0.0031					
10/12/2011					0.0048	
10/18/2011						0.025
4/3/2012		<0.02	<0.02			
4/4/2012	<0.02			<0.02		
4/24/2012					<0.02	
4/25/2012						0.014
10/2/2012					<0.02	0.0089
10/3/2012	0.0085		<0.02	0.0029		
10/8/2012		0.0034				
4/2/2013					0.0081	0.0082
4/3/2013	0.0061	<0.02	<0.02	0.0035		
10/8/2013						0.015
10/9/2013			<0.02	<0.02	0.0032	
10/15/2013	0.008	0.0027				
4/1/2014					0.0025 (J)	0.0074
4/2/2014			0.0063	0.0033		
4/9/2014	0.0048	0.0025 (J)				
10/1/2014						0.00077 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10R	GWC-11	GWC-11R	GWC-12	GWC-13
10/2/2014	0.0023 (JV)	0.0027 (V)	0.0023 (J)	0.0027	0.0023 (J)	
4/1/2015			0.0017 (J)	0.013	0.0035	0.0082
4/2/2015	0.0023 (J)	0.002 (J)				
10/10/2015	0.0024 (J)					
10/11/2015			0.0016 (J)	0.017		
10/12/2015		<0.02				
10/14/2015					0.0066	
10/15/2015						0.0082
3/31/2016	<0.02	0.00266 (J)				
4/4/2016			<0.02	0.00419 (J)	0.00858 (J)	0.00818 (J)
8/3/2016		<0.02	<0.02		<0.02	
8/4/2016				<0.02		<0.02
8/5/2016	<0.02					
4/10/2017	<0.02	<0.02	<0.02	<0.02		
4/11/2017					<0.02	
4/12/2017						<0.02
10/4/2017	0.0012 (J)	<0.02	0.0014 (J)	0.0014 (J)	0.0104	
10/9/2017						<0.02
3/20/2018	<0.02					
3/21/2018		<0.02	<0.02			<0.02
3/22/2018				<0.02	0.014	
9/18/2018	<0.02	<0.02	<0.02	<0.02	0.013	
9/19/2018						<0.02
3/22/2019	<0.02	<0.02				
3/23/2019			<0.02	<0.02	0.012	0.021
9/17/2019	0.0052 (J)	0.0048 (J)	0.0056 (J)	0.0075 (J)	0.018 (D)	
9/18/2019						0.007 (J)
3/12/2020	0.0024 (J)	0.0027 (J)	0.0038 (J)	0.0053 (J)	0.015	
3/13/2020						0.0043 (J)
9/17/2020	<0.02	<0.02				
9/21/2020			<0.02	0.0037 (J)	0.0065 (J)	
9/22/2020						<0.02
3/18/2021	<0.02	<0.02				<0.02
3/19/2021			<0.02	<0.02	0.0076 (J)	

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
8/21/2007	<0.02					
8/22/2007						0.04 (o)
8/23/2007				0.0038	0.016	
8/24/2007		0.0036 (J)	0.052 (o)			
10/25/2007					0.061	0.0062
11/1/2007	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	0.0055				0.053	
11/20/2007						0.03 (o)
1/15/2008		0.0074	0.055 (o)	0.012		
1/23/2008					0.14	0.048 (o)
1/31/2008	0.0063					
3/5/2008	0.0037	0.075 (o)				
3/6/2008				0.0069		
3/10/2008			0.018			
3/11/2008					0.13	0.016
5/7/2008	0.0033	0.0088		0.007		
5/12/2008					0.11	
5/13/2008			0.0044			
5/14/2008						0.02
12/2/2008		0.11 (o)	0.065 (o)	0.021 (O)		
12/11/2008					0.04 (J)	0.021
12/12/2008	0.097 (O)					
4/15/2009					0.11	
4/16/2009		0.091 (o)				
4/23/2009						0.0058 (J)
4/28/2009			0.0037 (J)	0.0055		
4/29/2009	0.068 (O)					
10/9/2009					0.15	0.055 (o)
10/19/2009				0.0051		
10/20/2009		0.056 (o)	0.0043			
10/21/2009	0.011					
4/20/2010		0.014				
4/27/2010			<0.02	0.0068		
4/28/2010	0.048 (O)					
5/4/2010					0.077	0.045 (o)
9/29/2010		0.015				
10/4/2010				0.0074		
10/5/2010			0.0028			
10/6/2010	0.003					
10/11/2010						0.015
10/12/2010					0.077	
4/12/2011		0.0028				
4/18/2011				0.0031		
4/19/2011			<0.02			
4/20/2011	0.0038					
4/26/2011						0.0067
4/28/2011					0.032	
10/4/2011		0.0025				
10/12/2011	0.0027		<0.02	0.0067		

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
10/18/2011						0.0055
10/19/2011					0.11	
4/4/2012		0.0105				
4/23/2012				<0.02		
4/25/2012	<0.02		<0.02			
5/2/2012					0.138	<0.02
10/2/2012	0.0059					
10/8/2012						0.0043
10/9/2012					0.097	
10/10/2012		0.0033	<0.02	0.0046		
4/2/2013	0.008					
4/10/2013						0.0067
4/11/2013					0.047	
4/15/2013		0.0031		0.006		
4/16/2013			0.005			
10/8/2013	0.0062					0.0091
10/16/2013					0.098	
10/22/2013		<0.02	0.0028	0.0037		
4/1/2014	0.0067					
4/14/2014						0.0063
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	0.0024 (J)					
10/3/2014					0.13 (V)	0.0065 (V)
3/31/2015	0.0046				0.05	
4/1/2015						0.0059
4/3/2015		0.0015 (J)	0.0021 (J)	0.0017 (J)		
10/6/2015			<0.02			
10/7/2015		<0.02		0.0042		
10/9/2015						<0.02
10/12/2015					0.048	
10/14/2015	0.002 (J)					
3/28/2016					0.0534	
3/29/2016						<0.02
4/4/2016	<0.02					
4/5/2016		<0.02	0.00233 (J)	0.000194 (J)		
8/1/2016					0.055	<0.02
8/4/2016				<0.02		
8/9/2016		0.0016 (J)				
4/3/2017					0.0436	
4/6/2017						<0.02
4/11/2017	<0.02	<0.02	<0.02			
4/12/2017				<0.02		
10/3/2017					0.0393	<0.02
10/5/2017		0.0024 (J)				
10/6/2017	<0.02		<0.02	0.0024 (J)		
3/19/2018					<0.02	<0.02
3/22/2018		<0.02				
3/23/2018	<0.02		<0.02	<0.02		
9/17/2018					0.03	<0.02
9/19/2018		<0.02	<0.02	<0.02		

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-5	GWC-6
9/20/2018	<0.02					
3/20/2019					0.032	
3/21/2019						<0.02
3/22/2019	0.0048 (J)	<0.02	<0.02			
3/25/2019				0.0039 (J)		
9/16/2019					0.035	0.0058 (J)
9/17/2019		0.0057 (X)	0.0048 (X)	0.0066 (J)		
9/18/2019	0.0091 (X)					
3/12/2020						0.0042 (J)
3/13/2020		0.0028 (J)	0.0026 (J)	0.0057 (J)		
3/16/2020					0.047	
3/17/2020	0.0057 (J)					
9/16/2020					0.033	<0.02
9/21/2020		<0.02	<0.02	0.0036 (J)		
9/22/2020	<0.02					
3/17/2021					0.027	<0.02
3/18/2021		<0.02	<0.02	<0.02		
3/19/2021	<0.02					

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
8/23/2007					0.011	0.066
11/1/2007					0.012	
11/2/2007						0.055
11/18/2007						0.13
11/19/2007					0.026 (J)	
1/15/2008					0.075 (o)	
1/31/2008						0.13
3/6/2008					0.051 (o)	
3/11/2008						0.07
5/13/2008					0.0084	
5/14/2008						0.12
12/5/2008						0.088
12/12/2008					0.077 (o)	
4/15/2009						0.068
4/16/2009					0.064 (o)	
10/8/2009						0.075
10/13/2009					0.013	
4/21/2010					0.0035	
4/28/2010						0.071
9/29/2010					0.0085	
10/6/2010						0.074
4/13/2011					0.0028	
4/21/2011						0.047
10/5/2011					0.0038	
10/13/2011						0.073
10/18/2011			0.0032			
4/4/2012					0.0126	
4/30/2012			<0.02			
5/1/2012						0.0652
10/3/2012			0.0034			
10/8/2012					0.0043	
10/9/2012						0.061
4/8/2013			0.0039		0.0068	
4/11/2013						0.053
10/9/2013			0.0078		0.0082	
10/16/2013						0.047
4/9/2014					0.0043	
4/10/2014			0.0064			
4/23/2014						0.041
9/30/2014					0.0029	
10/2/2014			0.0009 (JV)			
10/4/2014						0.044 (V)
3/31/2015						0.12
4/2/2015					0.0056	
4/3/2015			<0.02			
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	<0.02		
10/9/2015	0.0019 (J)					
10/10/2015					0.0065 (D)	
10/12/2015						0.053

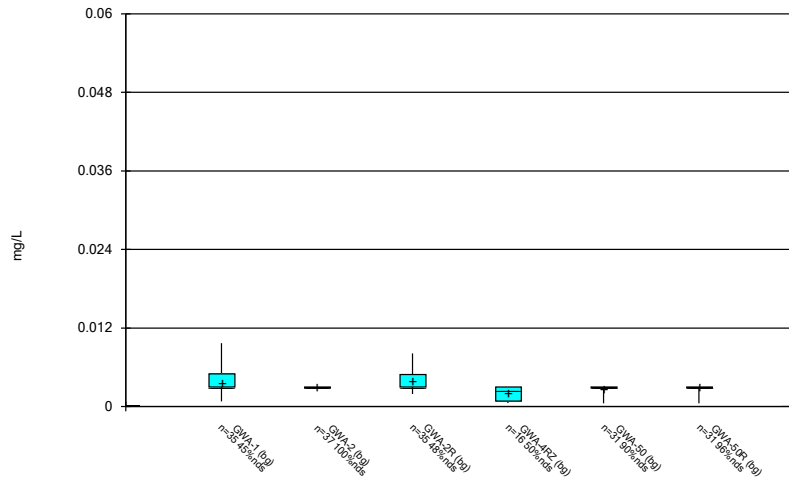
Time Series

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-7Z	GWC-8RR	GWC-8Z	GWC-9	GWA-3A (bg)
3/22/2016				0.00302 (J)		
3/23/2016						0.0532
3/29/2016	0.00786 (J)					
3/30/2016			0.00308 (J)		0.00388 (J)	
7/29/2016						0.0446
8/1/2016	<0.02					
8/2/2016		<0.02	<0.02	<0.02		
8/5/2016					<0.02	
3/30/2017						0.0479
4/6/2017	<0.02	<0.02	<0.02		<0.02	
4/7/2017				<0.02		
10/3/2017	0.0014 (J)	<0.02		0.0022 (J)	0.0023 (J)	
10/4/2017			<0.02			0.0429
3/19/2018						<0.02
3/20/2018	<0.02	<0.02		<0.02	<0.02	
3/21/2018			<0.02			
9/17/2018	<0.02					0.04
9/18/2018		<0.02	<0.02	<0.02	<0.02 (D)	
3/20/2019						0.028
3/21/2019	<0.02	<0.02			0.0024 (J)	
3/27/2019			<0.02			
5/6/2019				0.0024 (J)		
9/13/2019		0.0053 (J)				0.036
9/16/2019	0.0057 (J)		0.00525 (JD)	0.0065 (J)	0.0062 (J)	
3/11/2020						0.031
3/12/2020	0.0032 (J)	0.0031 (J)	0.002 (J)		0.0045 (J)	
3/16/2020				0.0073 (J)		
9/16/2020	<0.02	<0.02				
9/17/2020			<0.02	<0.02	<0.02	
3/17/2021	<0.02	<0.02	<0.02			
3/18/2021				<0.02	<0.02	
3/29/2021						<0.02

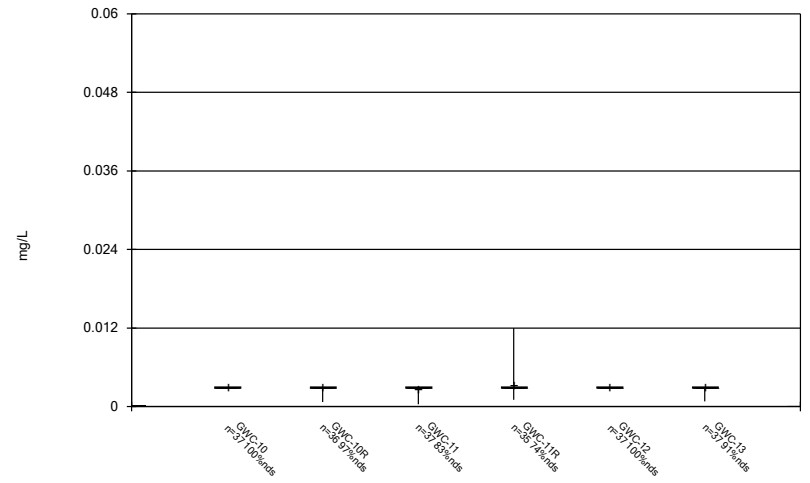
FIGURE B.

Box & Whiskers Plot



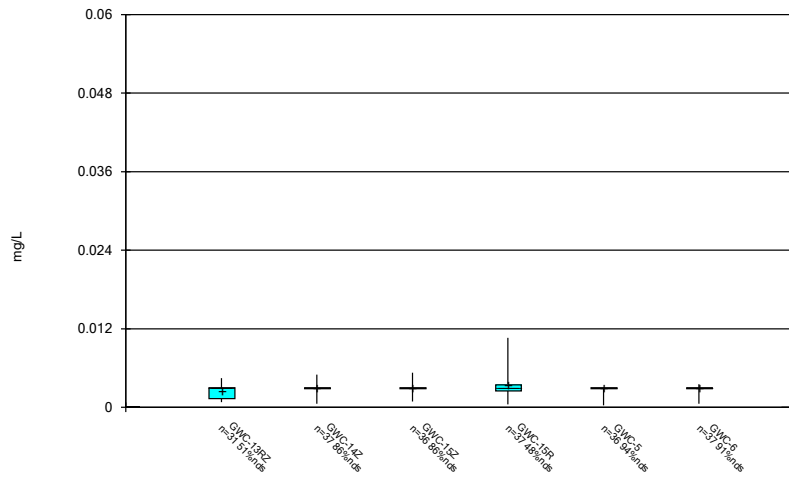
Constituent: Antimony Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



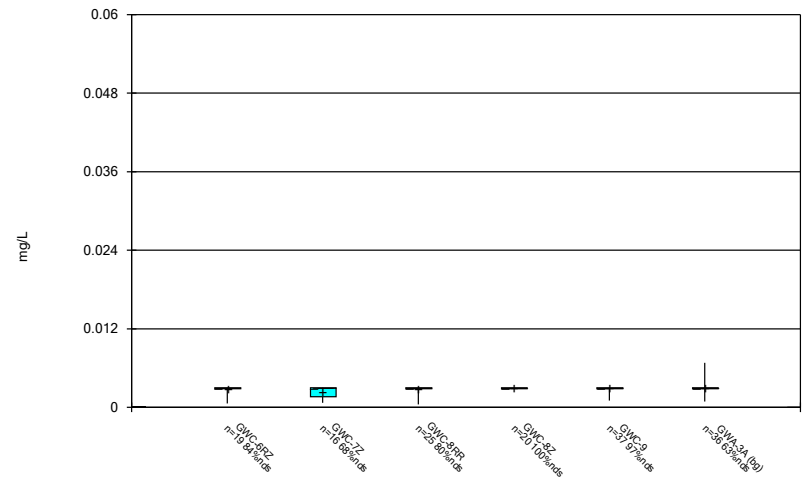
Constituent: Antimony Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



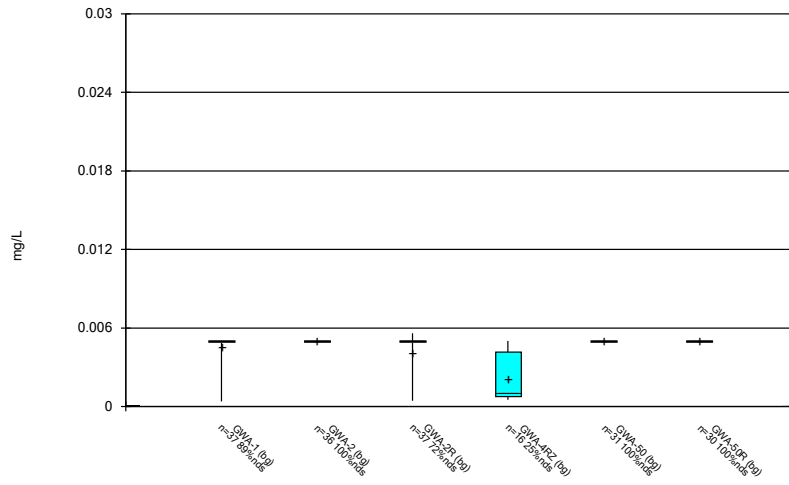
Constituent: Antimony Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



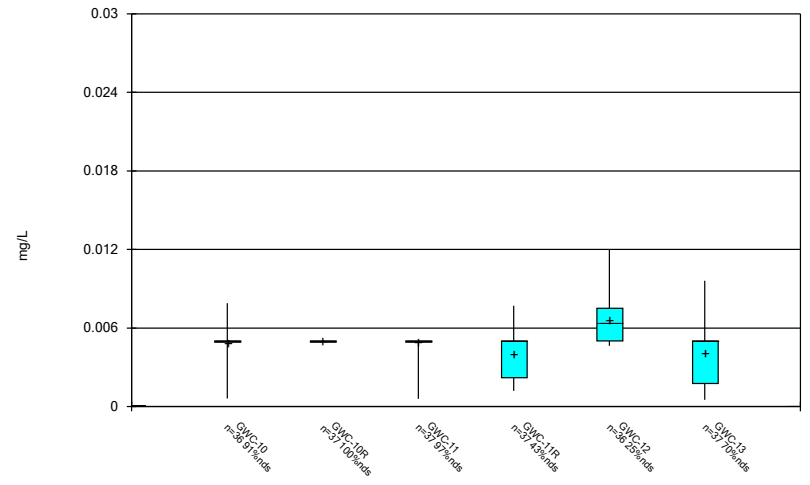
Constituent: Antimony Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



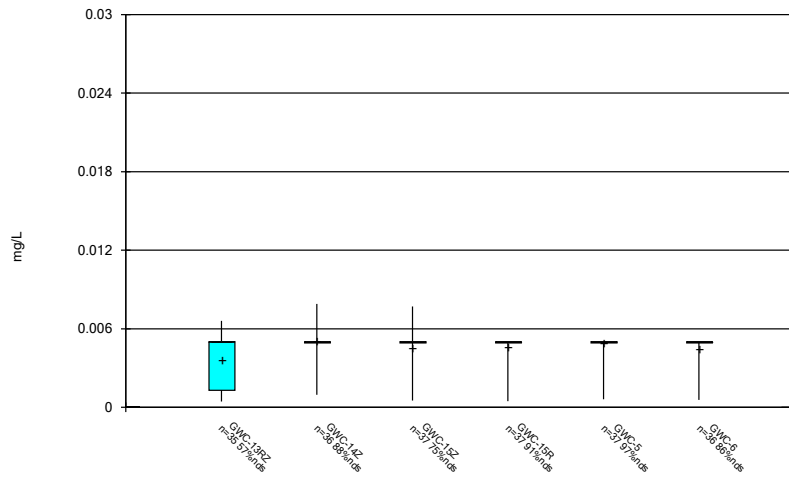
Constituent: Arsenic Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



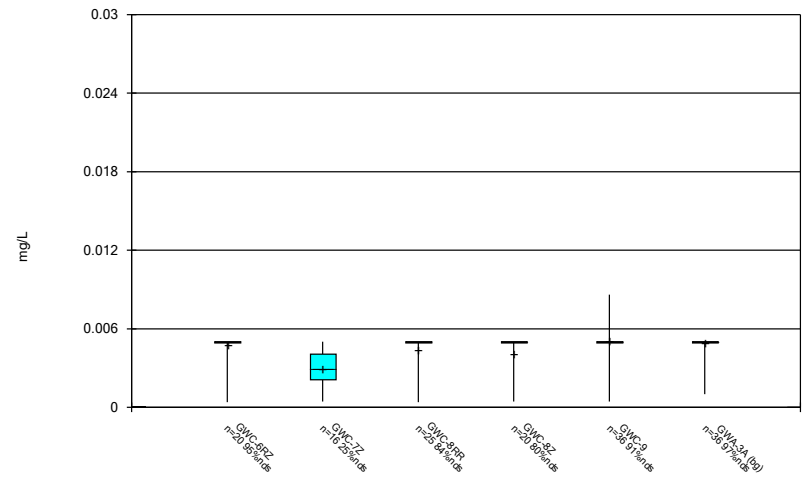
Constituent: Arsenic Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



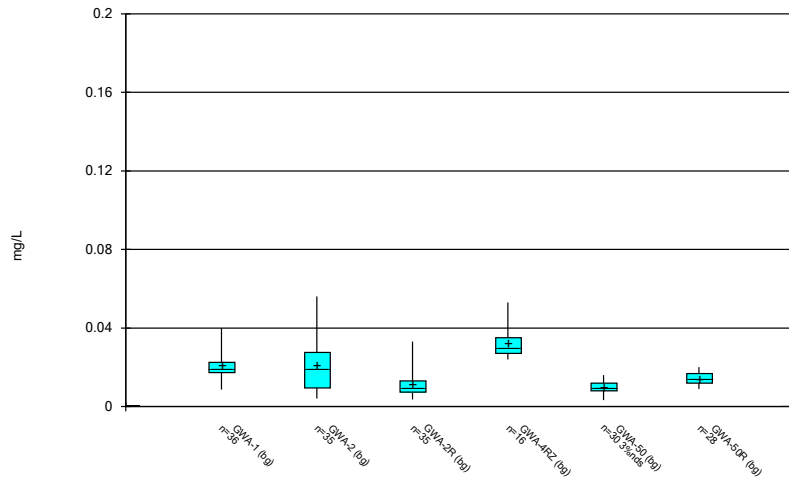
Constituent: Arsenic Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



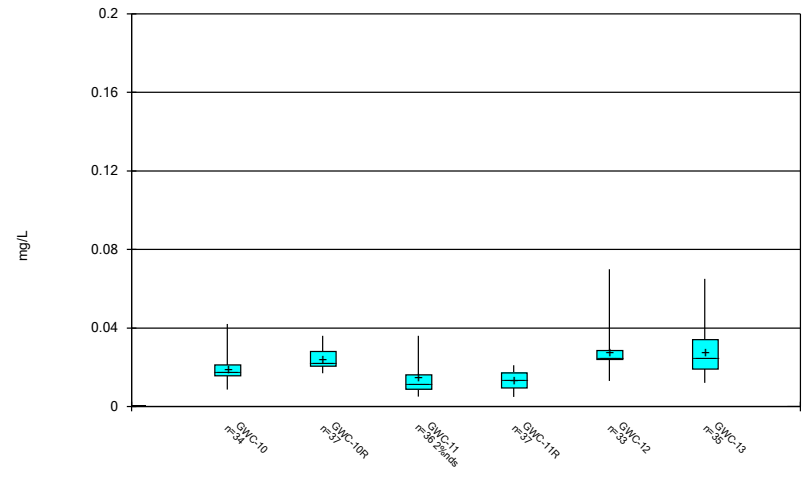
Constituent: Arsenic Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



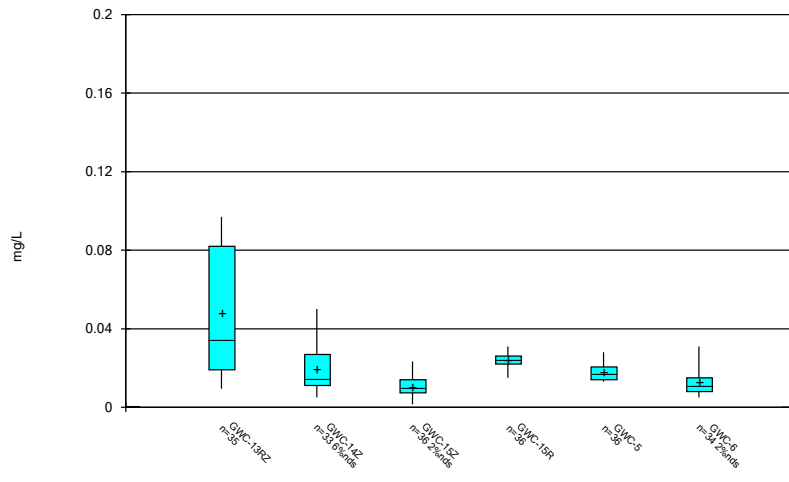
Constituent: Barium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



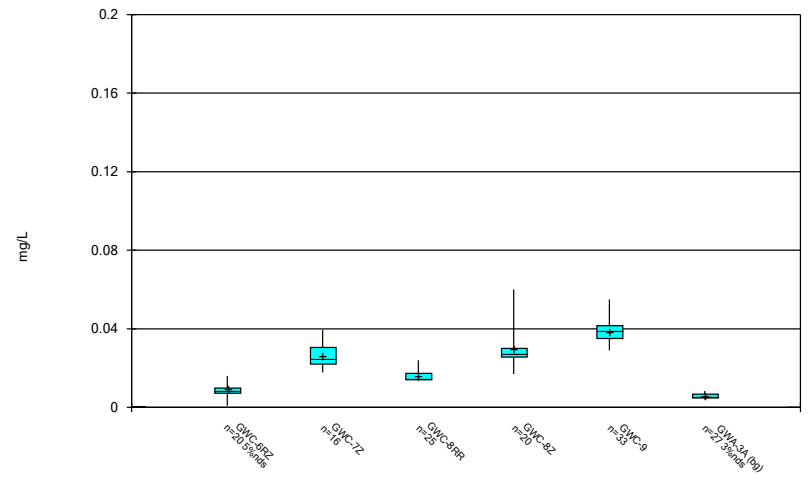
Constituent: Barium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



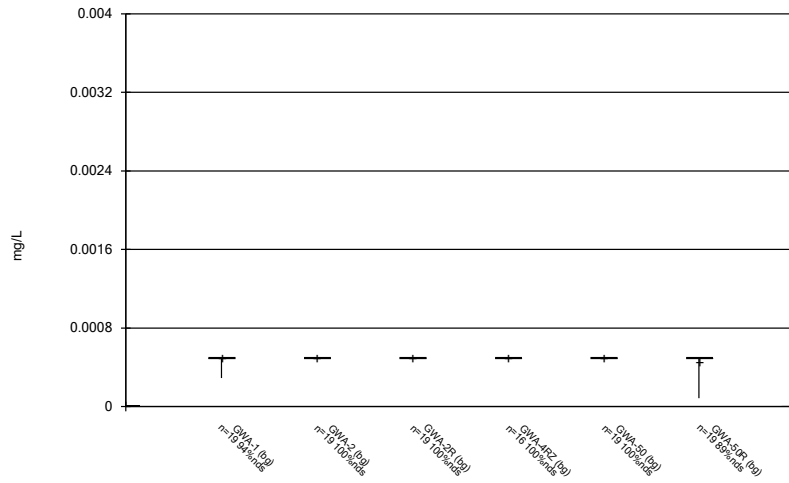
Constituent: Barium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



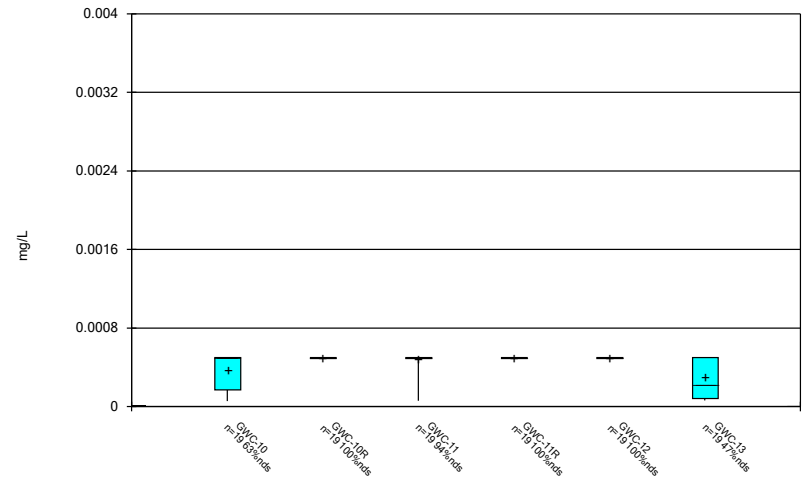
Constituent: Barium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



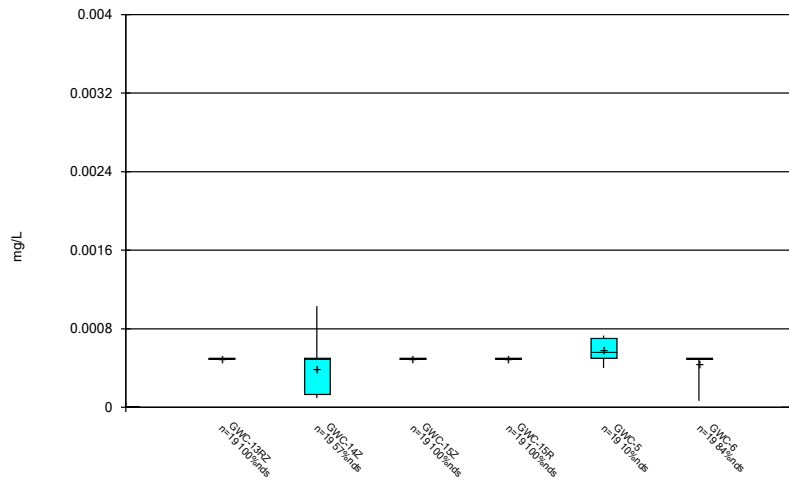
Constituent: Beryllium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



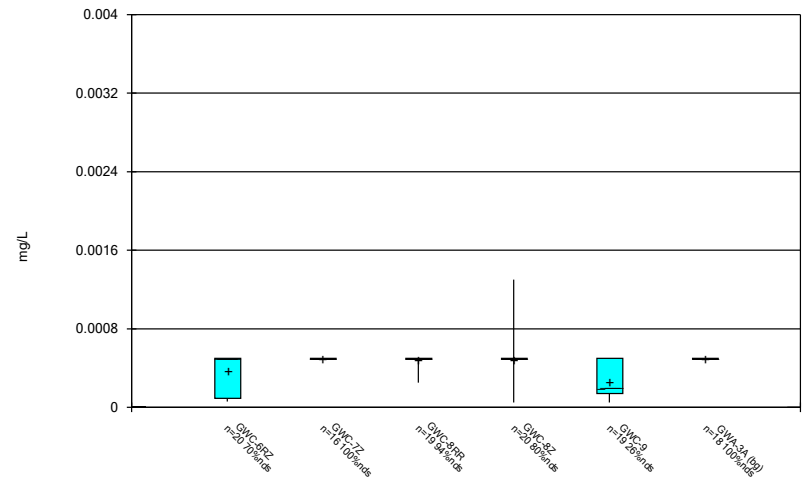
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



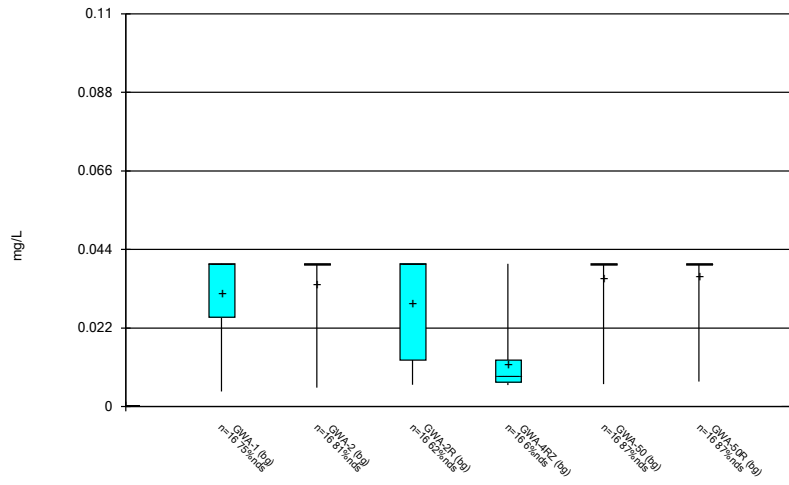
Constituent: Beryllium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



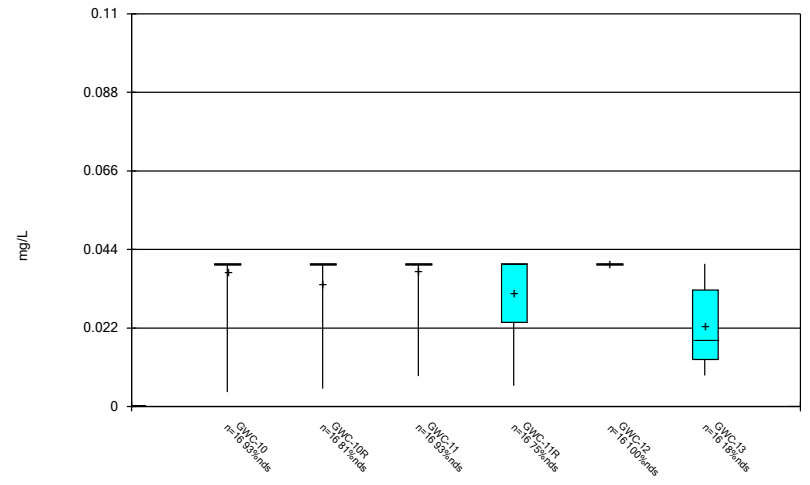
Constituent: Beryllium Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



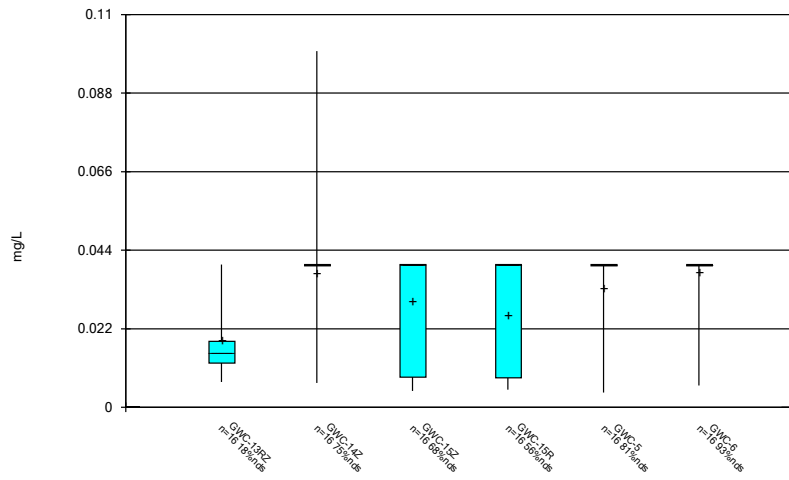
Constituent: Boron Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



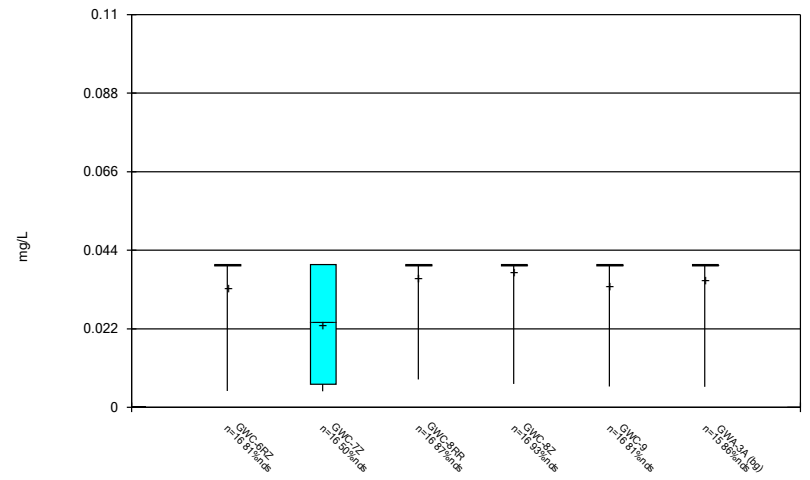
Constituent: Boron Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



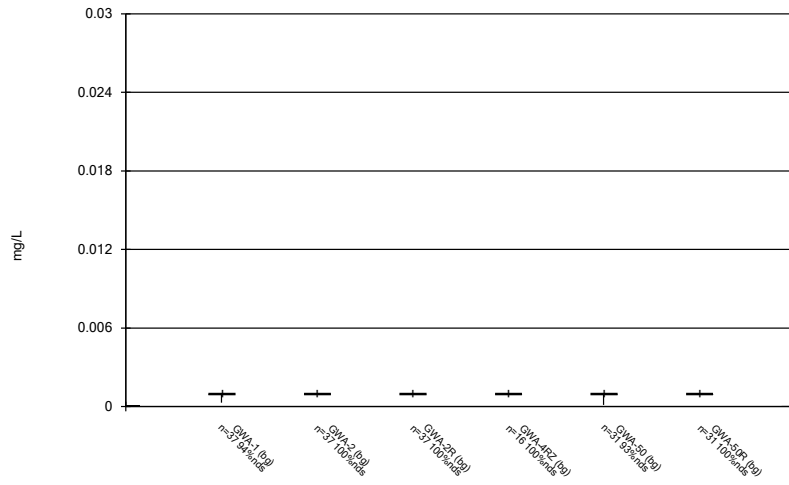
Constituent: Boron Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



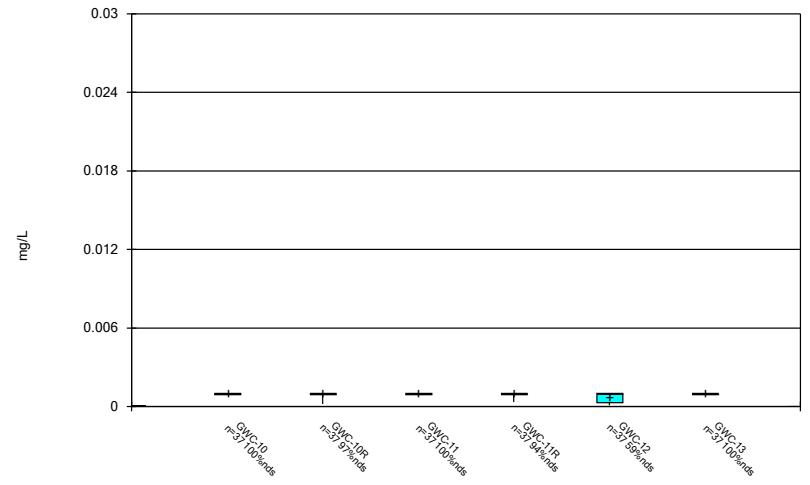
Constituent: Boron Analysis Run 4/30/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



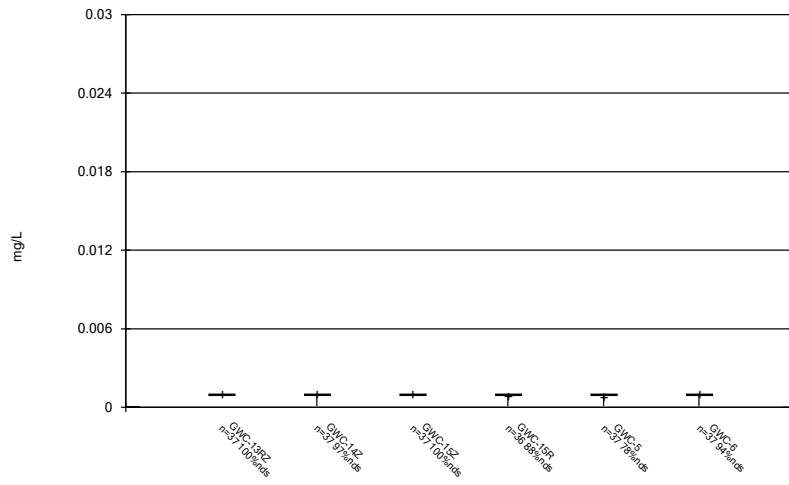
Constituent: Cadmium Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



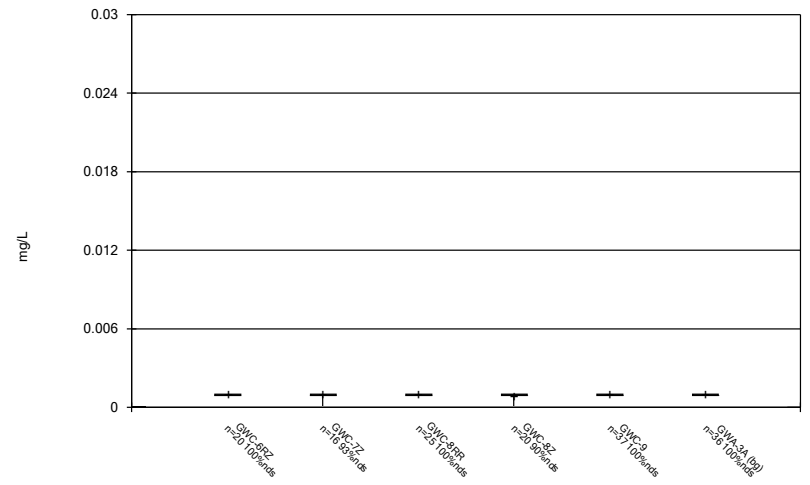
Constituent: Cadmium Analysis Run 4/30/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



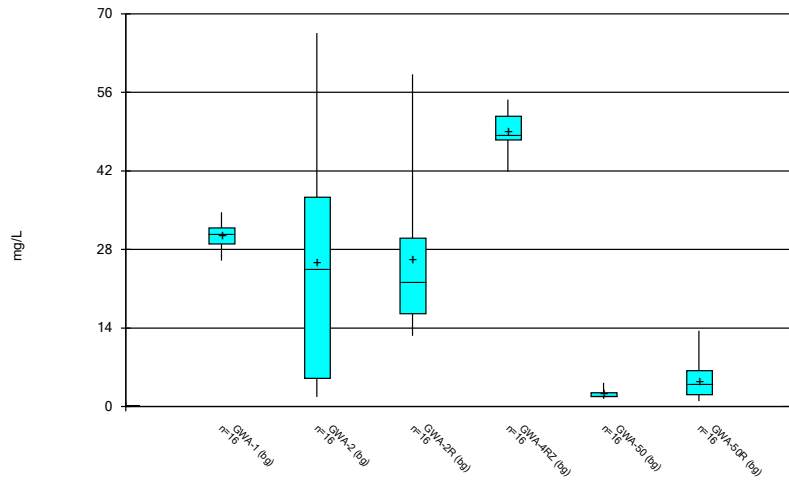
Constituent: Cadmium Analysis Run 4/30/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



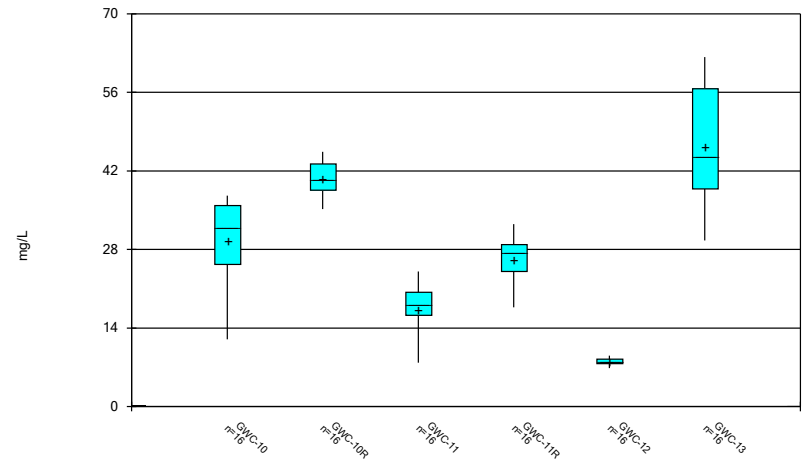
Constituent: Cadmium Analysis Run 4/30/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



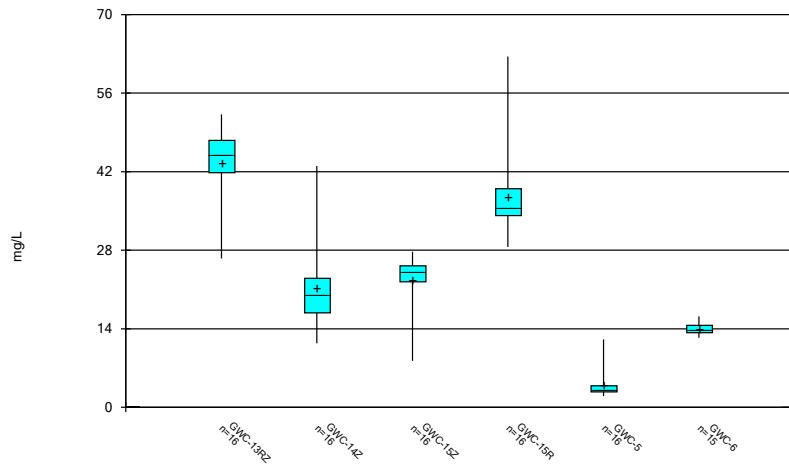
Constituent: Calcium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



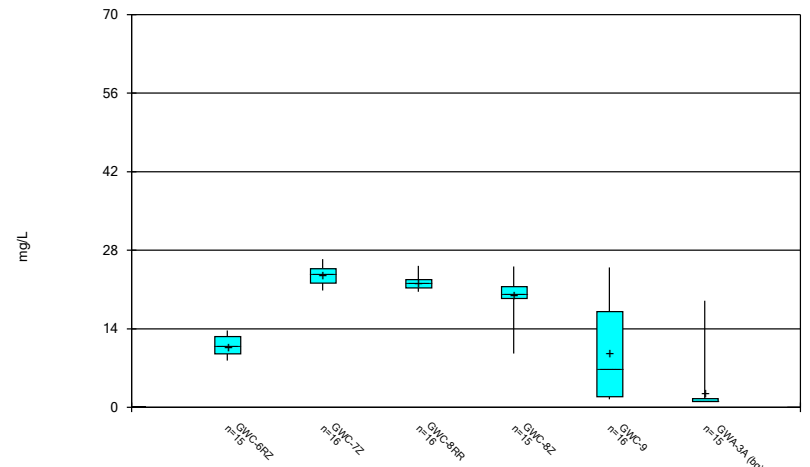
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



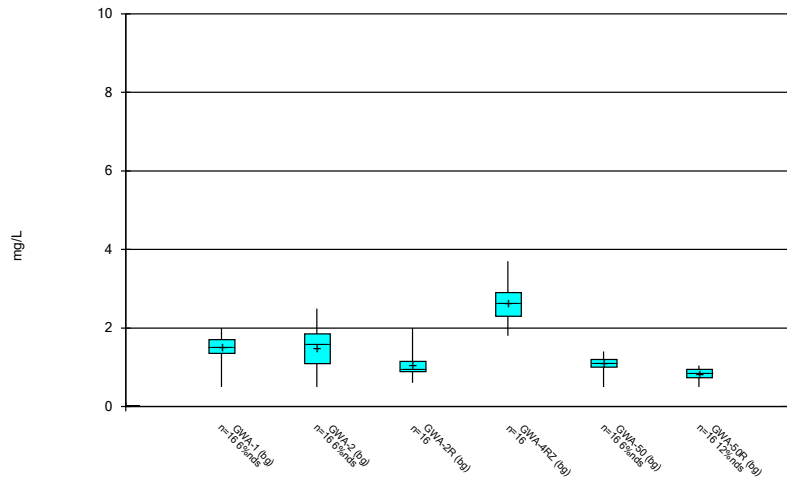
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



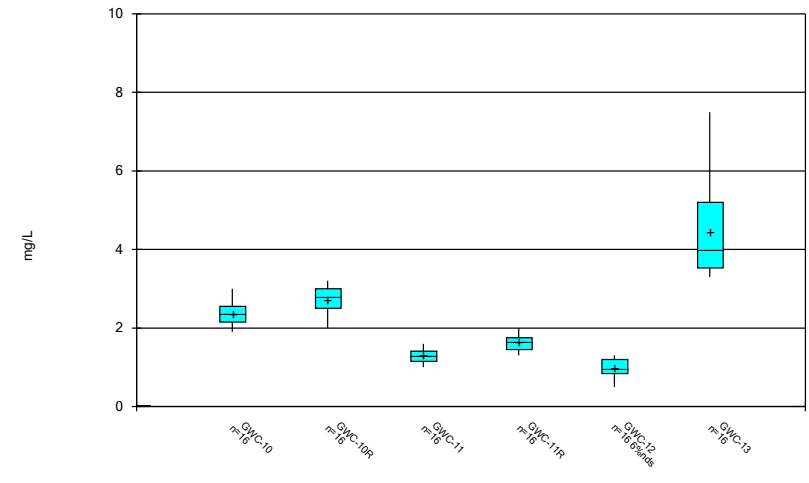
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



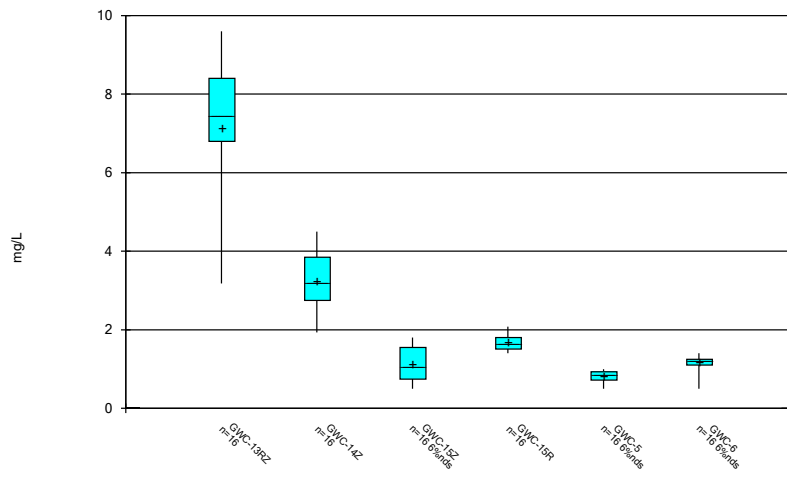
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



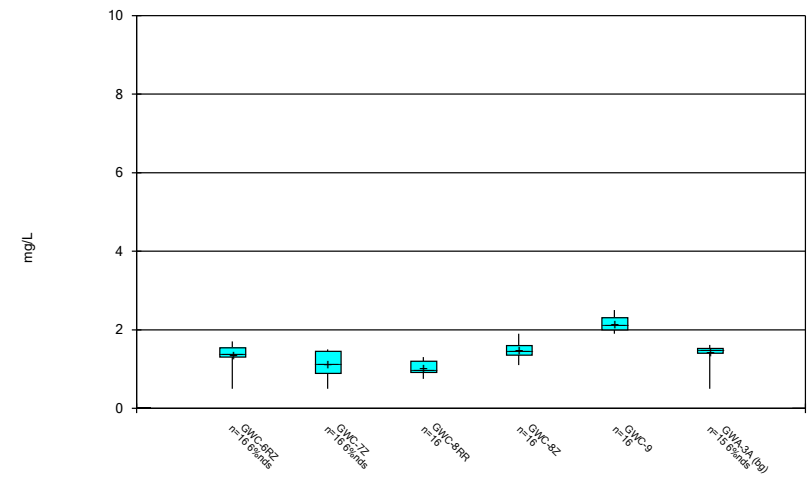
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



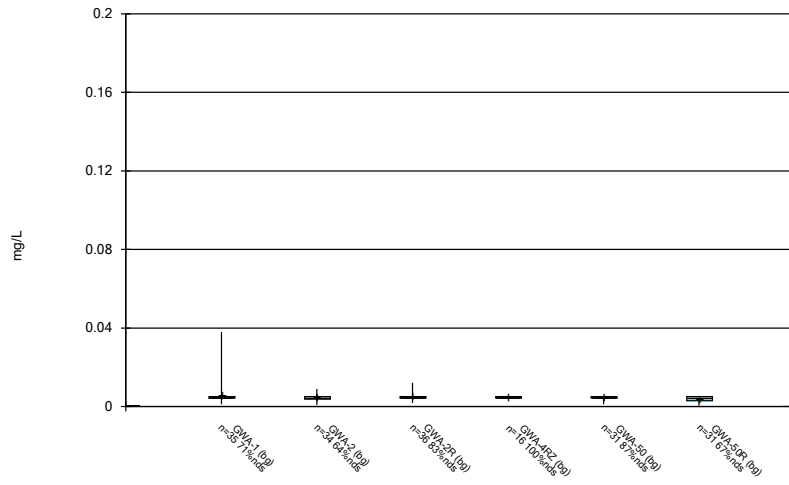
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



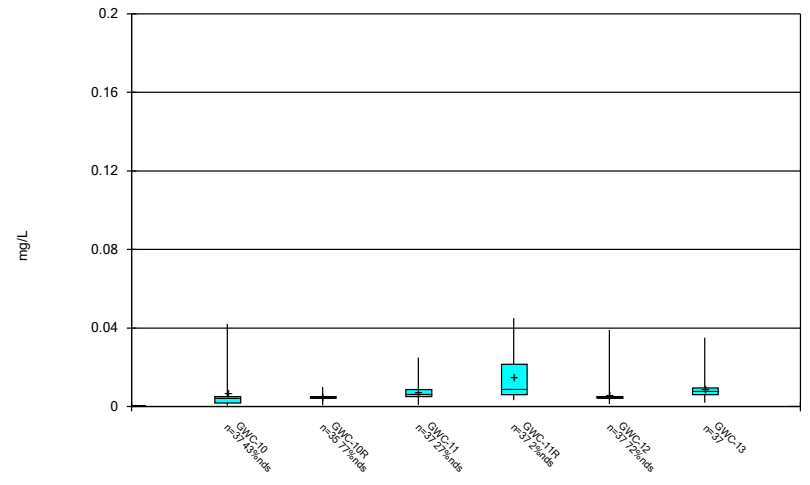
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



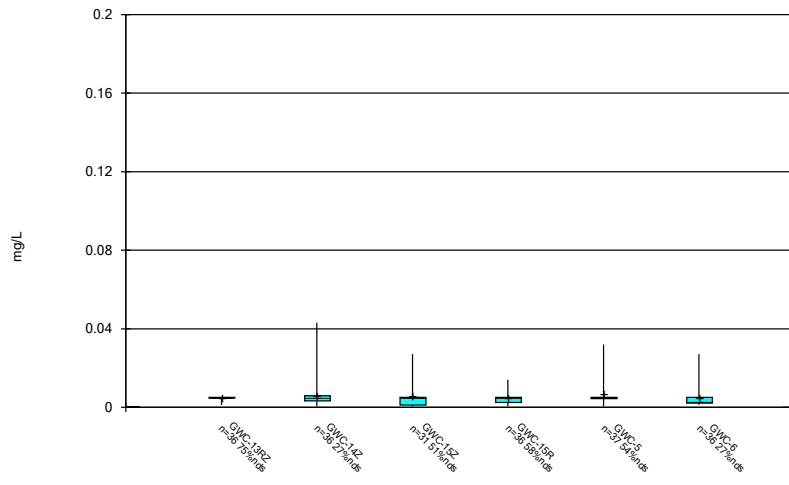
Constituent: Chromium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



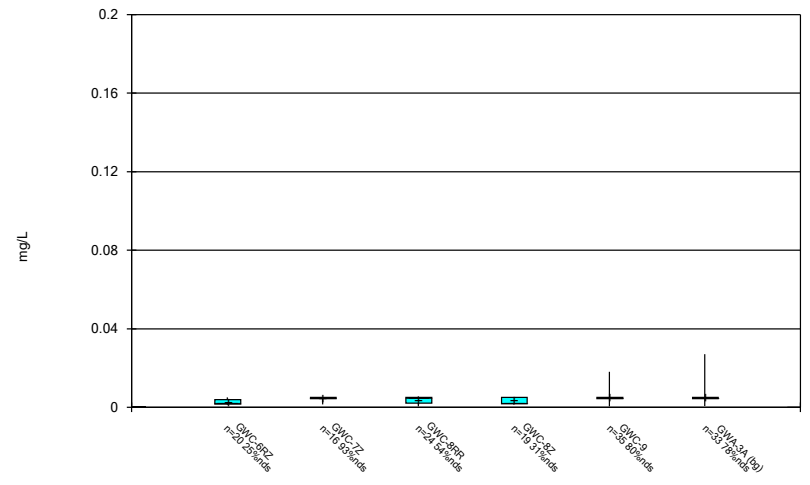
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



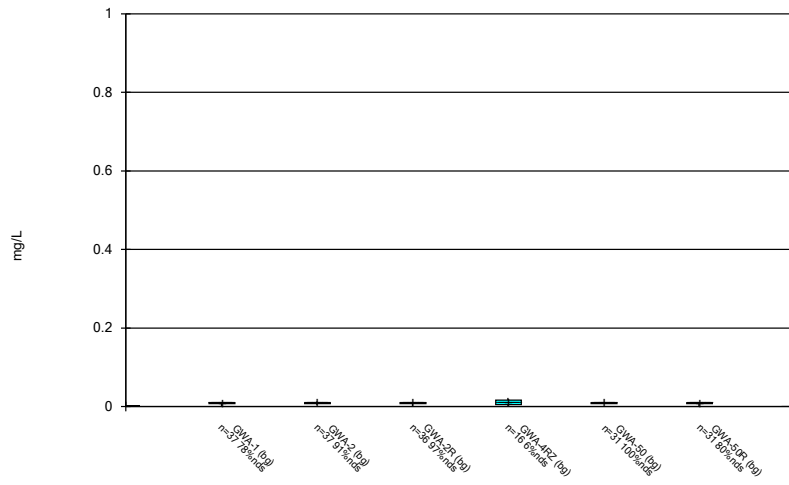
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Box & Whiskers Plot



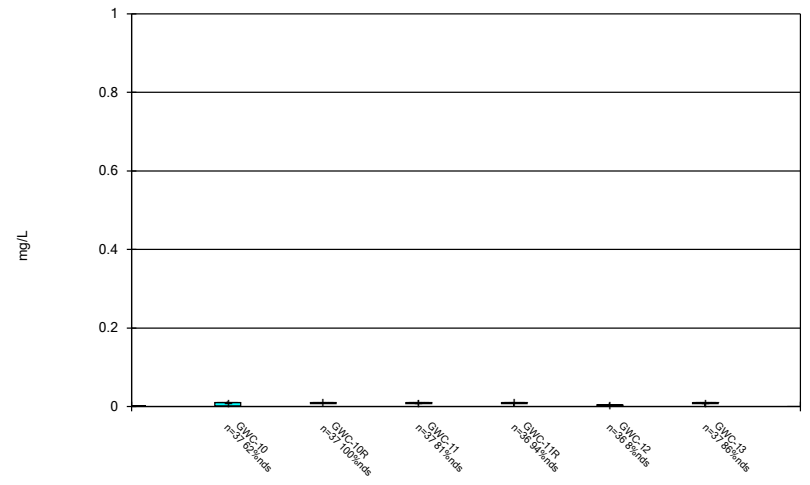
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



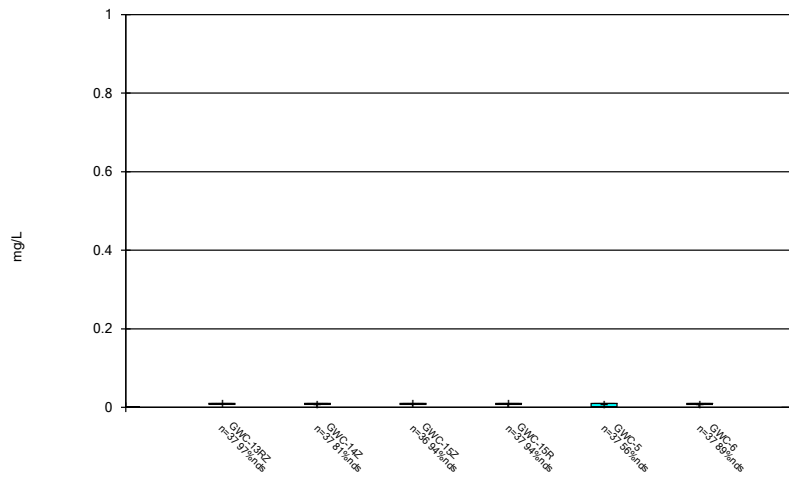
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



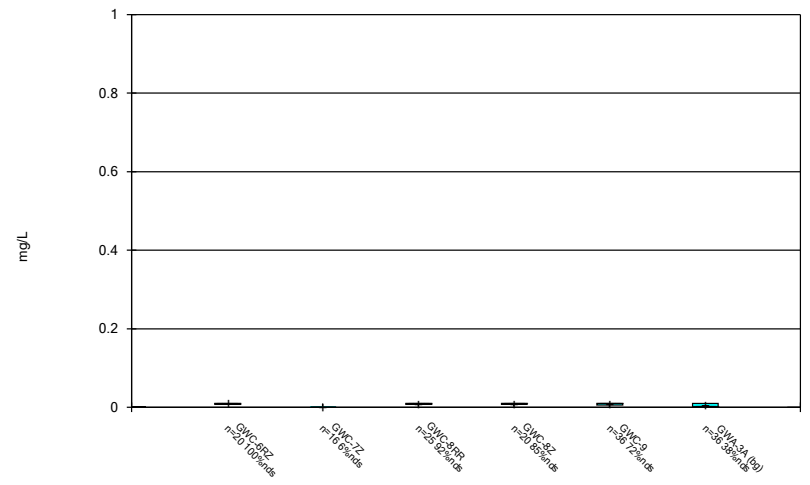
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



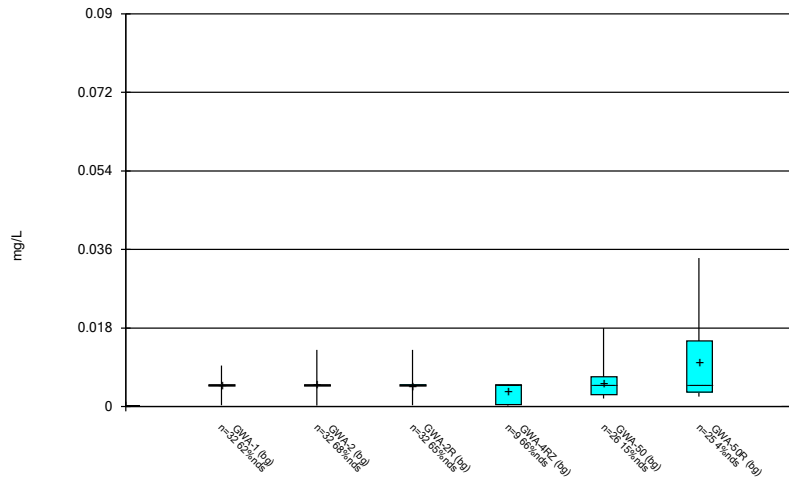
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



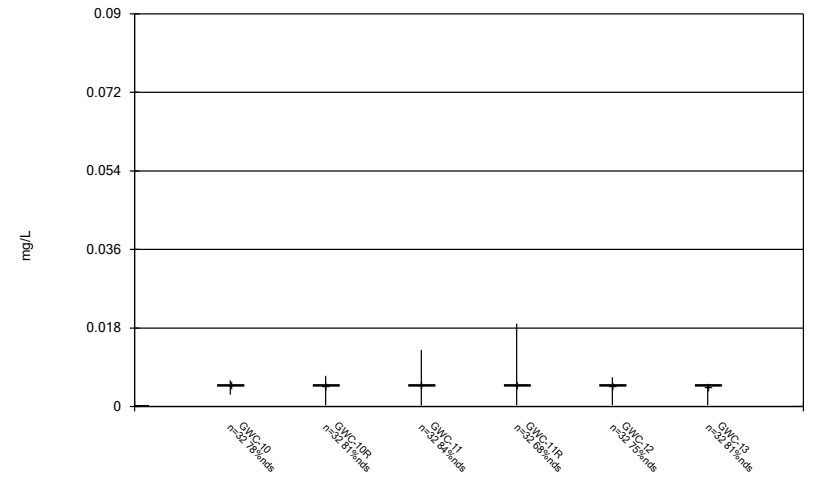
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



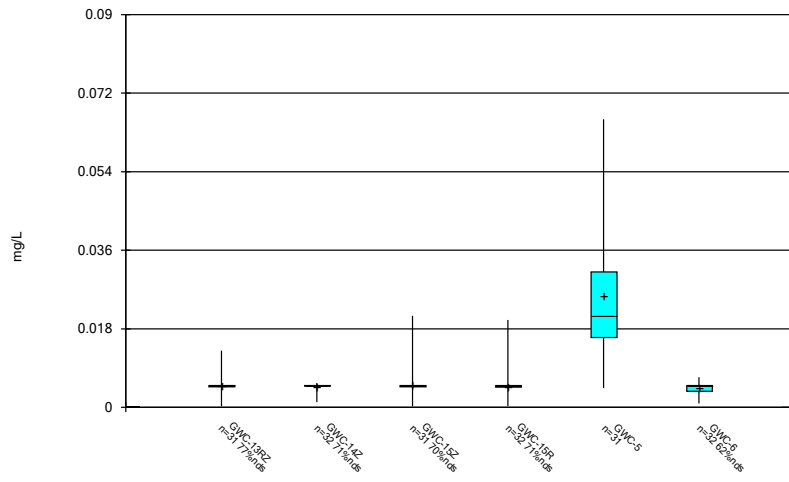
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



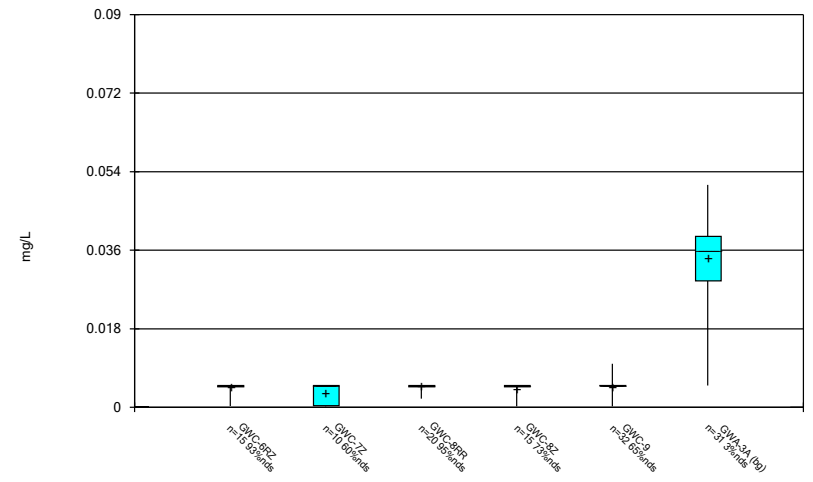
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



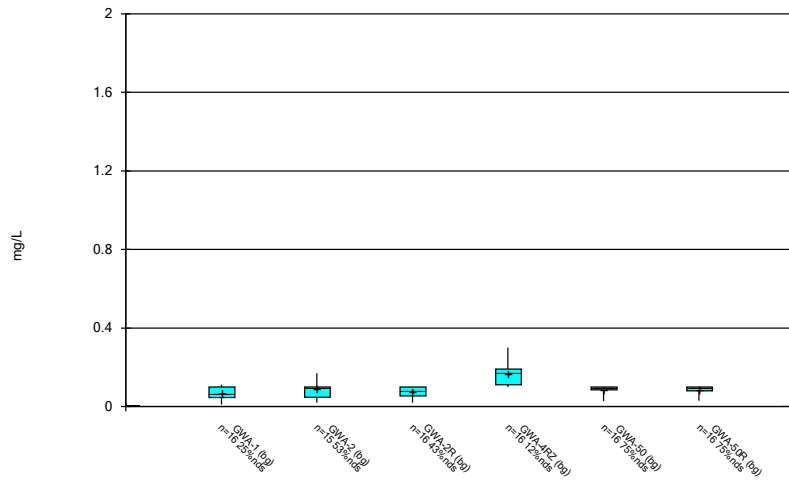
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



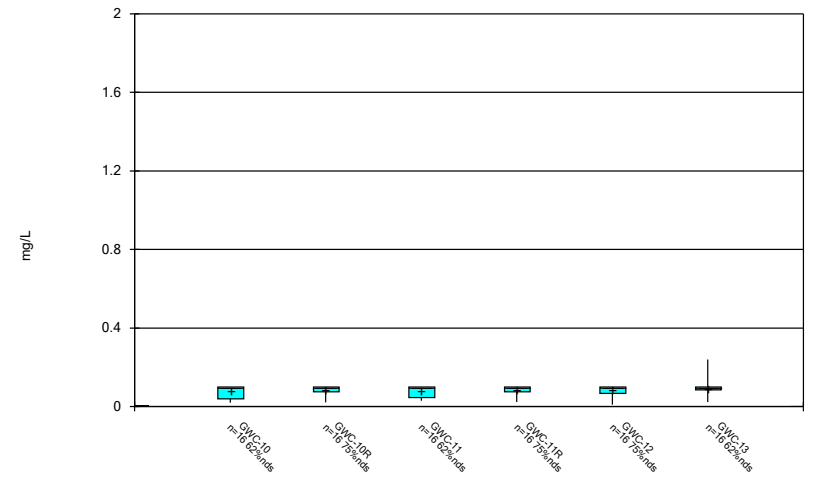
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



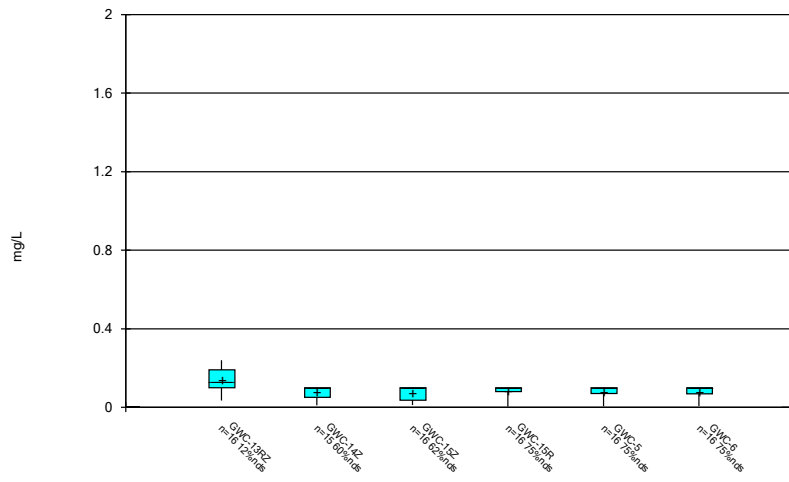
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



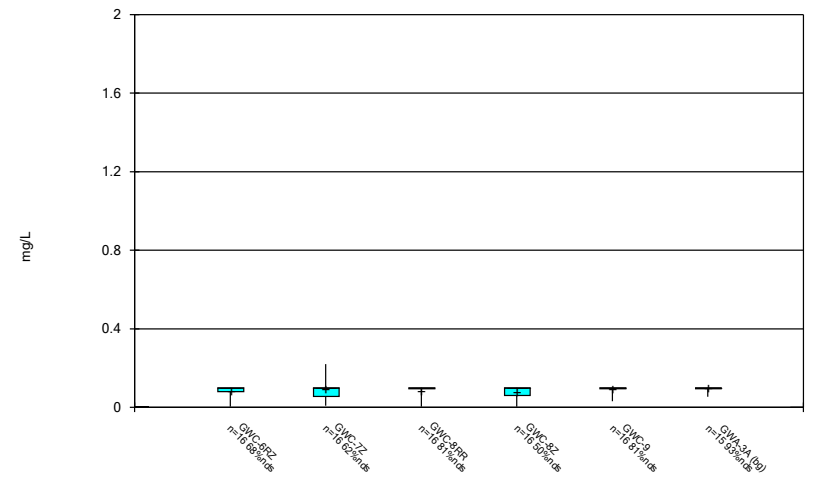
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



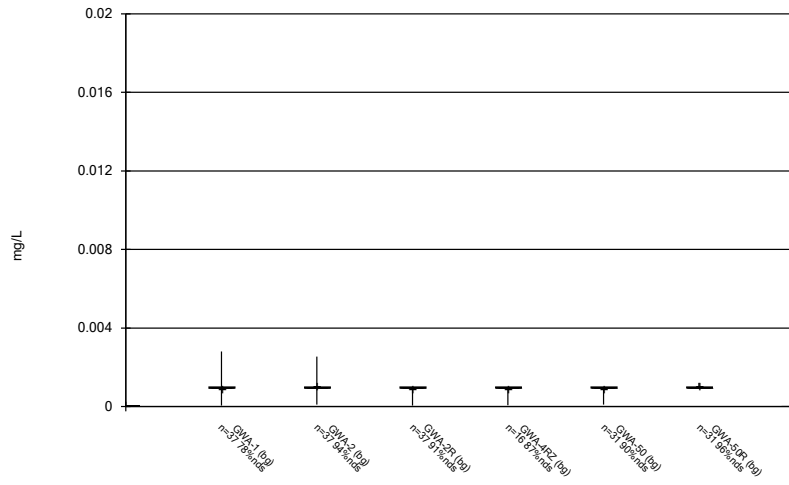
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Box & Whiskers Plot



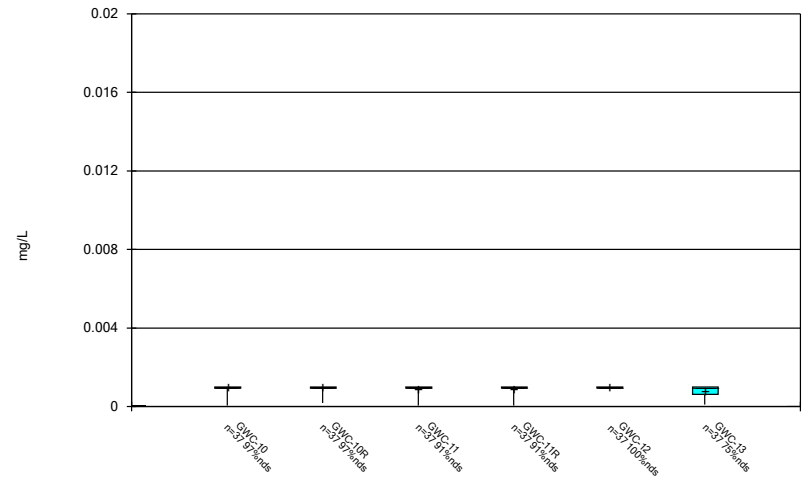
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Box & Whiskers Plot



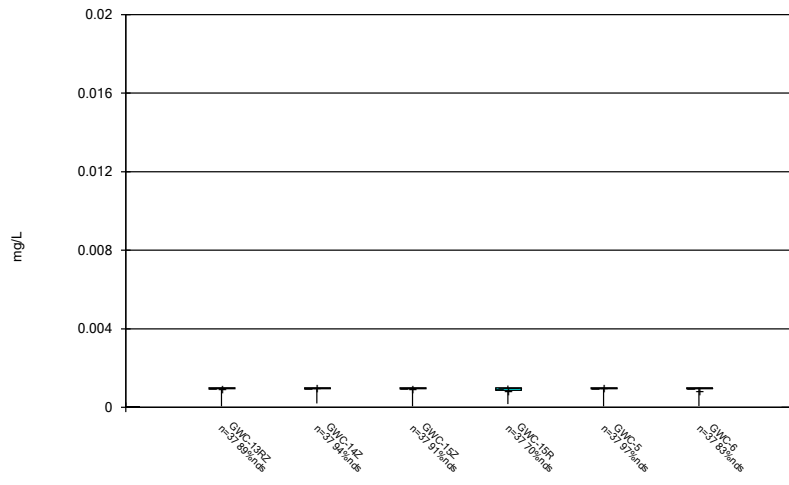
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



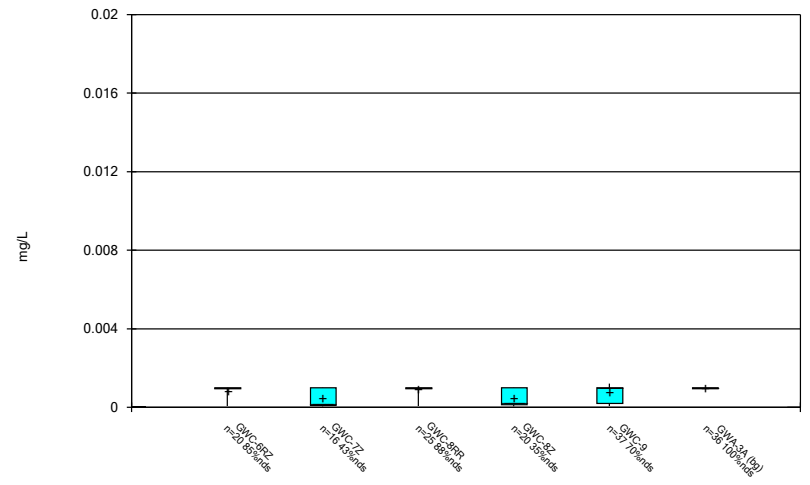
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



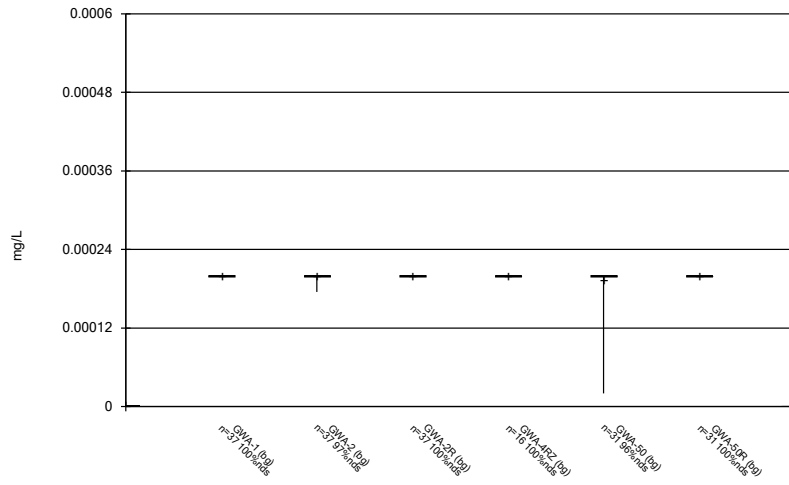
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



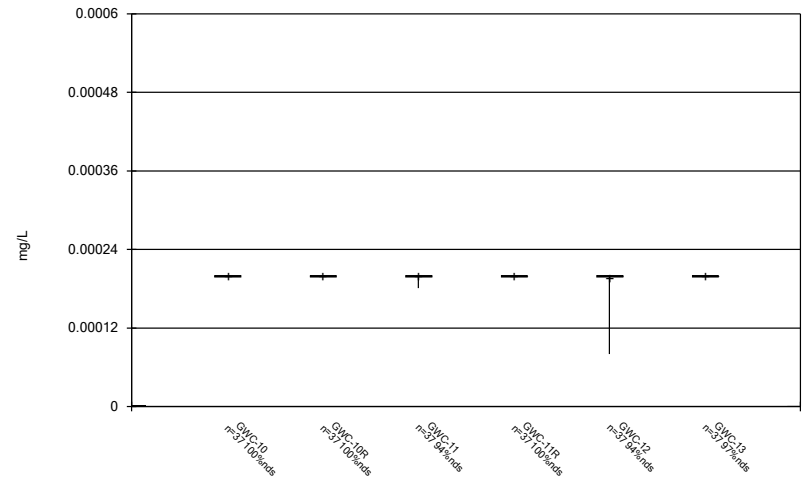
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



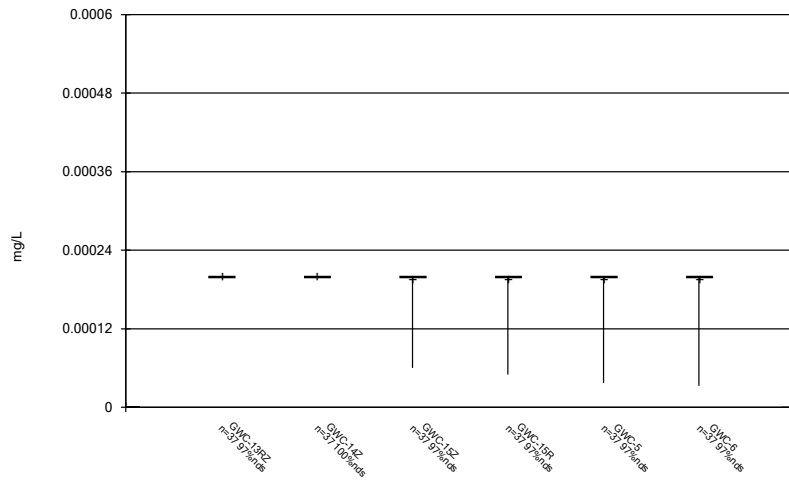
Constituent: Mercury Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



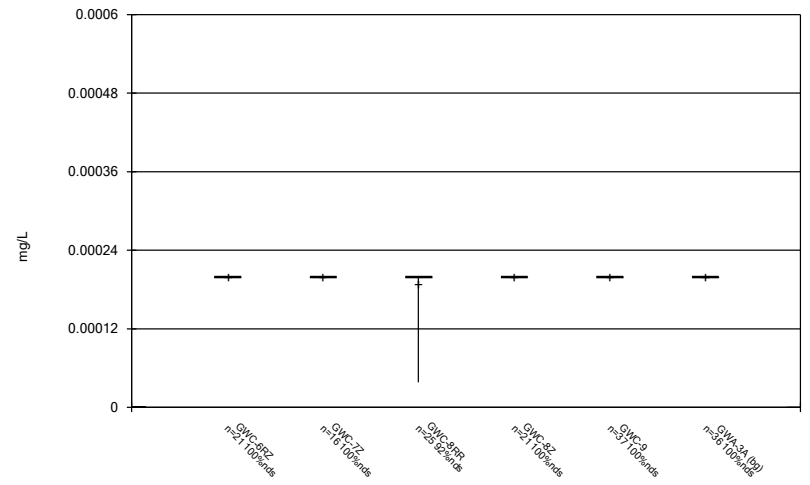
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



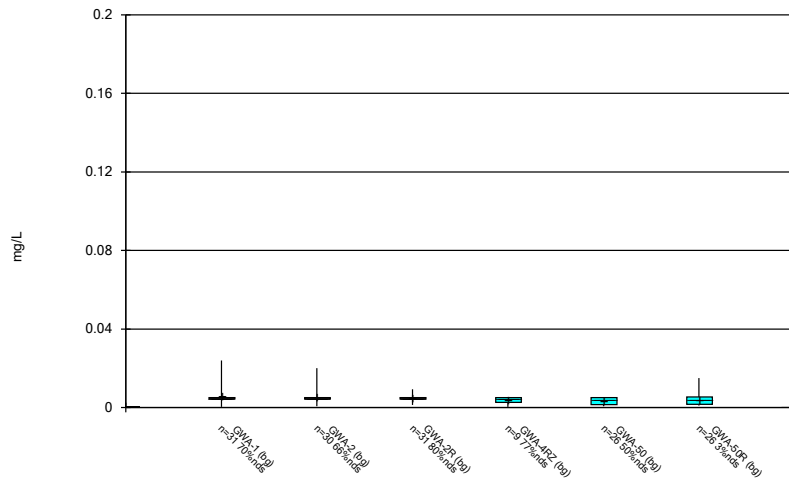
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



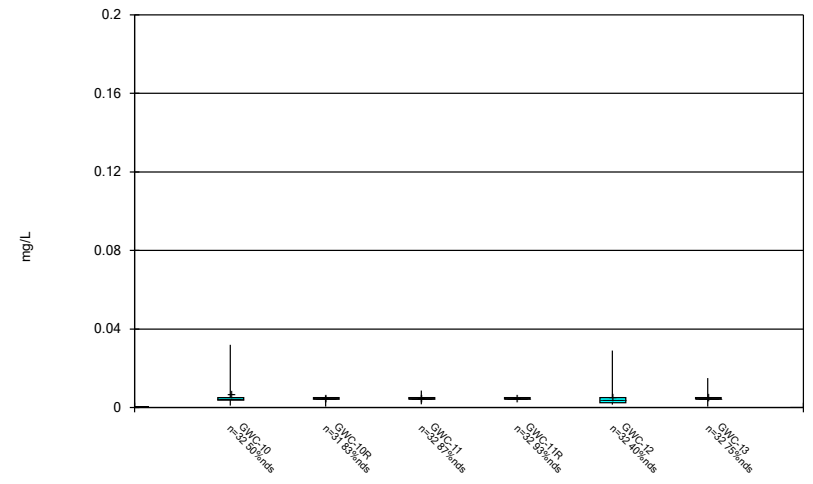
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



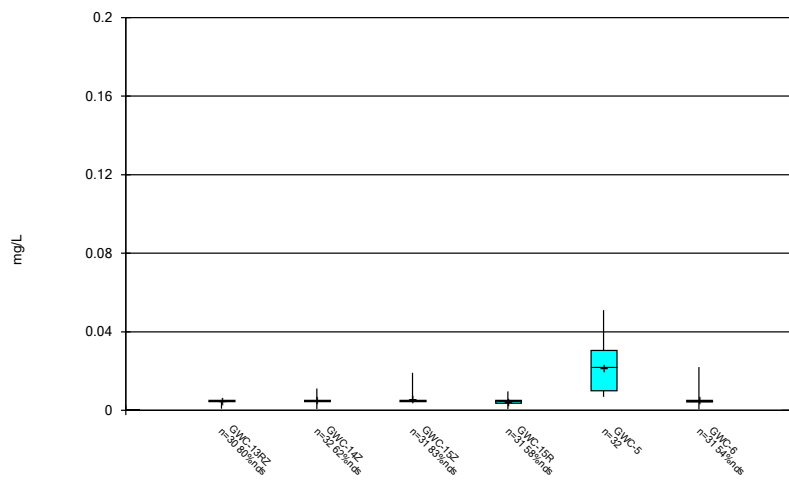
Constituent: Nickel Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



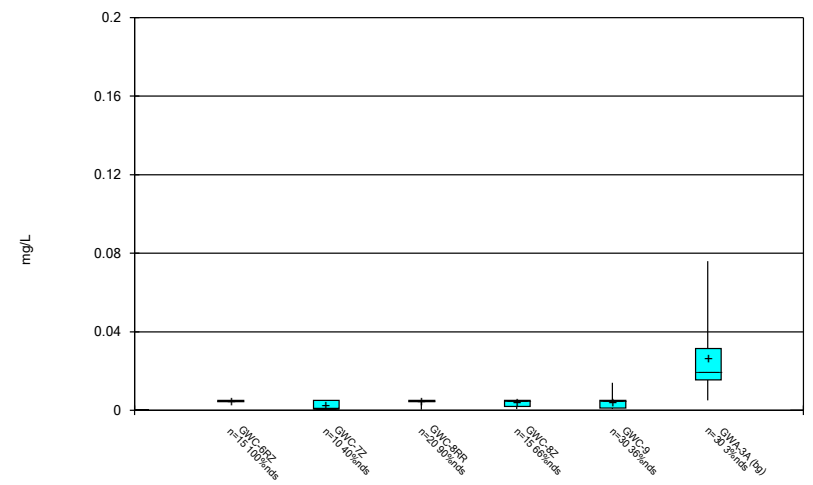
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



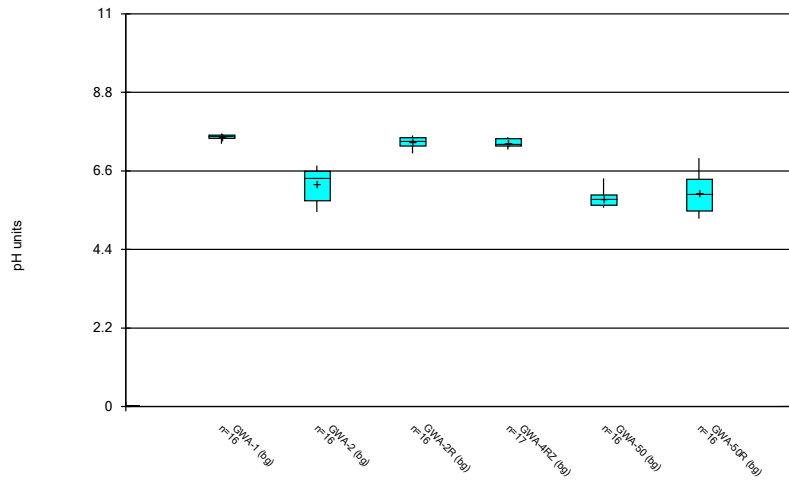
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



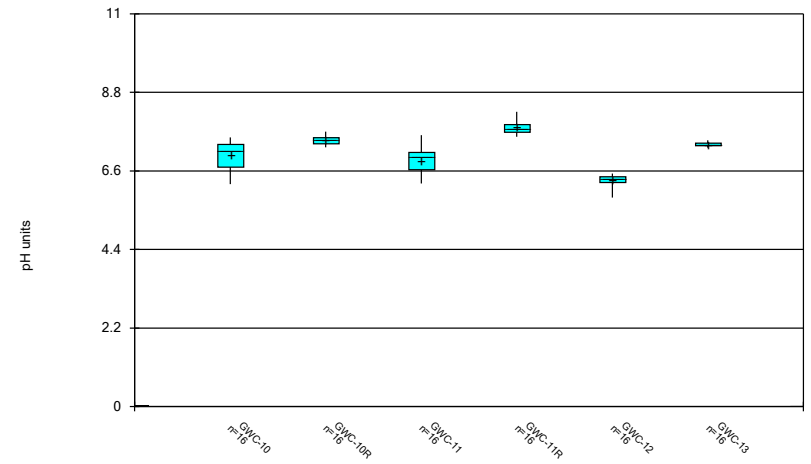
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



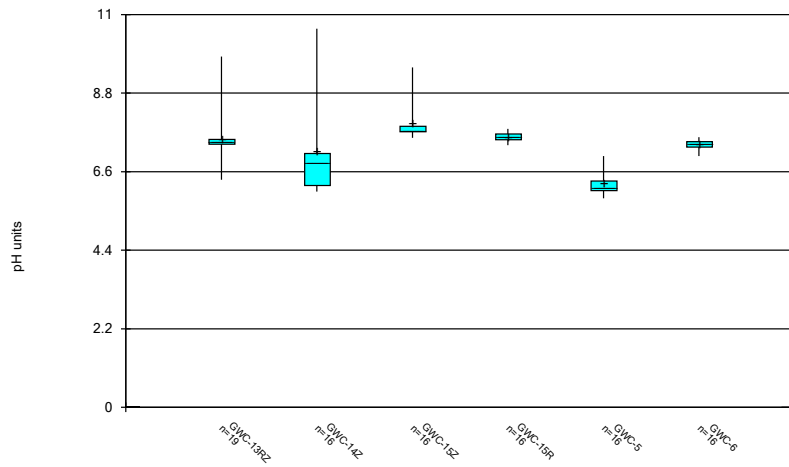
Constituent: pH Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



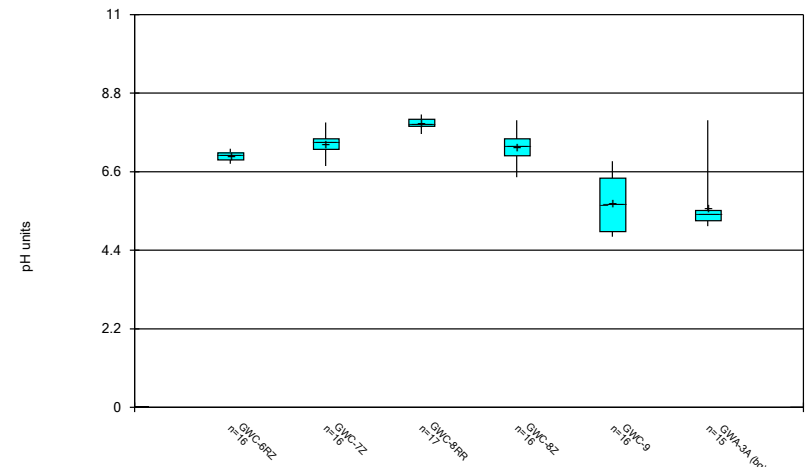
Constituent: pH Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



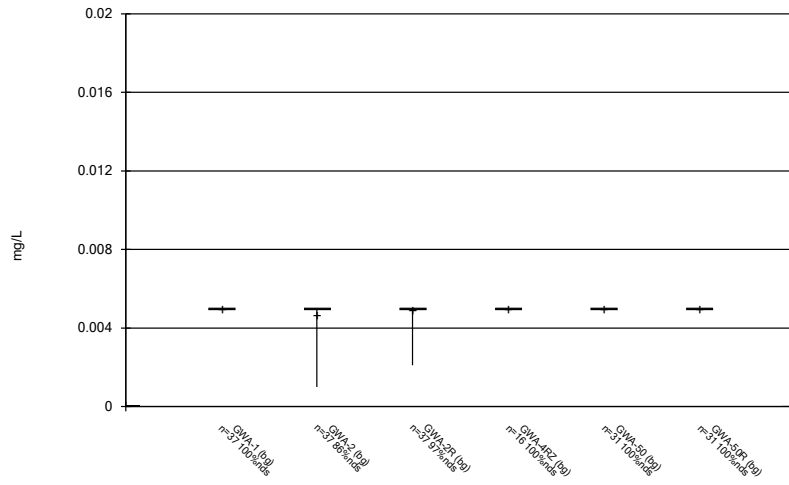
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



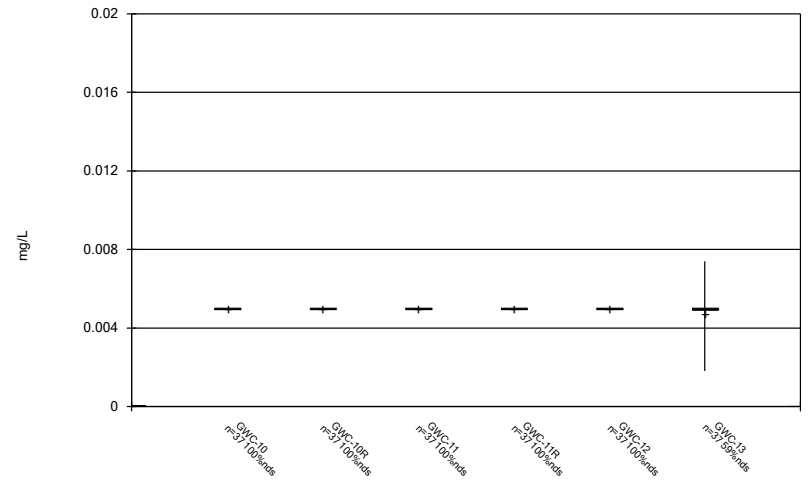
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



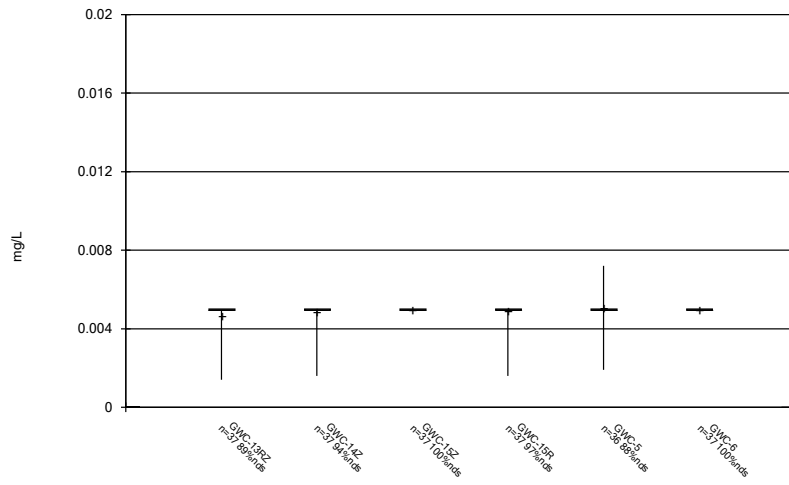
Constituent: Selenium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



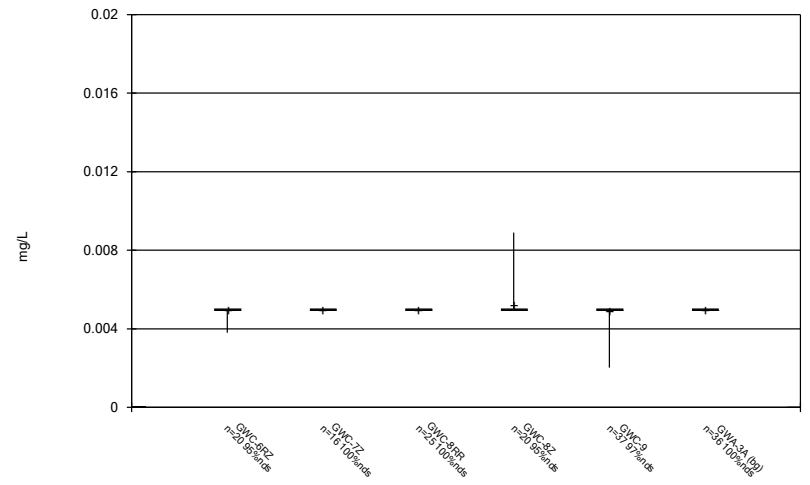
Constituent: Selenium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



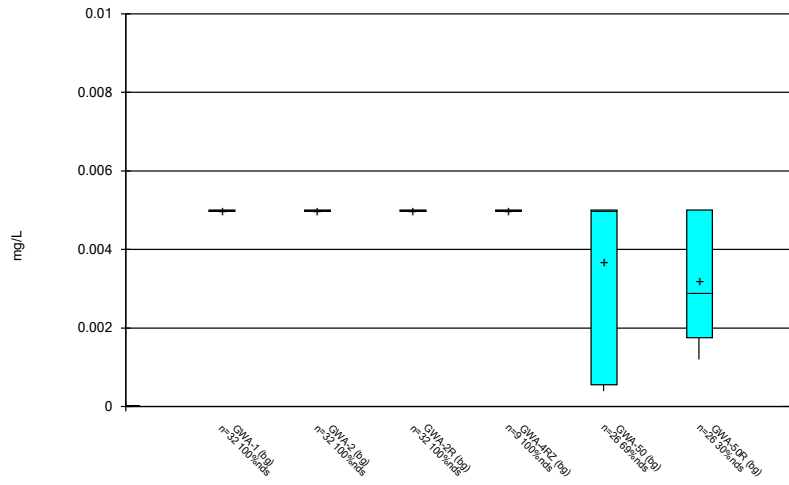
Constituent: Selenium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



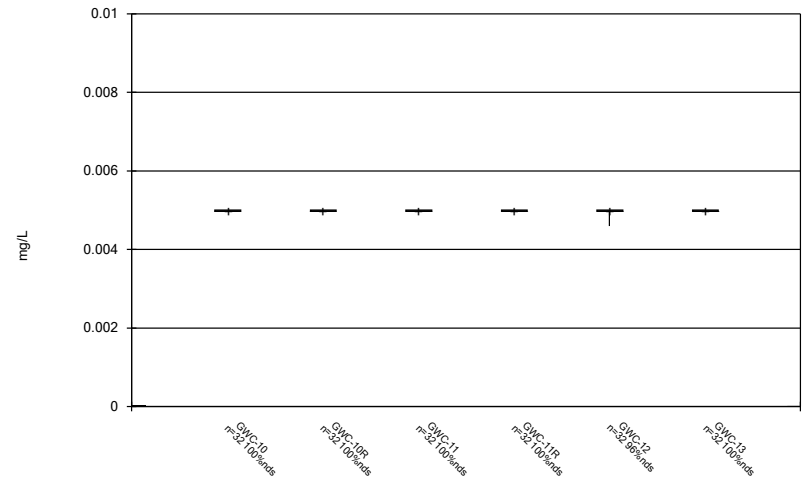
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



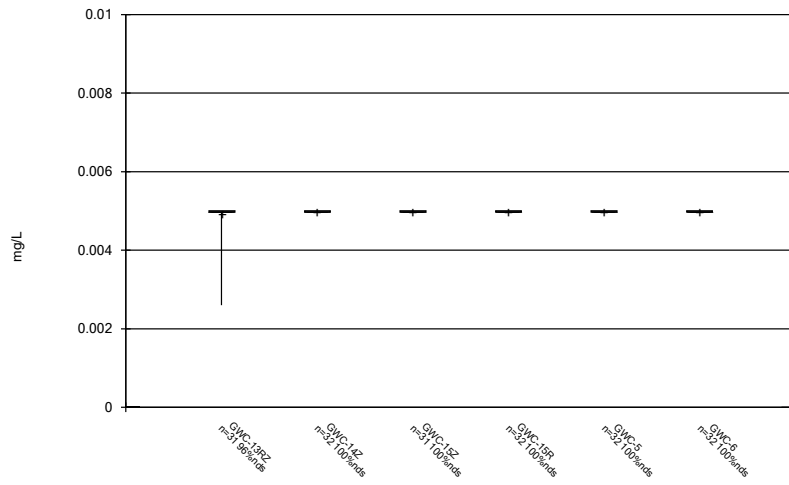
Constituent: Silver Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



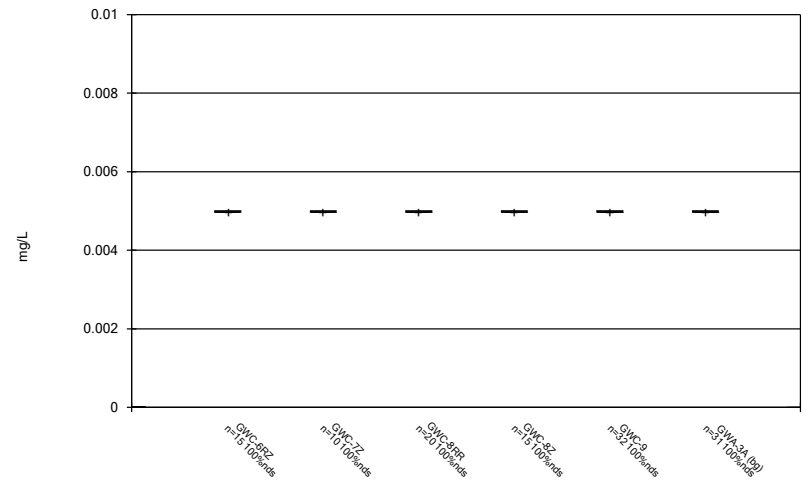
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



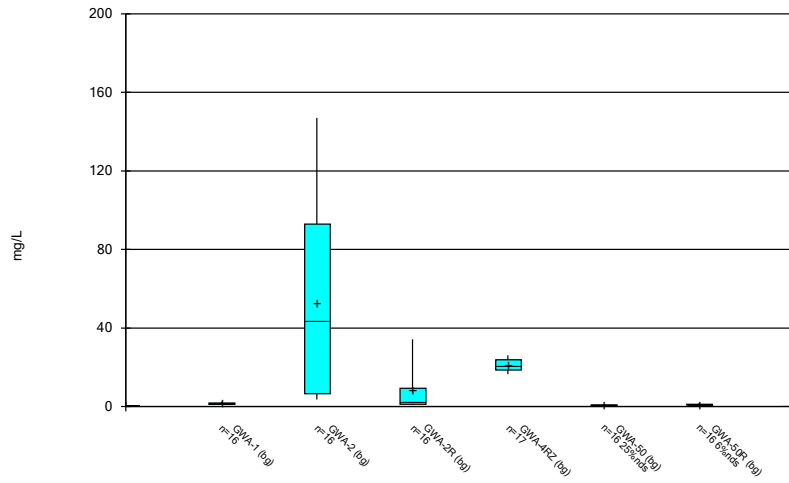
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



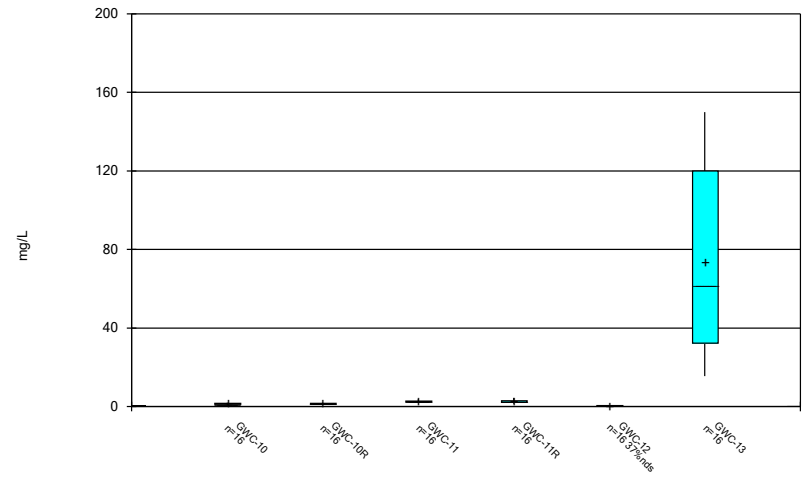
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



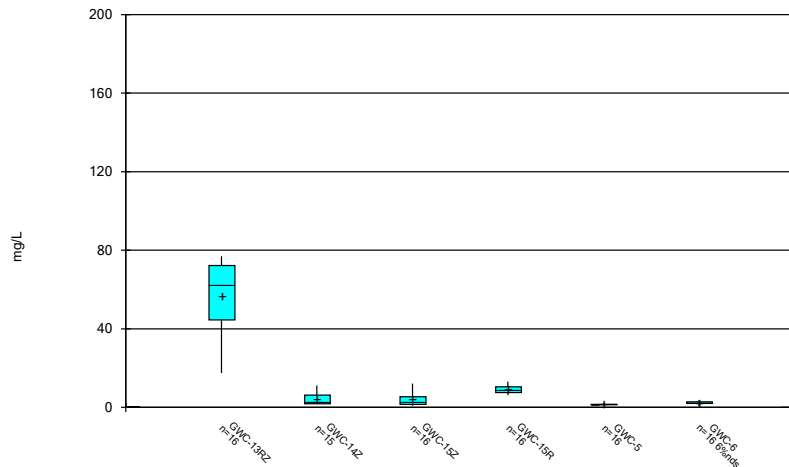
Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



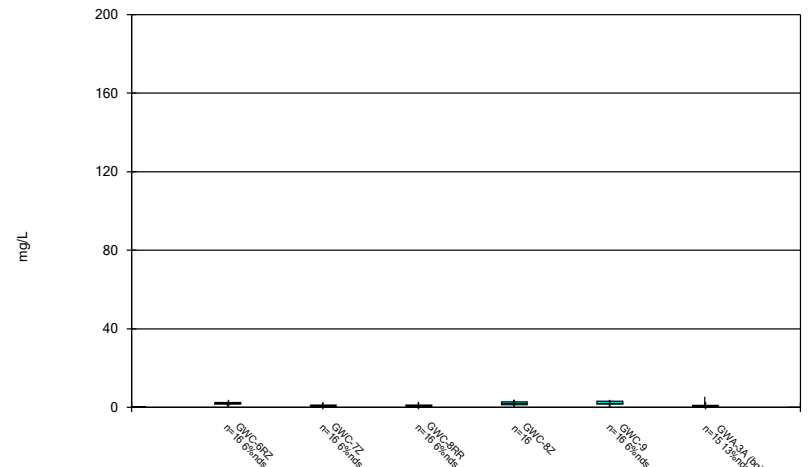
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



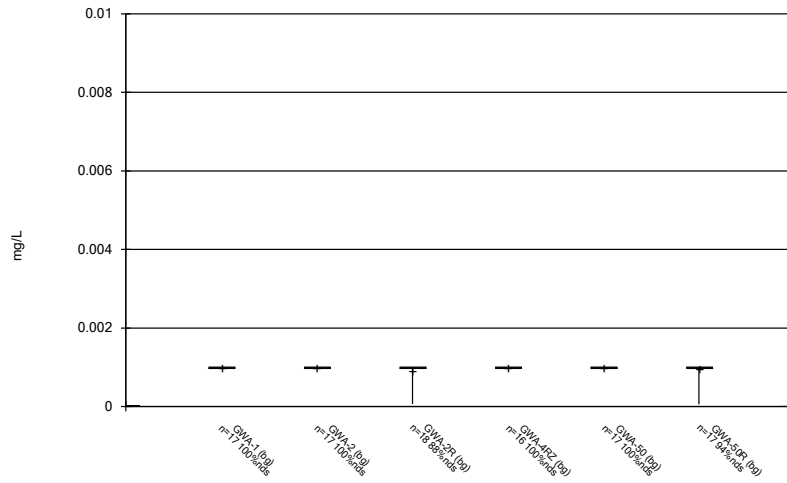
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



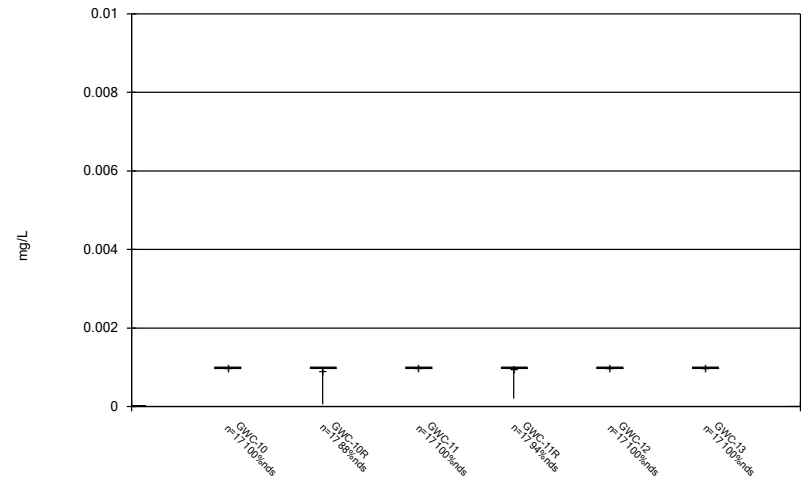
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Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



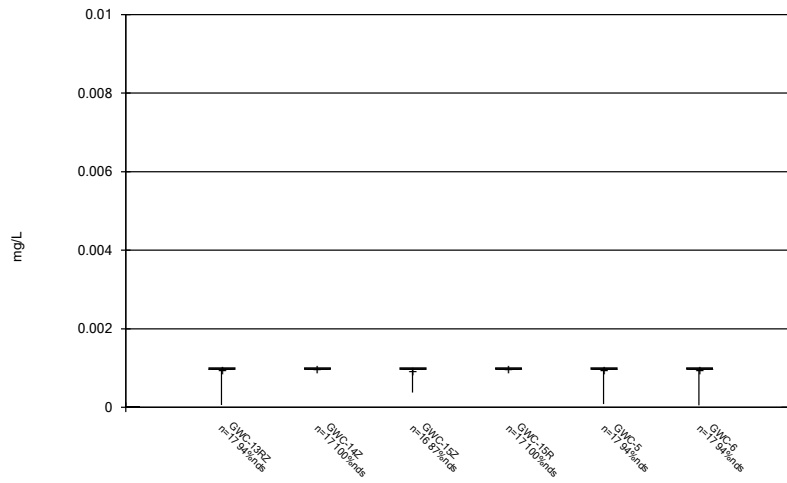
Constituent: Thallium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



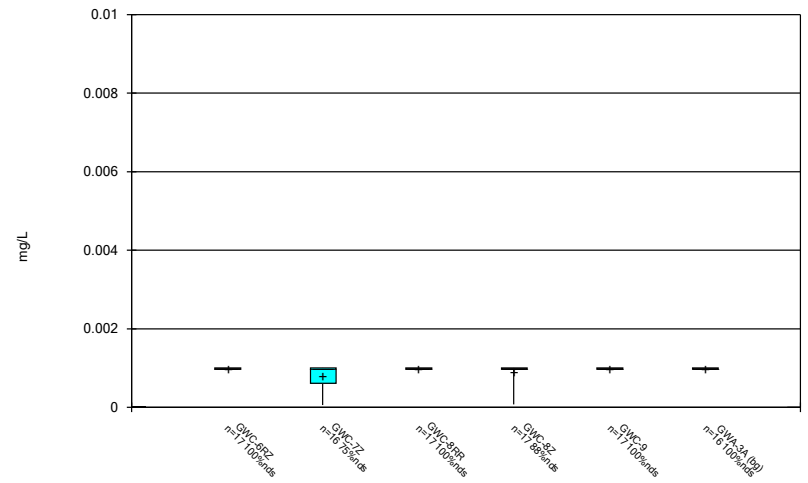
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



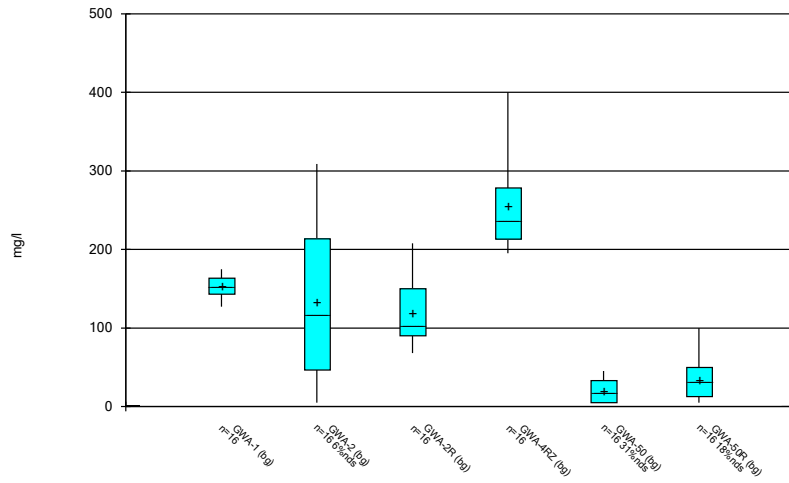
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



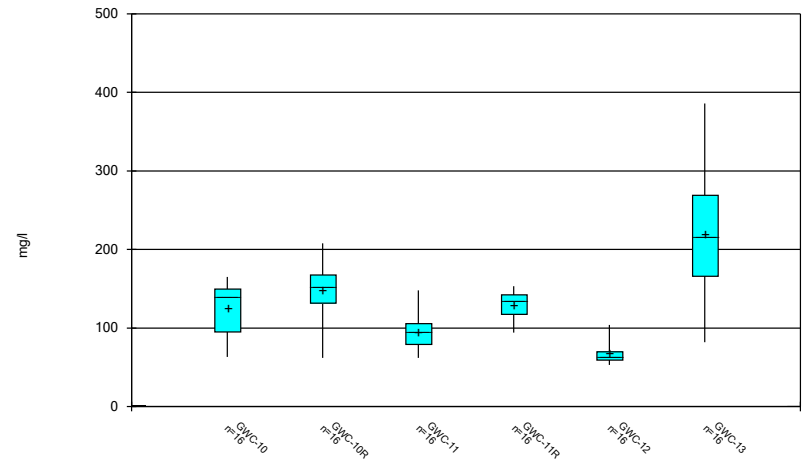
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 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



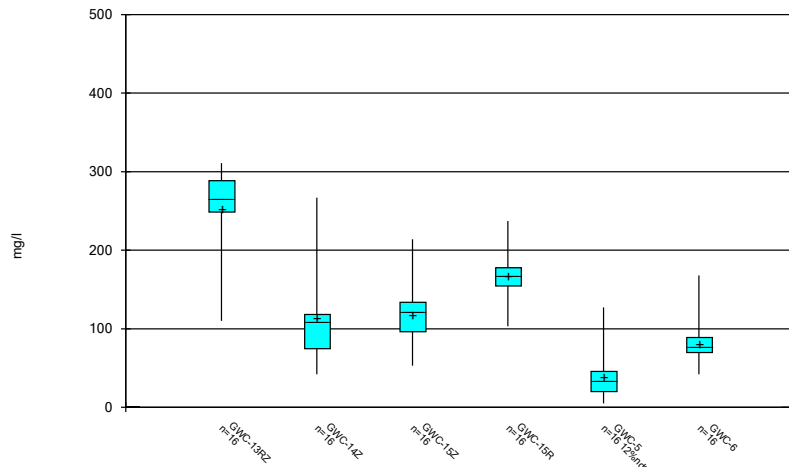
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



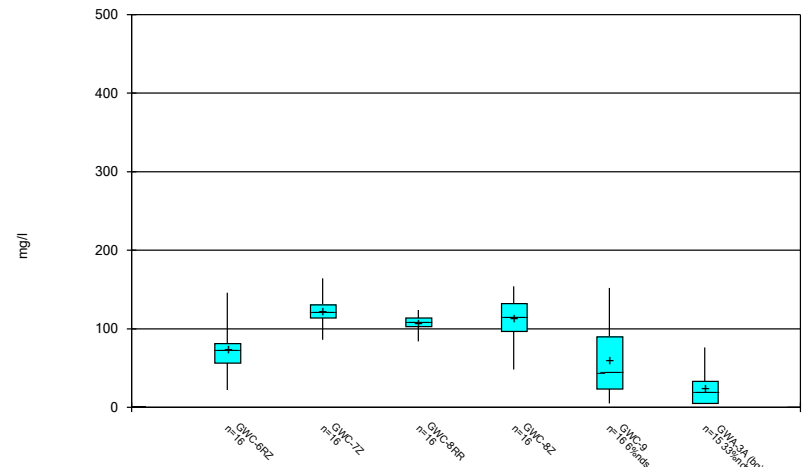
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



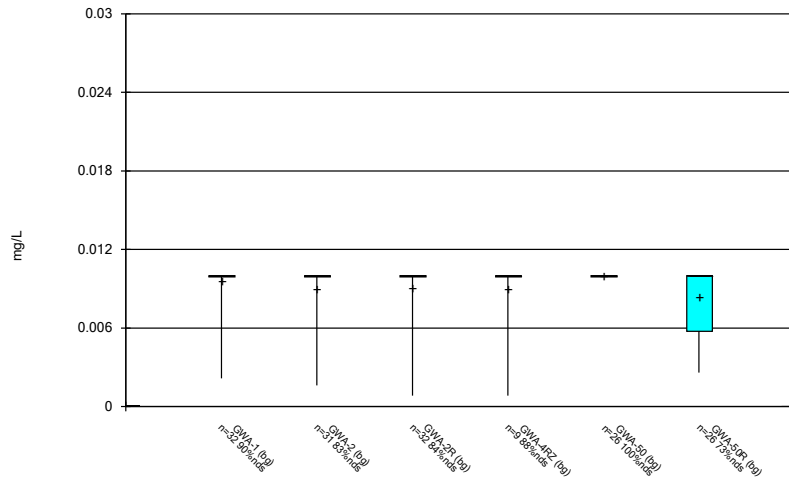
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



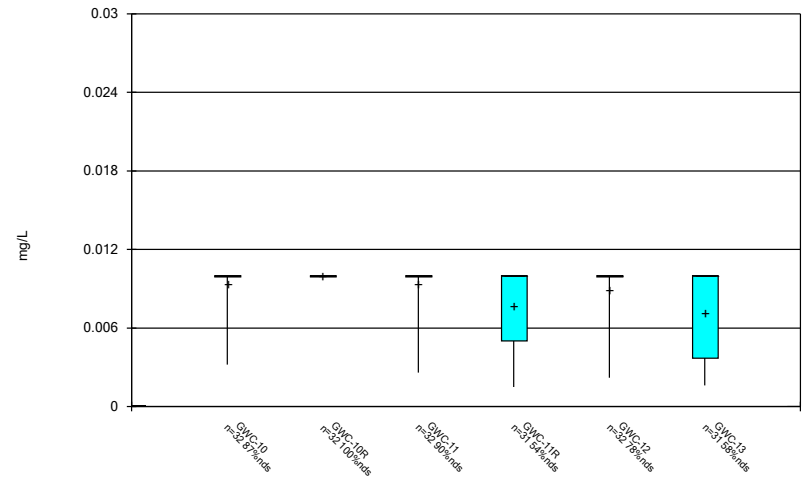
Constituent: Total Dissolved Solids Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



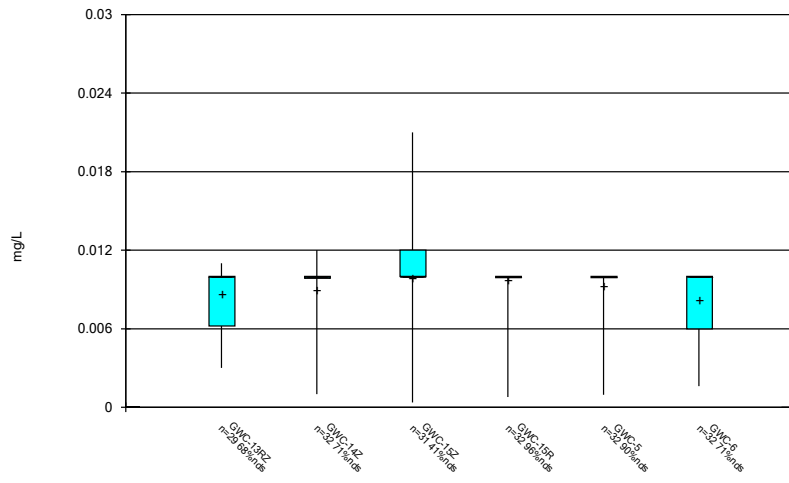
Constituent: Vanadium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



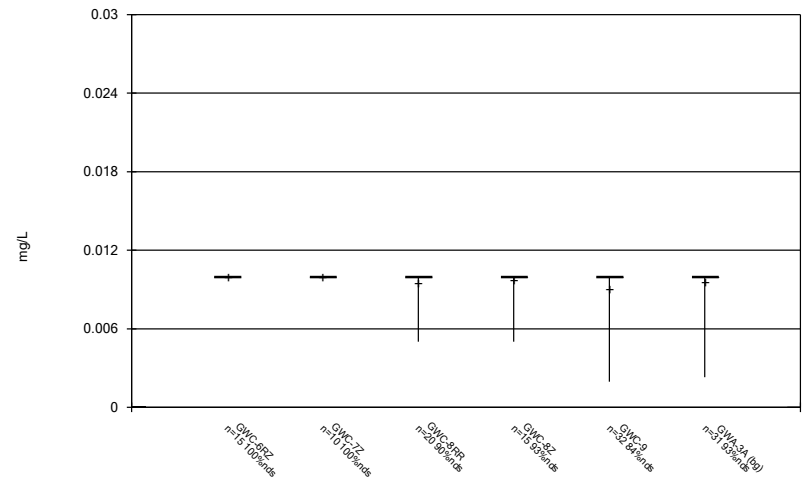
Constituent: Vanadium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



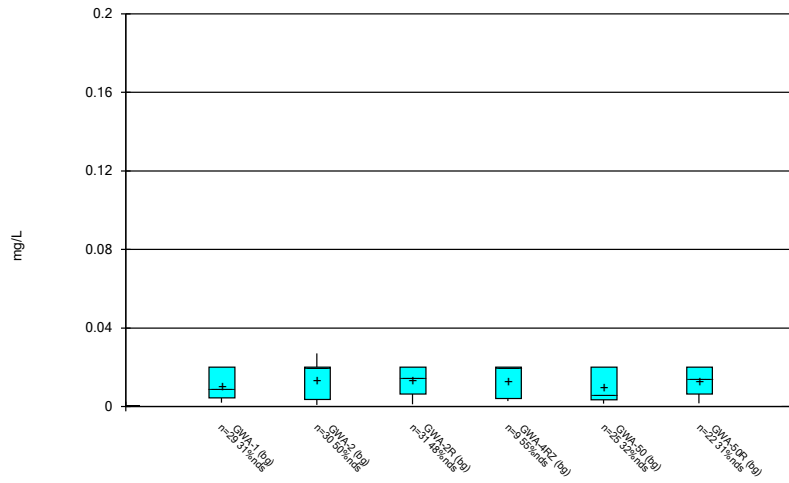
Constituent: Vanadium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



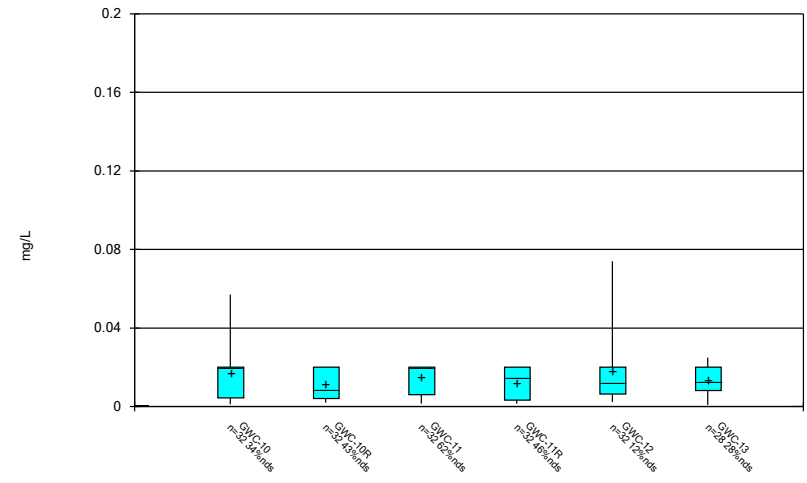
Constituent: Vanadium Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



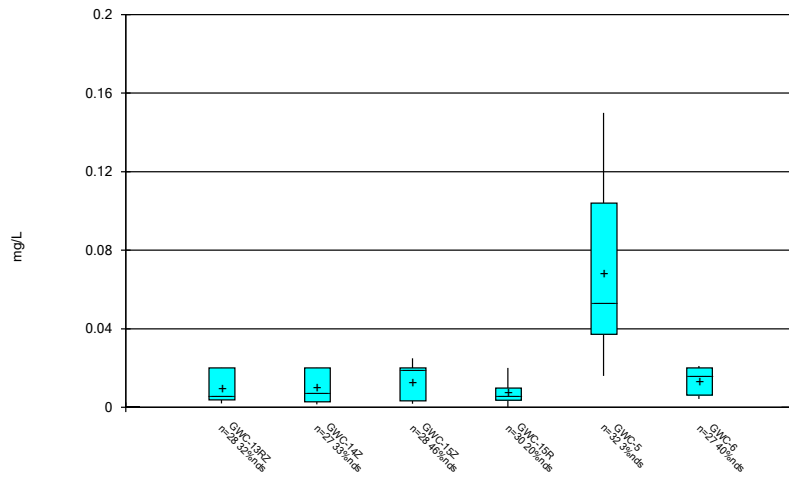
Constituent: Zinc Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



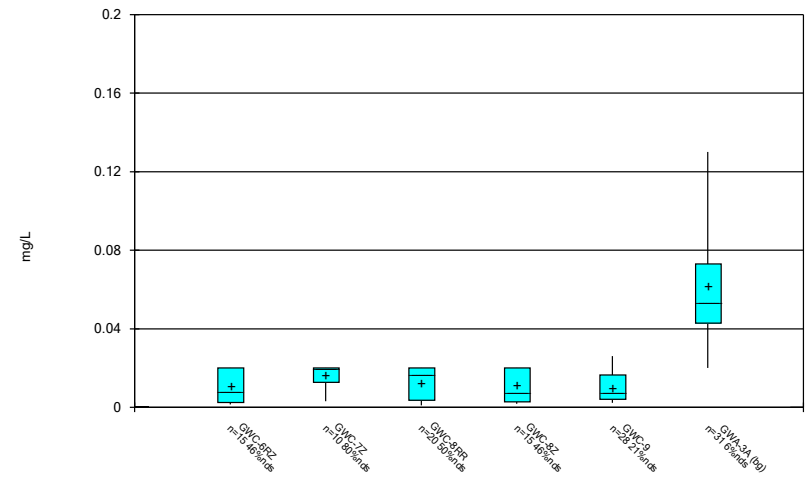
Constituent: Zinc Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/30/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

FIGURE C.

FIGURE D.

Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-3A	0.0068	n/a	3/29/2021	0.003ND	No	32	n/a	n/a	68.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-50	0.003	n/a	3/17/2021	0.003ND	No	26	n/a	n/a	92.31	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-11	0.003	n/a	3/19/2021	0.00032J	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-13	0.003	n/a	3/18/2021	0.00078J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-14Z	0.005	n/a	3/18/2021	0.003ND	No	32	n/a	n/a	87.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-15Z	0.0053	n/a	3/18/2021	0.003ND	No	31	n/a	n/a	83.87	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-5	0.003	n/a	3/17/2021	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-6	0.0035	n/a	3/17/2021	0.003ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-7Z	0.003	n/a	3/17/2021	0.00099J	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWC-9	0.003	n/a	3/18/2021	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWA-3A	0.005	n/a	3/29/2021	0.001J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-10	0.0079	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	90.32	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-11	0.005	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-12	0.012	n/a	3/19/2021	0.0052	No	31	n/a	n/a	29.03	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Arsenic (mg/L)	GWC-13	0.0096	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-14Z	0.0079	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	87.1	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-15Z	0.0077	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-5	0.005	n/a	3/17/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-6	0.005	n/a	3/17/2021	0.0013J	No	31	n/a	n/a	93.55	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-7Z	0.003663	n/a	3/17/2021	0.005ND	No	11	0.002522	0.0005101	18.18	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Arsenic (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.00082J	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Arsenic (mg/L)	GWC-9	0.0086	n/a	3/18/2021	0.005ND	No	31	n/a	n/a	93.55	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Barium (mg/L)	GWA-3A	0.007921	n/a	3/29/2021	0.0073	No	23	0.005815	0.001177	4.348	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWA-50	0.01571	n/a	3/17/2021	0.0074	No	25	0.009848	0.003336	4	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-10	0.02966	n/a	3/18/2021	0.025	No	29	-4.024	0.2943	0	None	ln(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-11	0.036	n/a	3/19/2021	0.011	No	31	n/a	n/a	3.226	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-12	0.07	n/a	3/19/2021	0.024	No	28	n/a	n/a	0	n/a	n/a	0.0002317	NP Intra (normality) 1 of 3
Barium (mg/L)	GWC-13	0.04922	n/a	3/18/2021	0.023	No	30	0.02845	0.01216	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-14Z	0.04432	n/a	3/18/2021	0.014	No	28	0.1367	0.04275	7.143	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-15Z	0.01987	n/a	3/18/2021	0.012	No	31	0.0106	0.00545	3.226	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-5	0.02443	n/a	3/17/2021	0.014	No	31	0.01764	0.003992	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-6	0.02458	n/a	3/17/2021	0.0075	No	29	0.1134	0.02526	3.448	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-7Z	0.03969	n/a	3/17/2021	0.022	No	11	0.0267	0.005812	0	None	No	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-8Z	0.05253	n/a	3/18/2021	0.018	No	15	0.1761	0.02662	0	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Barium (mg/L)	GWC-9	0.04876	n/a	3/18/2021	0.041	No	28	0.03862	0.005872	0	None	No	0.0002993	Param Intra 1 of 3
Beryllium (mg/L)	GWC-10	0.003	n/a	3/18/2021	0.0001J	No	14	n/a	n/a	71.43	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-11	0.0005	n/a	3/19/2021	0.0005ND	No	14	n/a	n/a	100	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-13	0.003	n/a	3/18/2021	0.00007J	No	14	n/a	n/a	57.14	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-14Z	0.003	n/a	3/18/2021	0.00012J	No	14	n/a	n/a	78.57	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-5	0.003	n/a	3/17/2021	0.00061	No	14	n/a	n/a	14.29	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWC-6	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	78.57	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-8Z	0.003	n/a	3/18/2021	0.000085J	No	15	n/a	n/a	93.33	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-9	0.003	n/a	3/18/2021	0.00016J	No	14	n/a	n/a	35.71	n/a	n/a	0.0016	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-50	0.001	n/a	3/17/2021	0.00012J	No	26	n/a	n/a	96.15	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-12	0.001	n/a	3/19/2021	0.00027J	No	32	n/a	n/a	68.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-14Z	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-5	0.00104	n/a	3/17/2021	0.00013J	No	32	n/a	n/a	78.13	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-6	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-7Z	0.001	n/a	3/17/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-8Z	0.001	n/a	3/18/2021	0.001ND	No	15	n/a	n/a	86.67	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-3A	0.027	n/a	3/29/2021	0.00062J	No	29	n/a	n/a	86.21	n/a	n/a	0.0002074	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-50	0.005	n/a	3/17/2021	0.005ND	No	26	n/a	n/a	88.46	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-10	0.042	n/a	3/18/2021	0.00068J	No	32	n/a	n/a	46.88	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-11	0.025	n/a	3/19/2021	0.0073	No	32	n/a	n/a	28.13	n/a	n/a	0.0001572	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-12	0.039	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	71.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-13	0.02017	n/a	3/18/2021	0.0058	No	32	-4.769	0.511	0	None	ln(x)	0.0002993	Param Intra 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-14Z	0.01856	n/a	3/18/2021	0.0023J	No	31	0.07182	0.03787	25.81	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3
Chromium (mg/L)	GWC-15Z	0.027	n/a	3/18/2021	0.00078J	No	26	n/a	n/a	57.69	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-5	0.032	n/a	3/17/2021	0.00069J	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	3/17/2021	0.0027J	No	31	n/a	n/a	32.26	n/a	n/a	0.0001701	NP Intra (normality) 1 of 3
Chromium (mg/L)	GWC-7Z	0.005	n/a	3/17/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	0.0015J	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	3/18/2021	0.005ND	No	30	n/a	n/a	80	n/a	n/a	0.0001831	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-3A	0.01	n/a	3/29/2021	0.01ND	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	3/18/2021	0.001J	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	3/19/2021	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	3/19/2021	0.0029J	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	3/18/2021	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-14Z	0.011	n/a	3/18/2021	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-15Z	0.01	n/a	3/18/2021	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	3/17/2021	0.01ND	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	3/17/2021	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	0.01	n/a	3/17/2021	0.00045J	No	11	n/a	n/a	9.091	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cobalt (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	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	3/18/2021	0.01ND	No	31	n/a	n/a	70.97	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-3A	0.0509	n/a	3/29/2021	0.005ND	No	27	0.03618	0.008473	0	None	No	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWA-50	0.01497	n/a	3/17/2021	0.0019J	No	21	0.1825	0.03515	19.05	Kaplan-Meier	x^(1/3)	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-10	0.006	n/a	3/18/2021	0.005ND	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	0.013	n/a	3/19/2021	0.005ND	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	0.0067	n/a	3/19/2021	0.005ND	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	0.005	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	85.19	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-14Z	0.0056	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	66.67	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-15Z	0.021	n/a	3/18/2021	0.005ND	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	3/17/2021	0.019	No	26	0.02693	0.01643	0	None	No	0.0002993	Param Intra 1 of 3
Copper (mg/L)	GWC-6	0.0069	n/a	3/17/2021	0.005ND	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	0.005	n/a	3/17/2021	0.005ND	No	5	n/a	n/a	60	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-9	0.01	n/a	3/18/2021	0.005ND	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	0.001	n/a	3/17/2021	0.001ND	No	26	n/a	n/a	92.31	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-10	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-11	0.001	n/a	3/19/2021	0.001ND	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	3/18/2021	0.00024J	No	32	n/a	n/a	84.38	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-14Z	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-15Z	0.005	n/a	3/18/2021	0.00004J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-5	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-6	0.005	n/a	3/17/2021	0.000074J	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	3/17/2021	0.000049J	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	3/18/2021	0.00011J	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	3/18/2021	0.0001J	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	0.0002	n/a	3/17/2021	0.0002ND	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	0.0002	n/a	3/19/2021	0.0002ND	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	0.0002	n/a	3/19/2021	0.0002ND	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	0.0002	n/a	3/18/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-15Z	0.0002	n/a	3/18/2021	0.0002ND	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	0.0002	n/a	3/17/2021	0.0002ND	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	0.0002	n/a	3/17/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWA-3A	0.05886	n/a	3/29/2021	0.005ND	No	26	-3.665	0.4764	0	None	ln(x)	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWA-50	0.005	n/a	3/17/2021	0.005ND	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	3/18/2021	0.00094J	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	0.0087	n/a	3/19/2021	0.005ND	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	3/19/2021	0.0022J	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	3/18/2021	0.005ND	No	27	n/a	n/a	74.07	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3

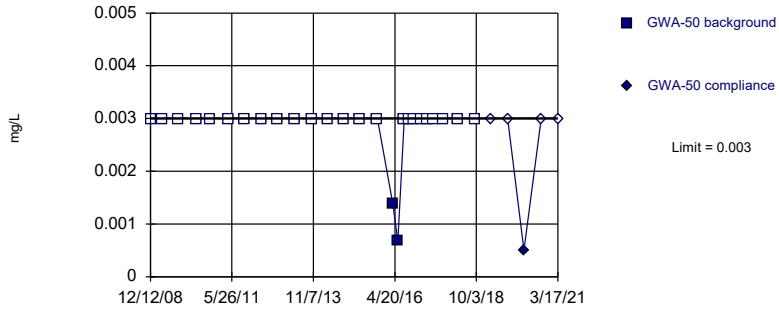
Appendix I Overburden Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nickel (mg/L)	GWC-14Z	0.011	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	62.96	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Nickel (mg/L)	GWC-15Z	0.019	n/a	3/18/2021	0.005ND	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	3/17/2021	0.0077	No	27	0.02419	0.01273	0	None	No	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-6	0.022	n/a	3/17/2021	0.005ND	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	3/17/2021	0.005ND	No	5	0.001133	0.00004714	40	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Nickel (mg/L)	GWC-8Z	0.005	n/a	3/18/2021	0.005ND	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	3/18/2021	0.001J	No	25	n/a	n/a	40	n/a	n/a	0.0003046	NP Intra (normality) 1 of 3
Selenium (mg/L)	GWC-13	0.01	n/a	3/18/2021	0.0021J	No	32	n/a	n/a	62.5	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-14Z	0.01	n/a	3/18/2021	0.0016J	No	32	n/a	n/a	100	n/a	n/a	0.0001572	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-5	0.01	n/a	3/17/2021	0.0019J	No	31	n/a	n/a	90.32	n/a	n/a	0.0001701	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-8Z	0.01	n/a	3/18/2021	0.0089	No	15	n/a	n/a	100	n/a	n/a	0.001313	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-9	0.005	n/a	3/18/2021	0.005ND	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	3/17/2021	0.00044J	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	0.005	n/a	3/19/2021	0.005ND	No	27	n/a	n/a	96.3	n/a	n/a	0.000256	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-15Z	0.001	n/a	3/18/2021	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-5	0.001	n/a	3/17/2021	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-6	0.001	n/a	3/17/2021	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-7Z	0.001	n/a	3/17/2021	0.00015J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Thallium (mg/L)	GWC-8Z	0.001	n/a	3/18/2021	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-3A	0.01	n/a	3/29/2021	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	3/18/2021	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	3/19/2021	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	3/19/2021	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	3/18/2021	0.01ND	No	26	n/a	n/a	53.85	n/a	n/a	0.0002803	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	GWC-14Z	0.012	n/a	3/18/2021	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-15Z	0.0165	n/a	3/18/2021	0.01ND	No	26	0.006028	0.005988	34.62	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Vanadium (mg/L)	GWC-5	0.01	n/a	3/17/2021	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	3/17/2021	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	3/18/2021	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	3/18/2021	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-3A	0.1191	n/a	3/29/2021	0.02ND	No	27	0.2529	0.05307	3.704	None	sqrt(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWA-50	0.009177	n/a	3/17/2021	0.02ND	No	20	-5.563	0.4751	25	Kaplan-Meier	ln(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-10	0.03667	n/a	3/18/2021	0.02ND	No	27	0.09035	0.0582	29.63	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-11	0.02	n/a	3/19/2021	0.02ND	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	3/19/2021	0.0076J	No	27	-4.541	0.9693	14.81	None	ln(x)	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-13	0.01765	n/a	3/18/2021	0.02ND	No	23	0.008589	0.005062	26.09	Kaplan-Meier	No	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-14Z	0.02	n/a	3/18/2021	0.02ND	No	22	n/a	n/a	27.27	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-15Z	0.025	n/a	3/18/2021	0.02ND	No	23	n/a	n/a	43.48	n/a	n/a	0.0004078	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-5	0.1443	n/a	3/17/2021	0.027	No	27	0.07538	0.03964	3.704	None	No	0.0002993	Param Intra 1 of 3
Zinc (mg/L)	GWC-6	0.021	n/a	3/17/2021	0.02ND	No	22	n/a	n/a	36.36	n/a	n/a	0.0004594	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-7Z	0.02	n/a	3/17/2021	0.02ND	No	5	n/a	n/a	100	n/a	n/a	0.01896	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWC-8Z	0.02	n/a	3/18/2021	0.02ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-9	0.01702	n/a	3/18/2021	0.02ND	No	23	0.08208	0.02704	17.39	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 3

Within Limit

Prediction Limit Intrawell Non-parametric

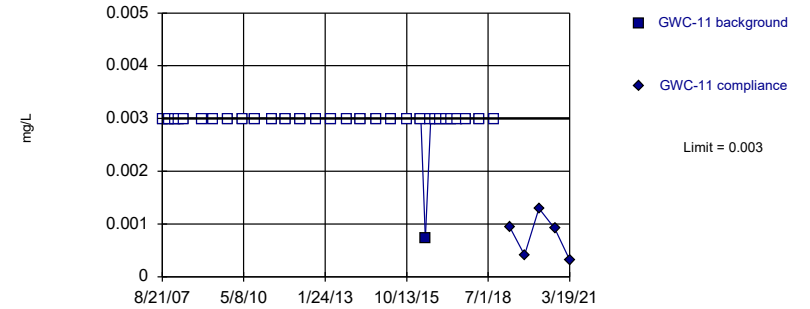


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

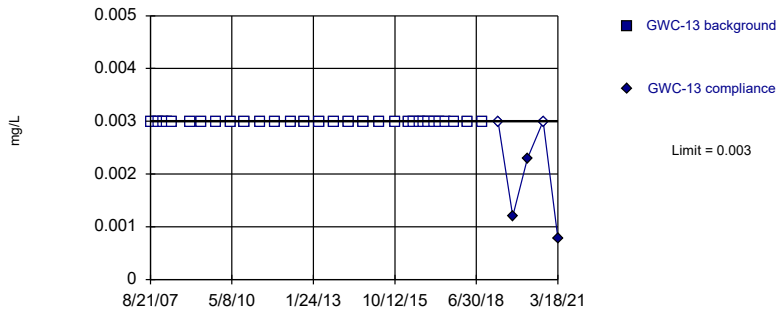


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

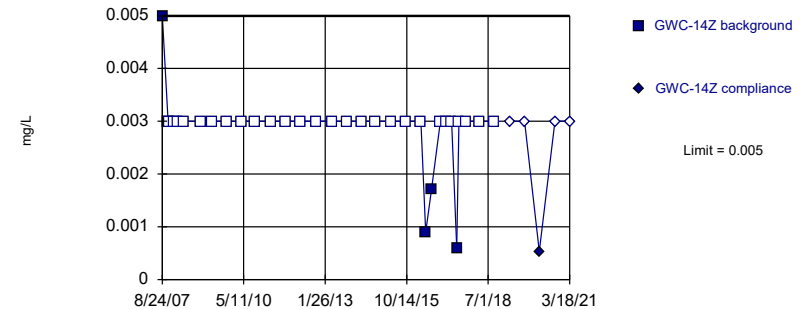


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

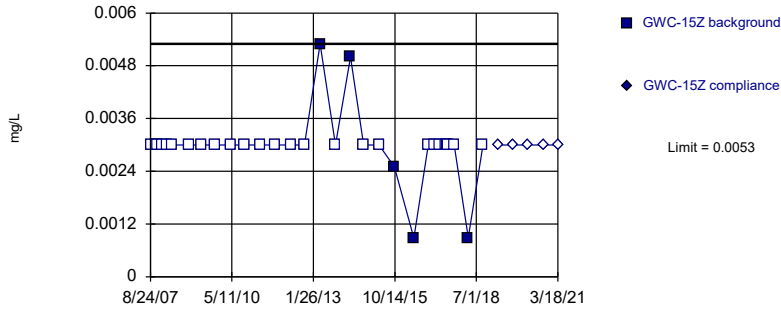


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

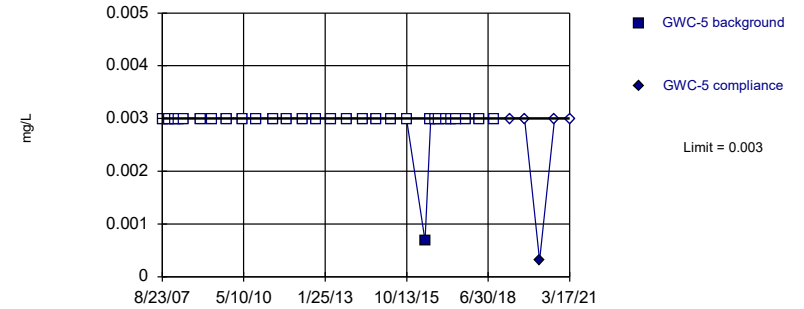


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

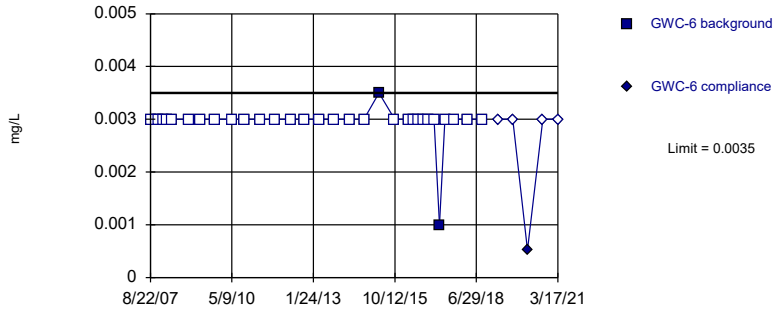


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

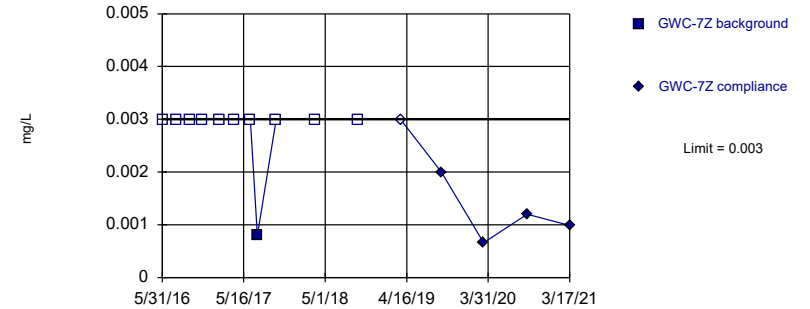


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

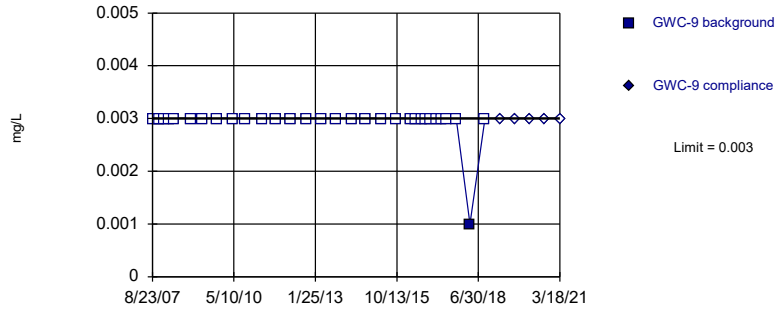


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

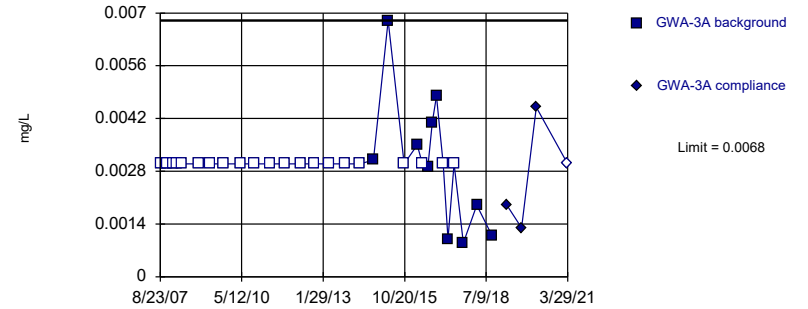


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

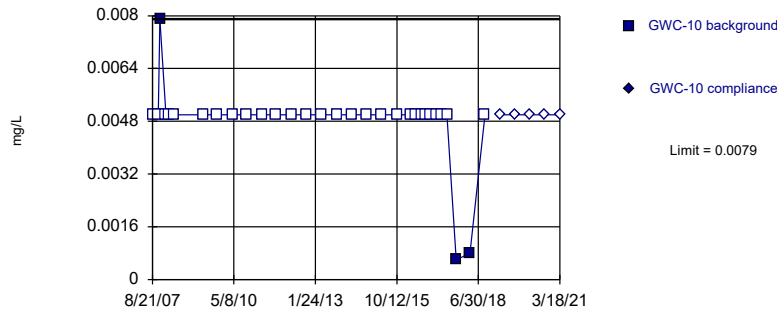


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Antimony Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

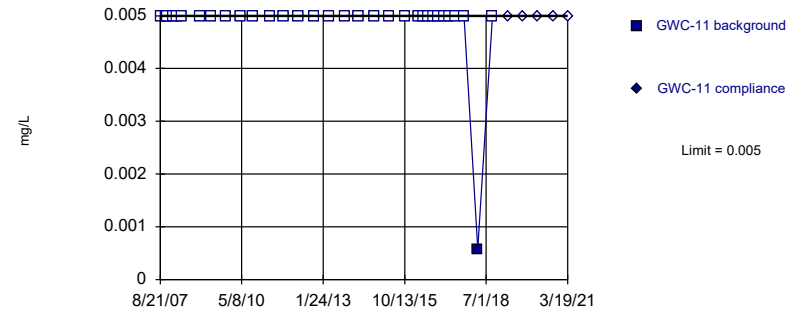


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

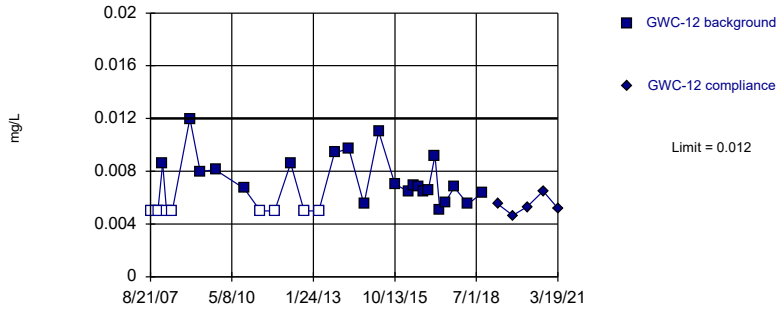


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

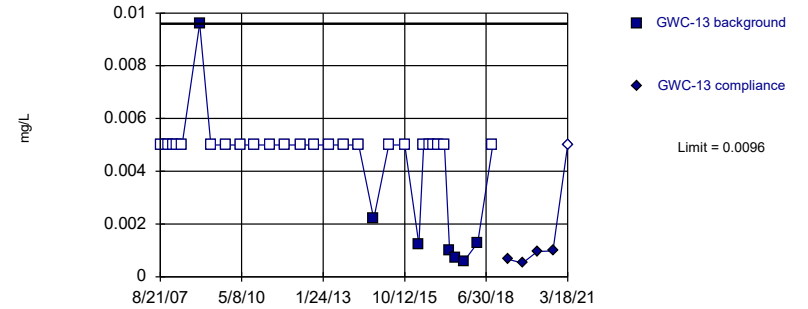


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 29.03% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

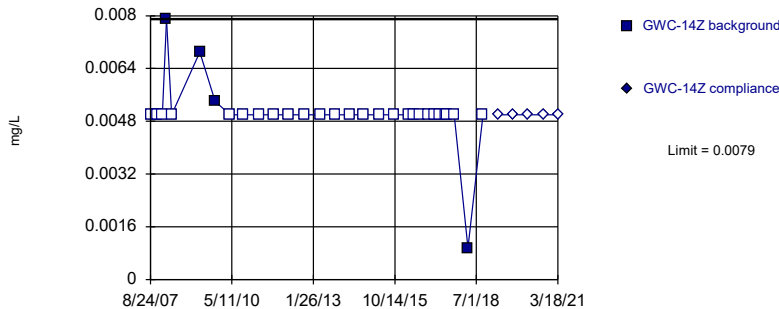


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

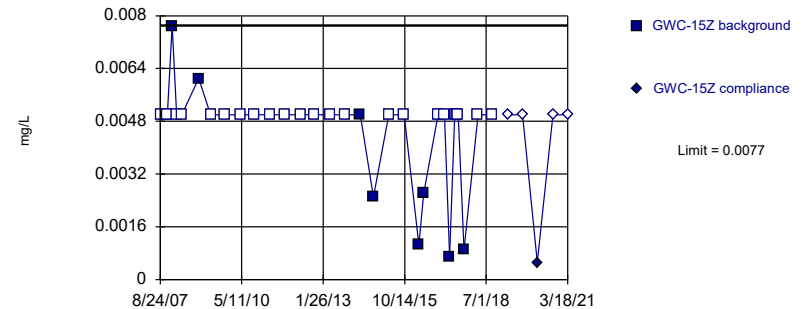


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

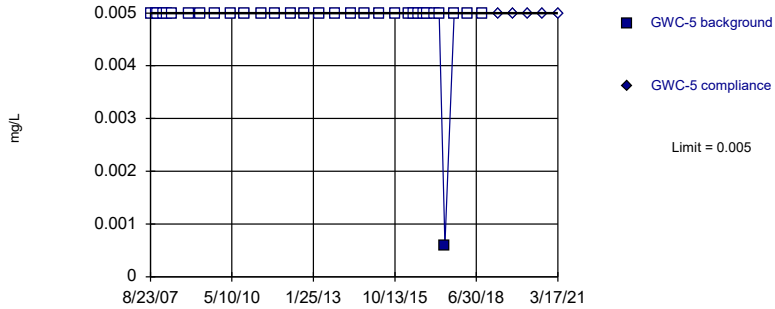


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

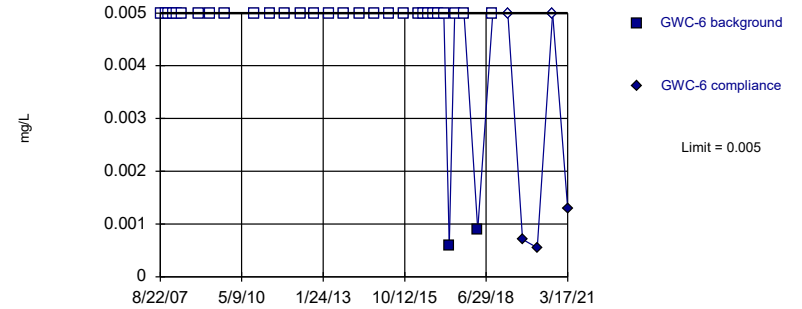


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

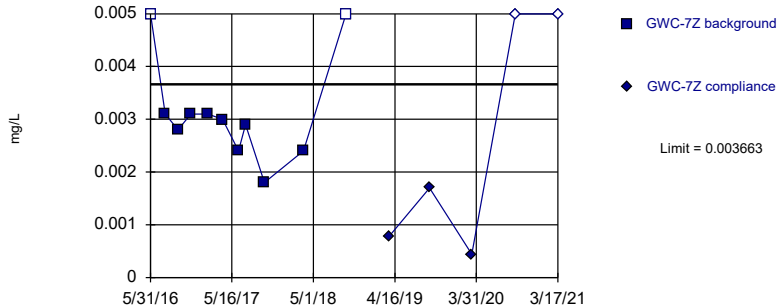


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

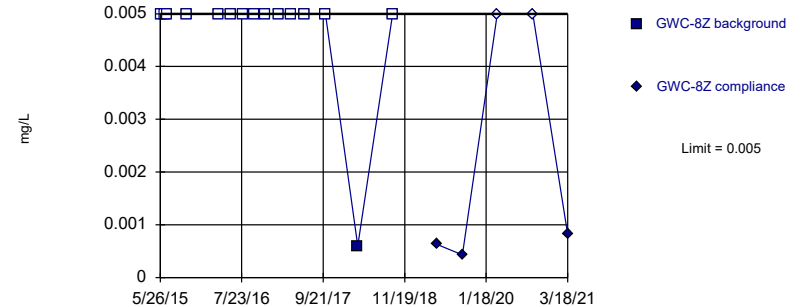


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002522, Std. Dev.=0.0005101, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8226, critical = 0.792. Kappa = 2.236 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

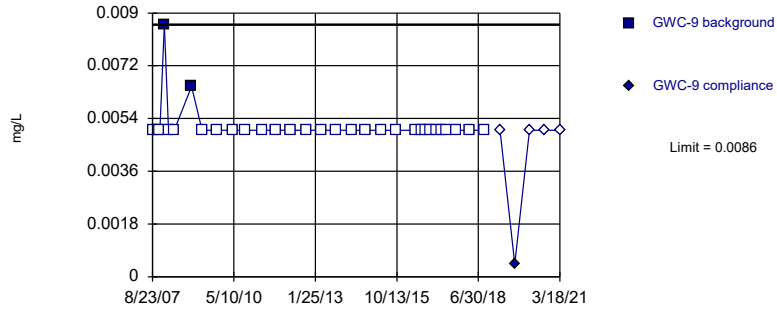


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

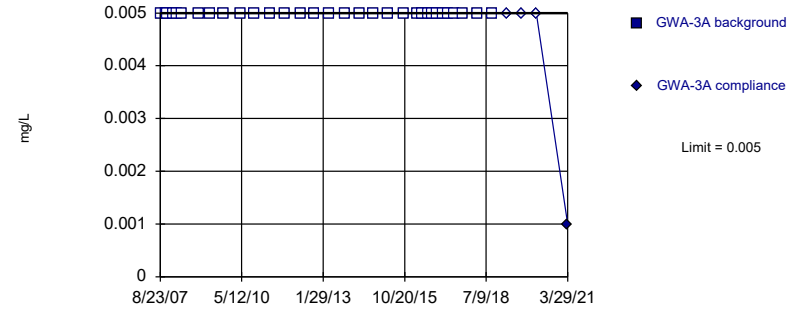


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

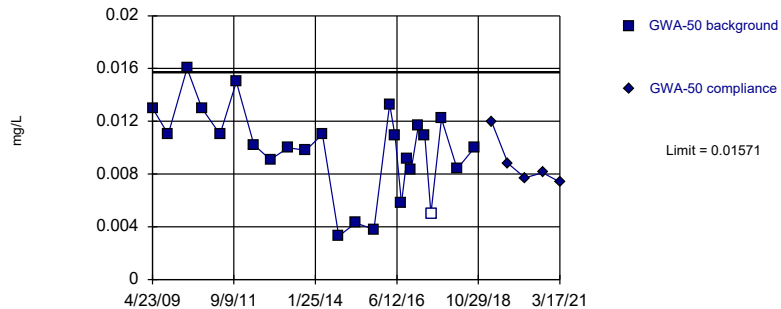


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Arsenic Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

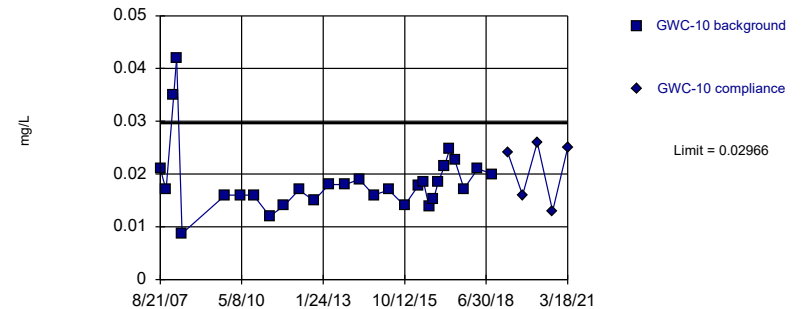


Background Data Summary: Mean=0.009848, Std. Dev.=0.003336, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9472, critical = 0.888. Kappa = 1.758 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

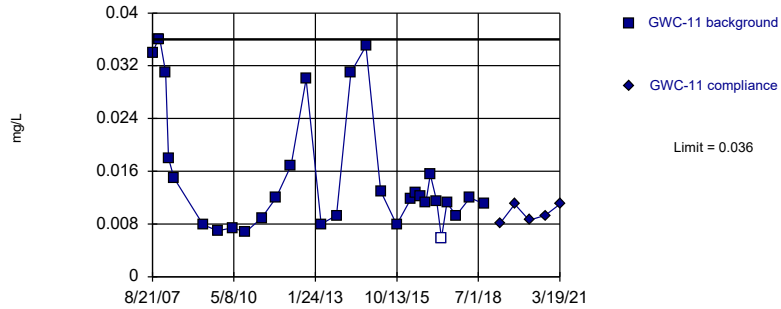


Background Data Summary (based on natural log transformation): Mean=-4.024, Std. Dev.=0.2943, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.898. Kappa = 1.718 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:26 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

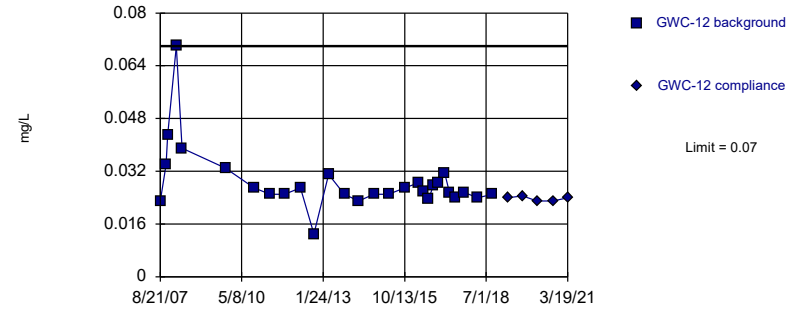


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 3.226% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

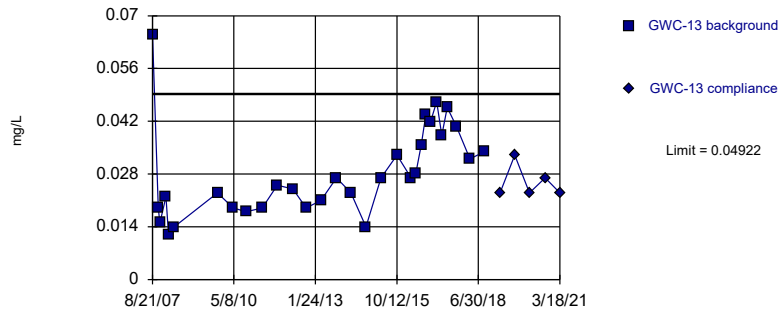


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. Well-constituent pair annual alpha = 0.0004633. Individual comparison alpha = 0.0002317 (1 of 3).

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

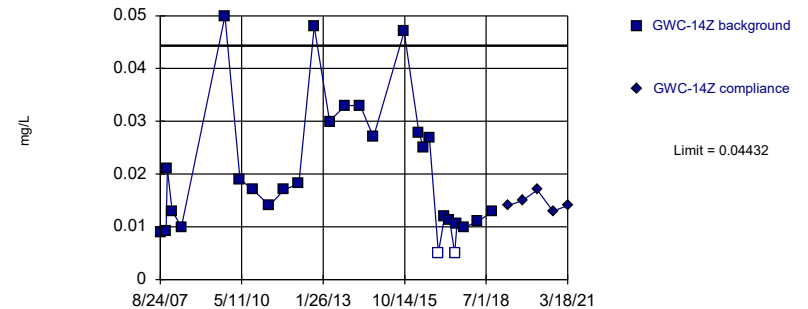


Background Data Summary: Mean=0.02845, Std. Dev.=0.01216, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.9. Kappa = 1.708 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

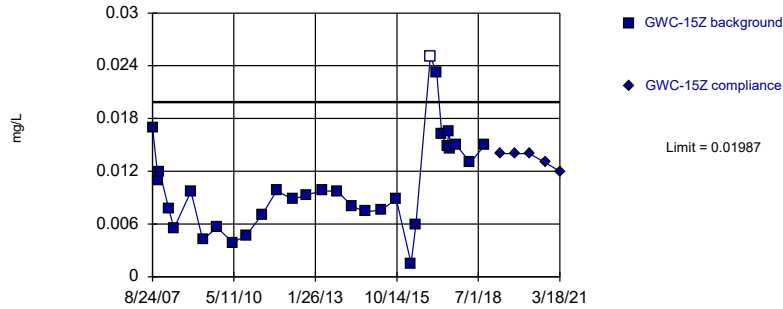


Background Data Summary (based on square root transformation): Mean=0.1367, Std. Dev.=0.04275, n=28, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9389, critical = 0.896. Kappa = 1.728 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

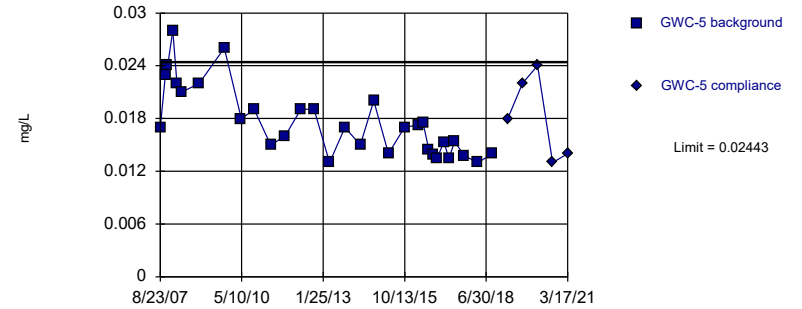


Background Data Summary: Mean=0.0106, Std. Dev.=0.00545, n=31, 3.226% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.939, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

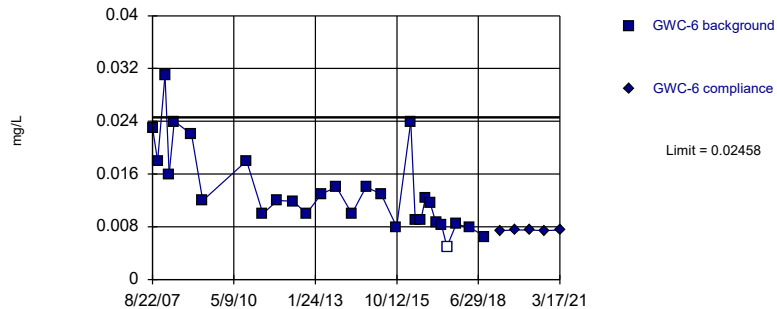


Background Data Summary: Mean=0.01764, Std. Dev.=0.003992, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

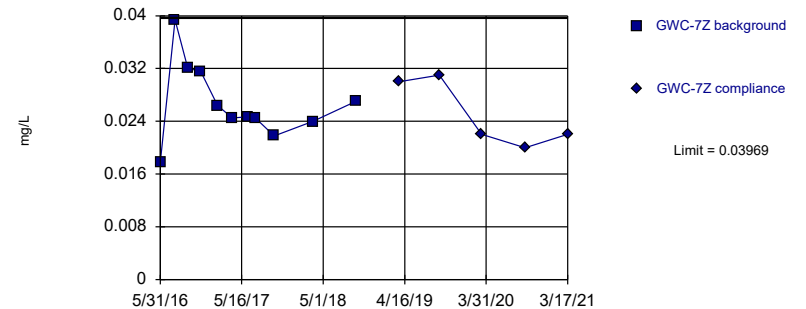


Background Data Summary (based on square root transformation): Mean=0.1134, Std. Dev.=0.02526, n=29, 3.448% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.898. Kappa = 1.718 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

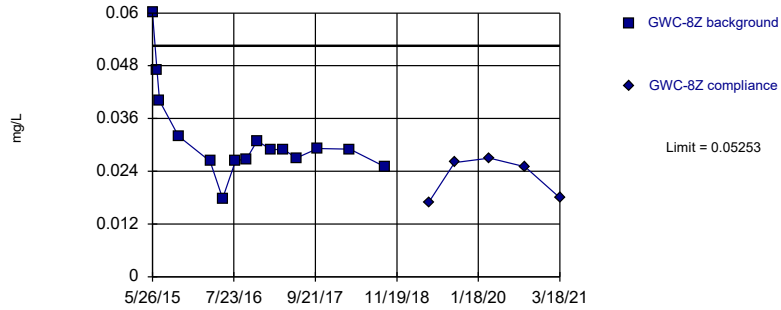


Background Data Summary: Mean=0.0267, Std. Dev.=0.005812, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9261, critical = 0.792. Kappa = 2.236 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

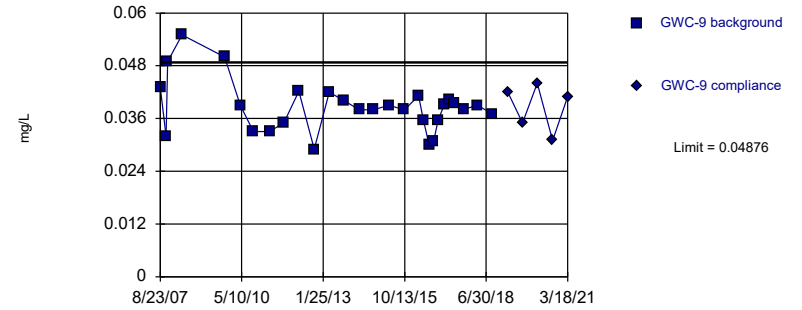


Background Data Summary (based on square root transformation): Mean=0.1761, Std. Dev.=0.02662, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.835. Kappa = 1.993 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

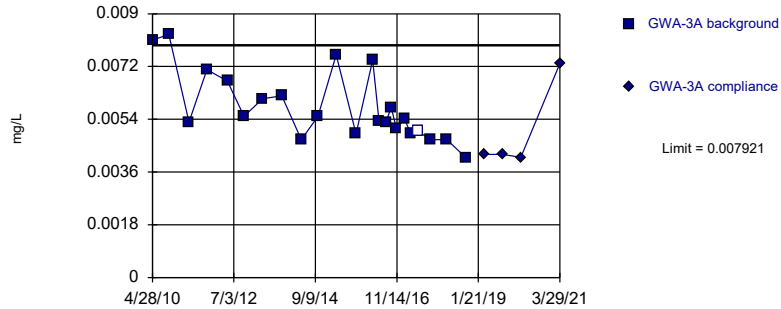


Background Data Summary: Mean=0.03862, Std. Dev.=0.005872, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.896. Kappa = 1.728 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

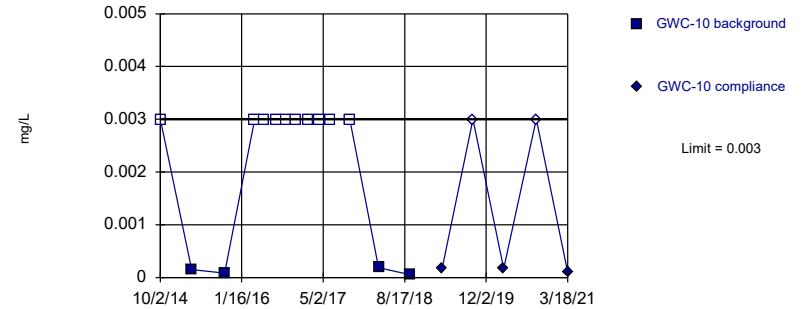


Background Data Summary: Mean=0.005815, Std. Dev.=0.001177, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.901, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 4/30/2021 11:27 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

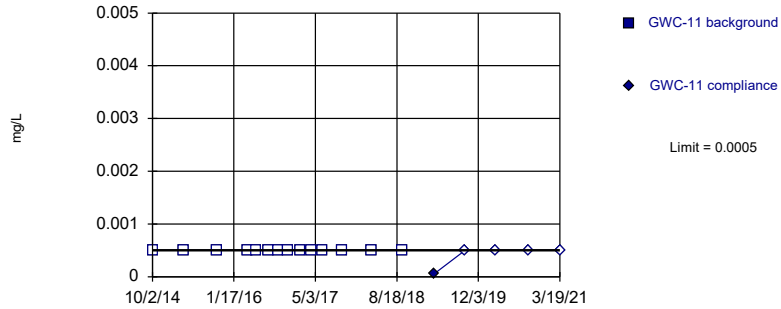


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

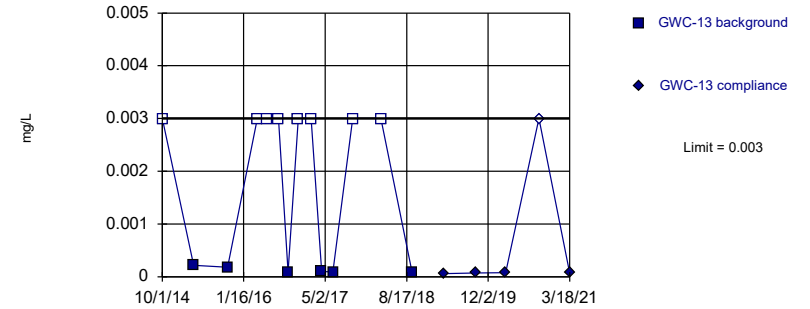


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 14) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

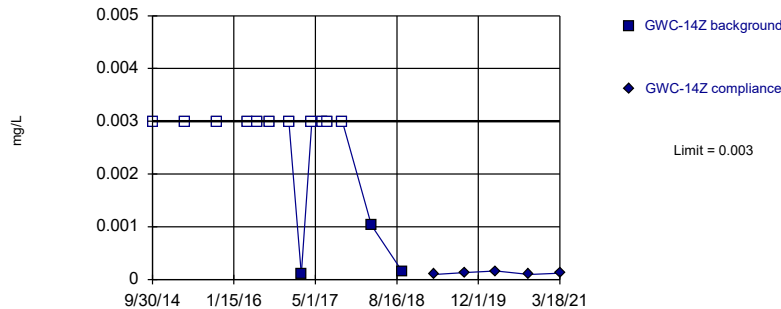


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

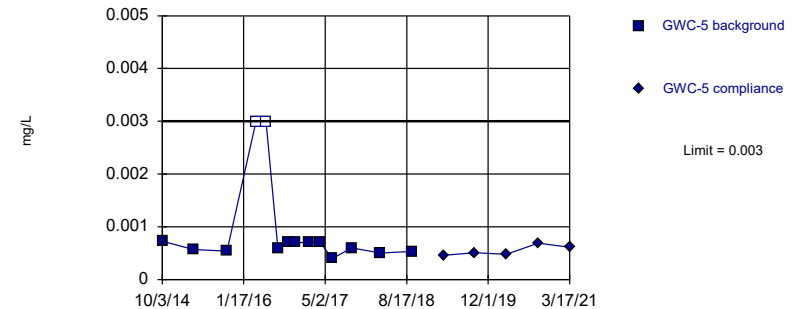


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

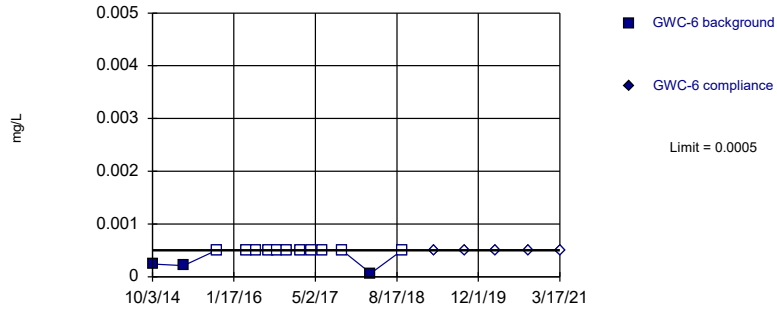


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 14.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

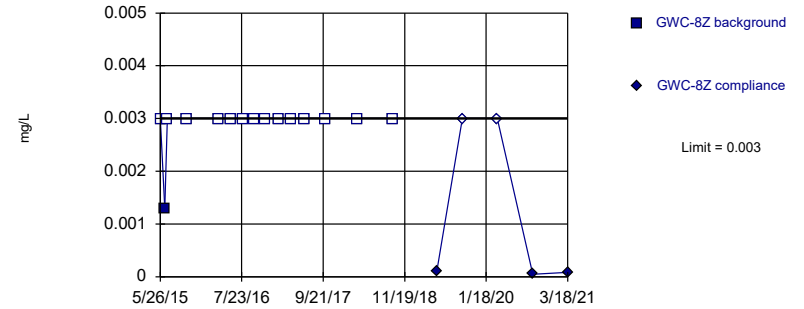


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

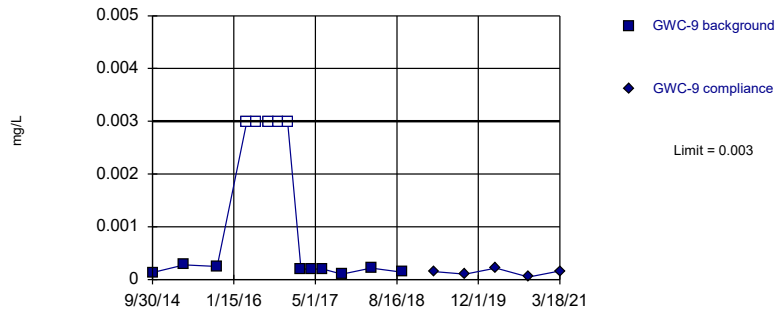


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

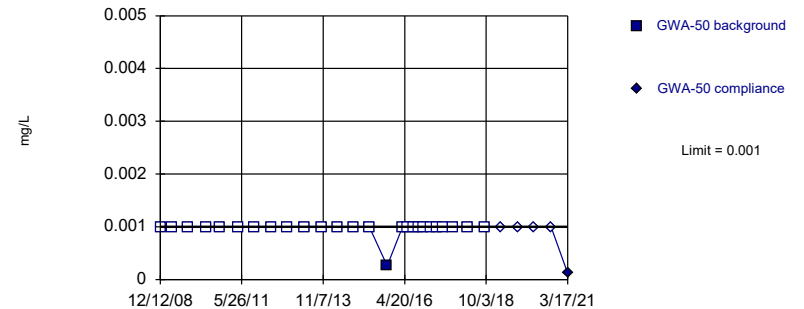


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 35.71% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Beryllium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

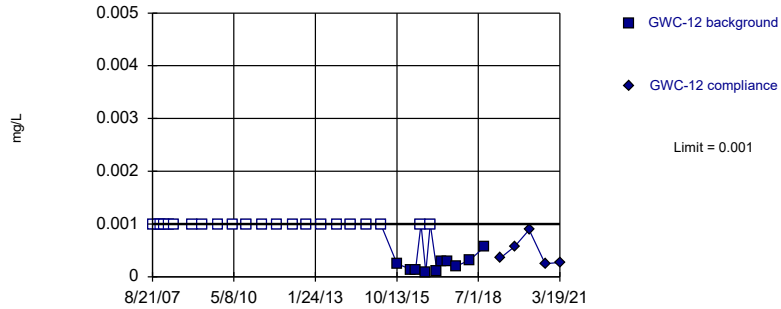


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

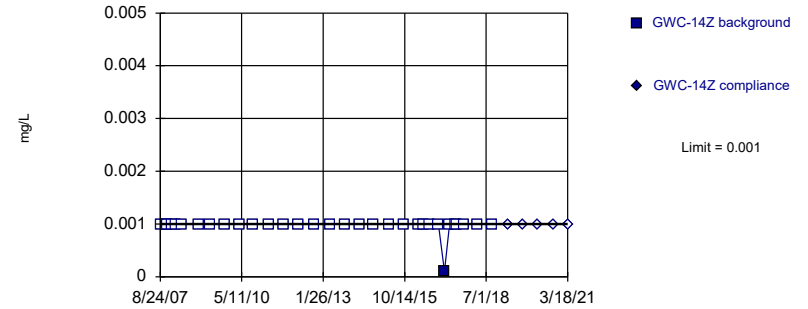


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

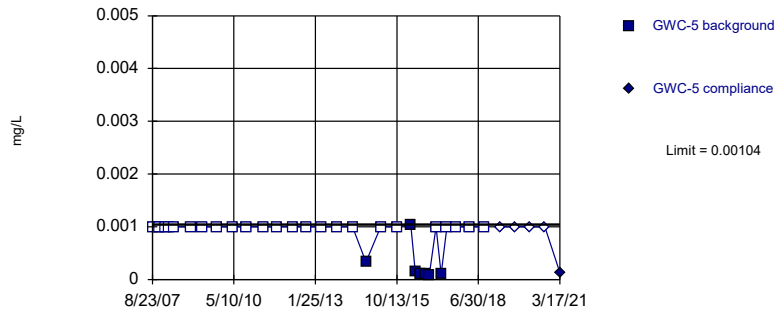


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

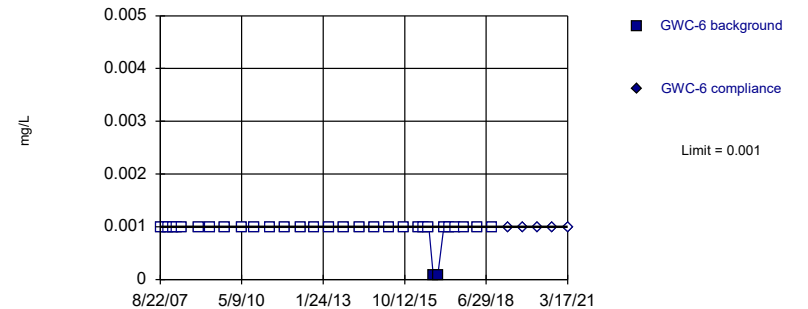


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

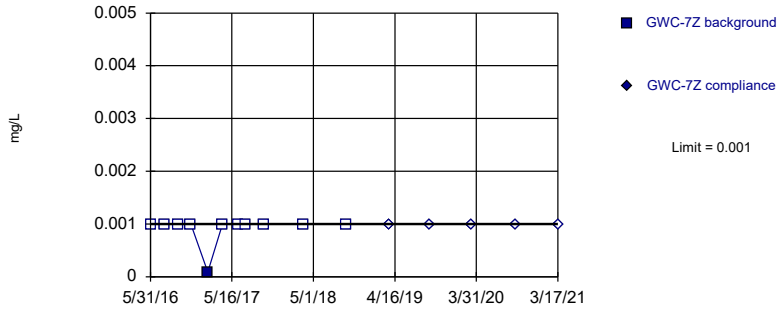


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

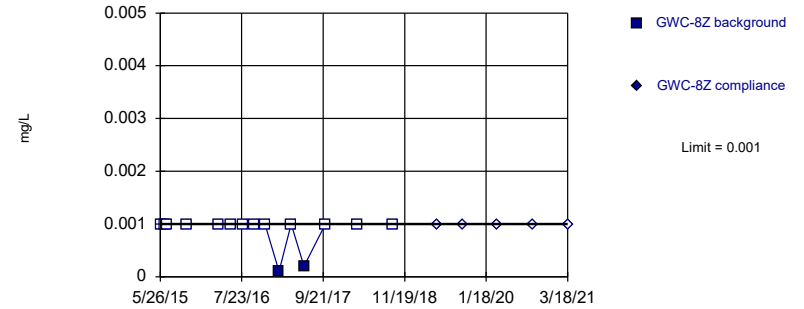


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

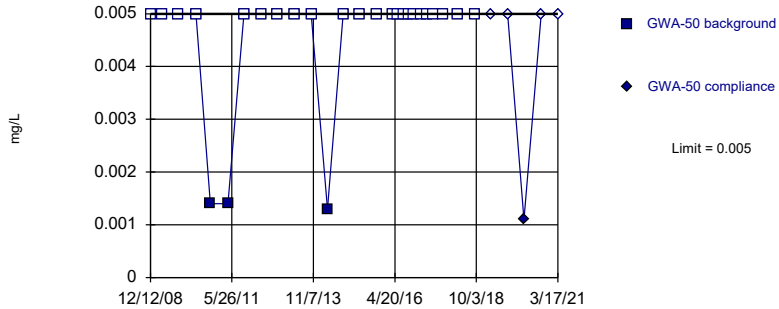


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Cadmium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

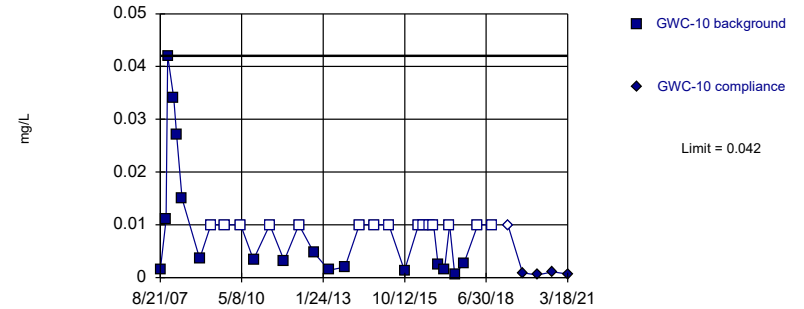


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

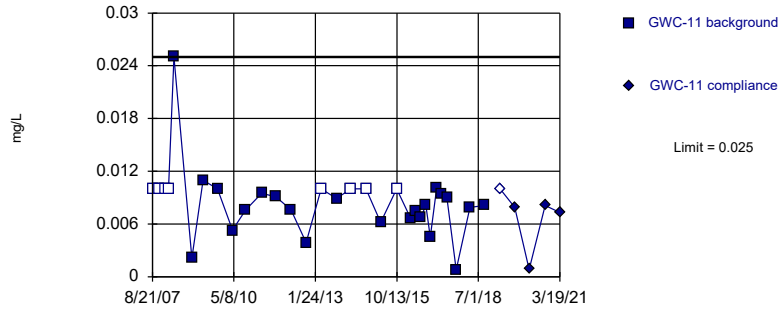


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 46.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

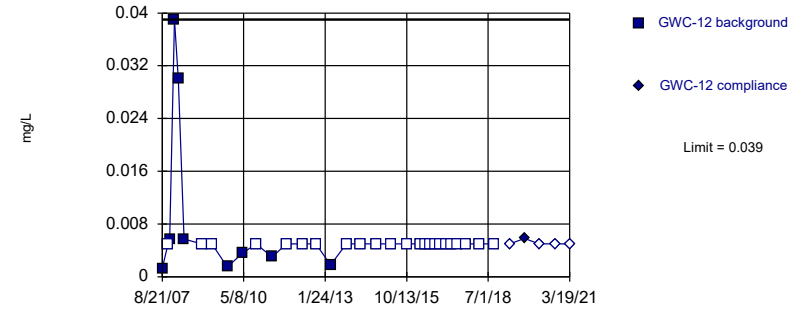


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 28.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

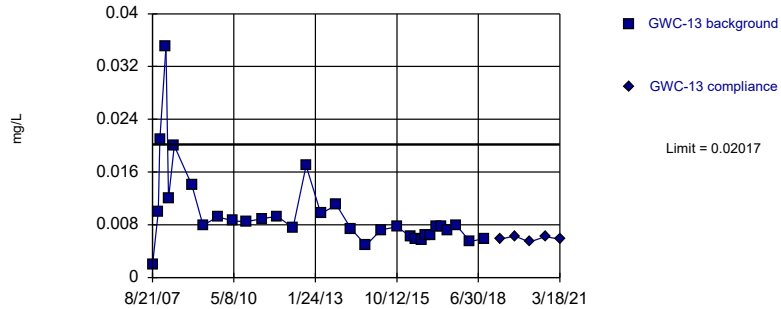


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

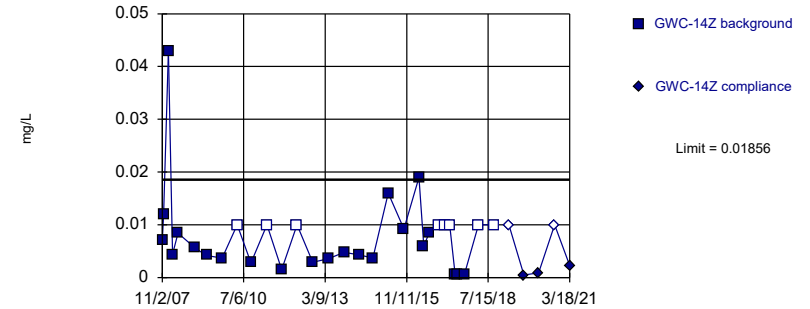


Background Data Summary (based on natural log transformation): Mean=4.769, Std. Dev.=0.511, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9189, critical = 0.904. Kappa = 1.694 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

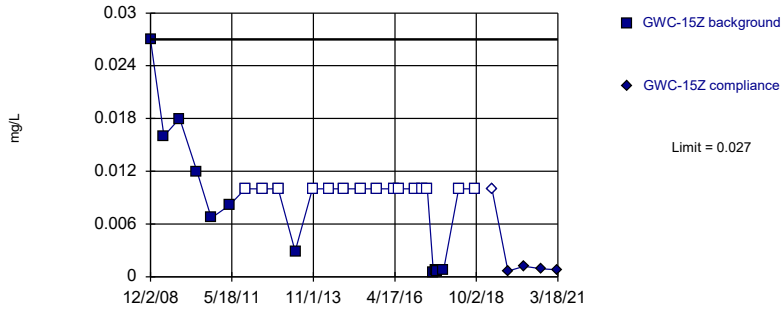


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07182, Std. Dev.=0.03787, n=31, 25.81% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.902. Kappa = 1.701 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

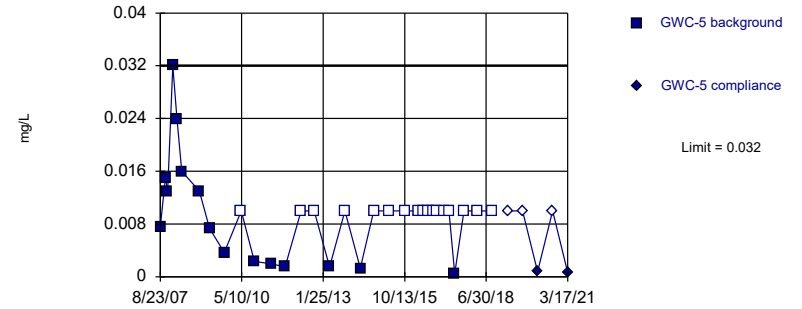


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 57.69% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

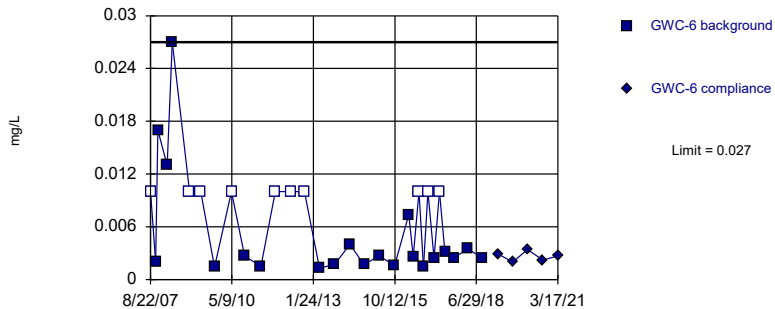


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

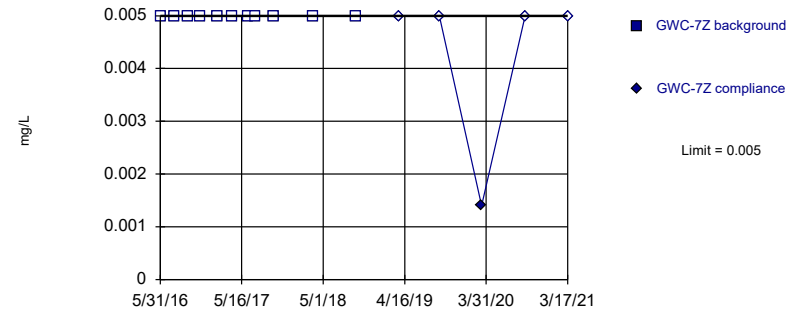


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 32.26% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

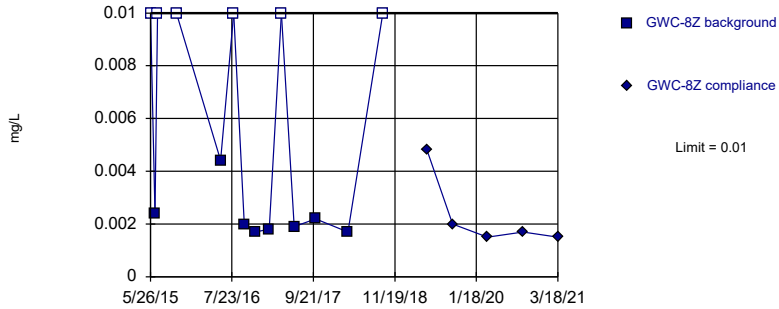


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

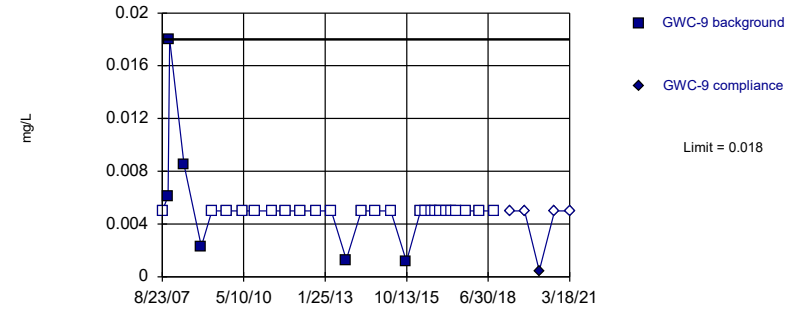


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

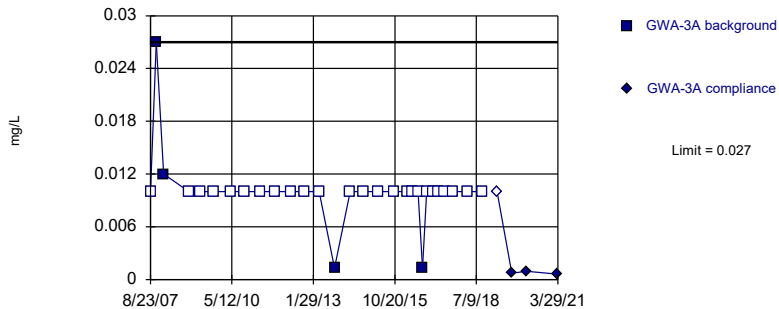


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.0003661. Individual comparison alpha = 0.0001831 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

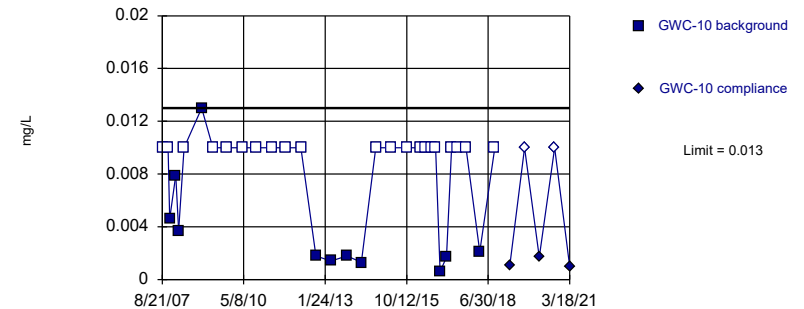


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 29 background values. 86.21% NDs. Well-constituent pair annual alpha = 0.0004147. Individual comparison alpha = 0.0002074 (1 of 3).

Constituent: Chromium Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

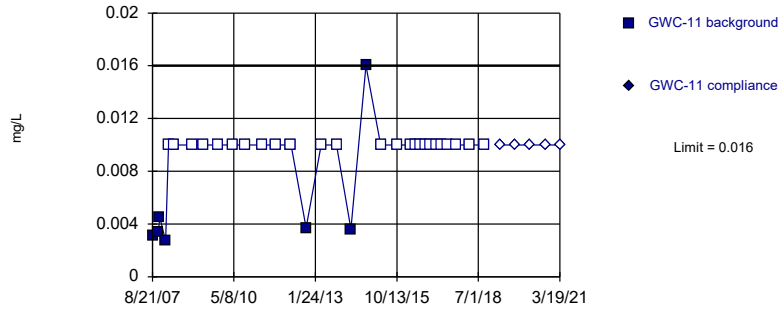


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 65.63% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

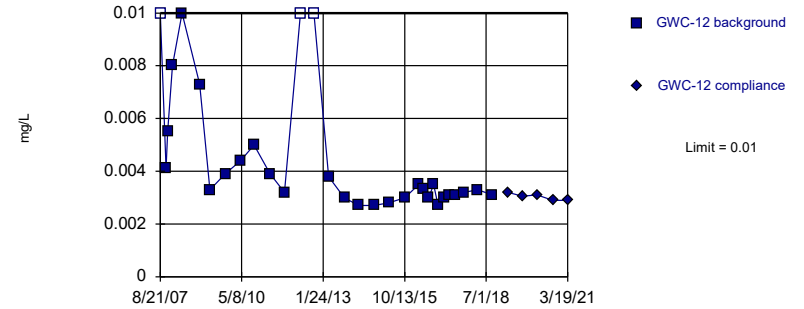


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

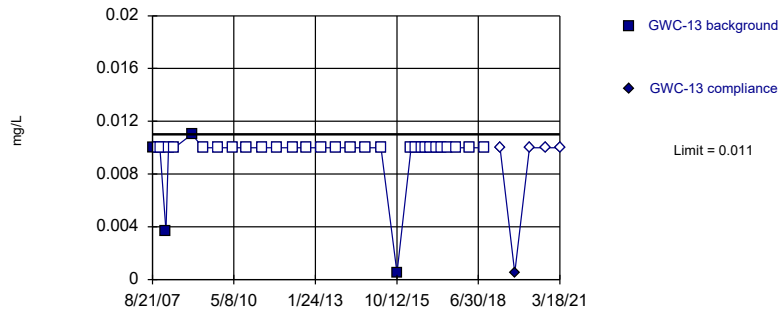


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 9.677% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

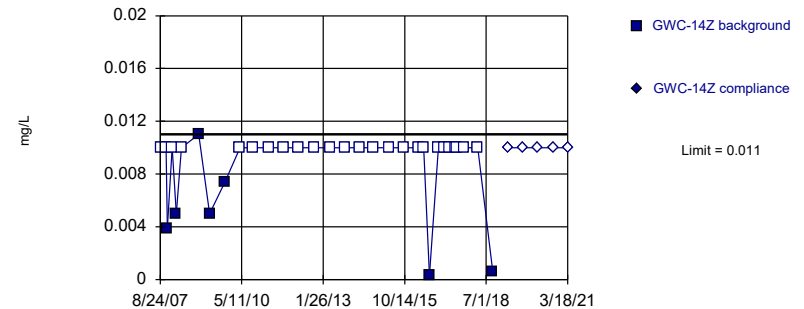


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

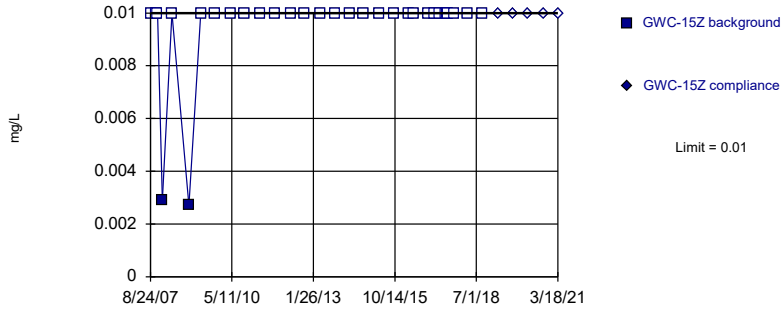


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

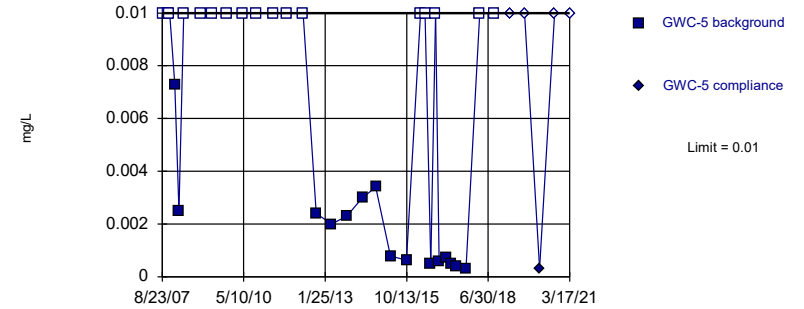


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

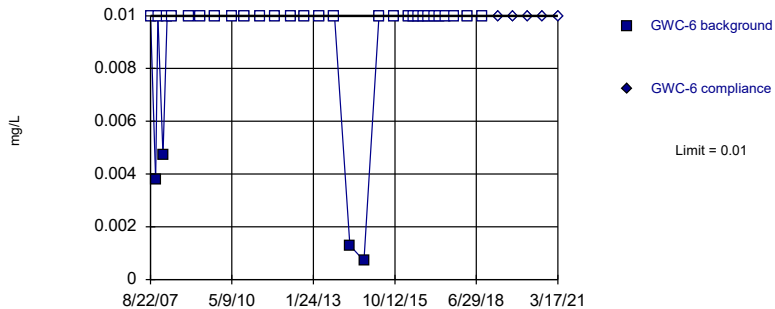


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

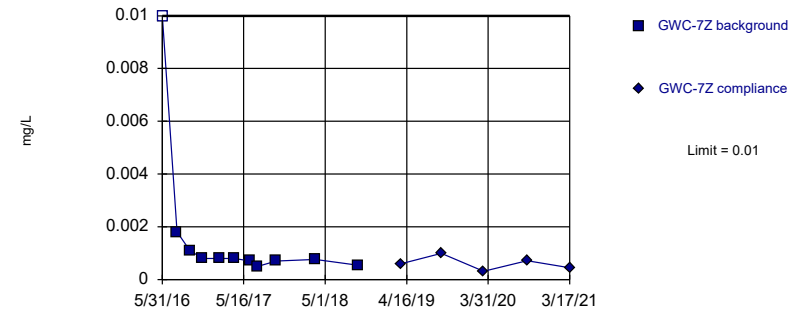


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

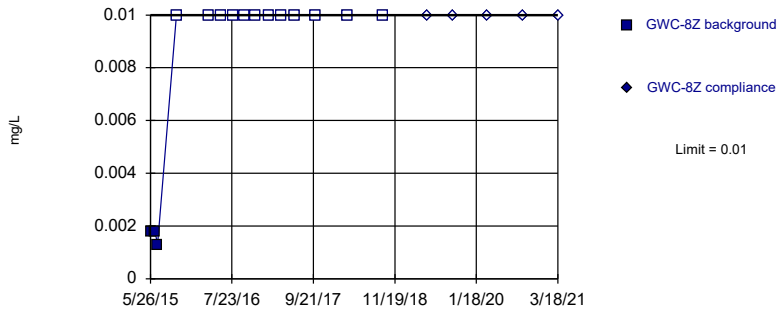


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 9.091% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

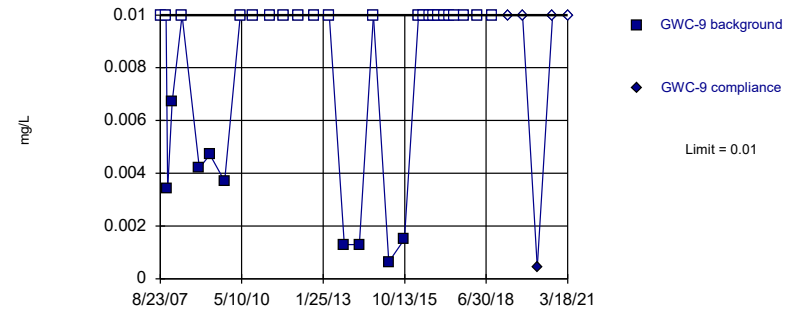


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

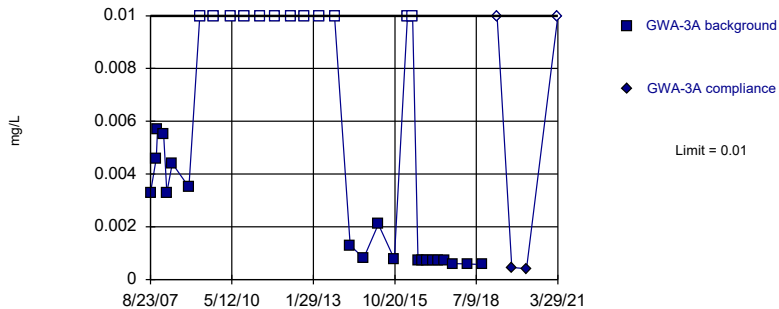


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 70.97% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

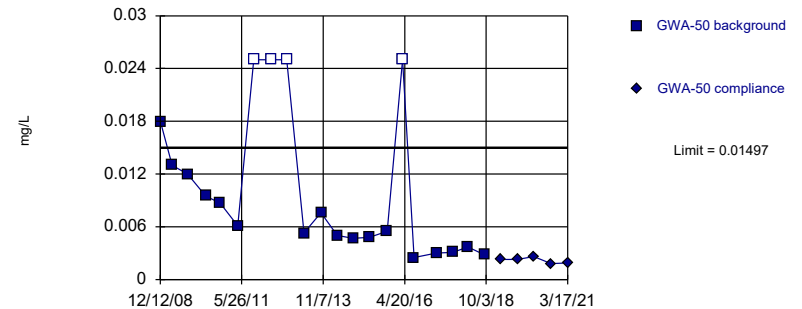


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Cobalt Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

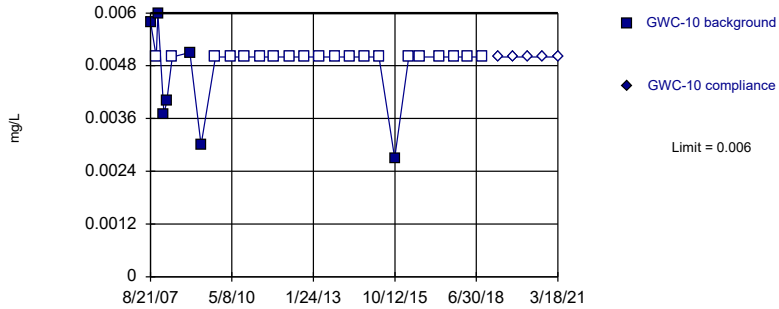


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1825, Std. Dev.=0.03515, n=21, 19.05% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.883, critical = 0.873. Kappa = 1.82 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

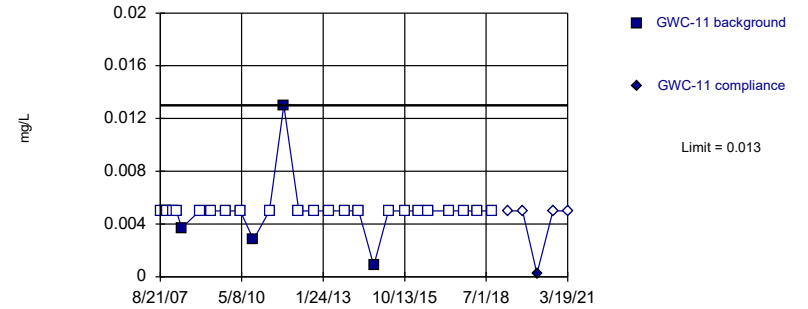


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

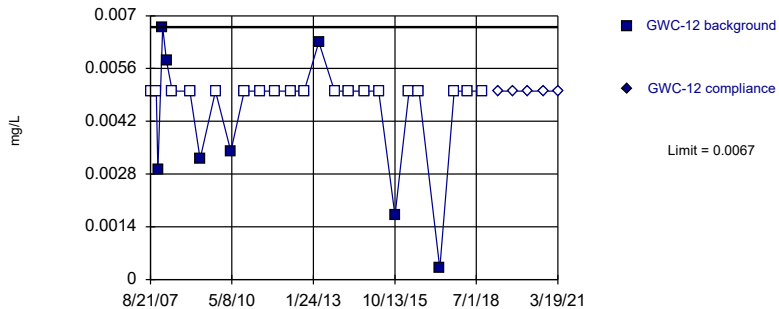


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

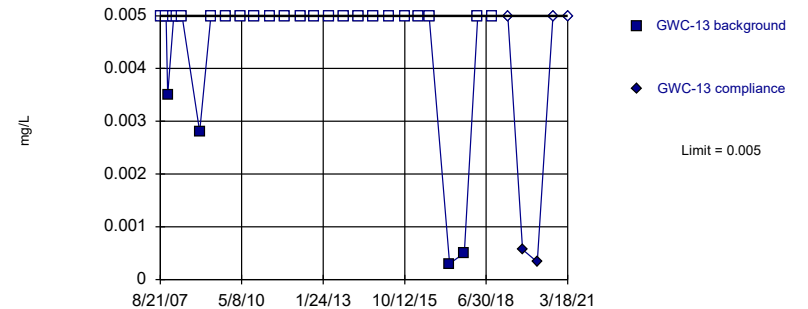


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

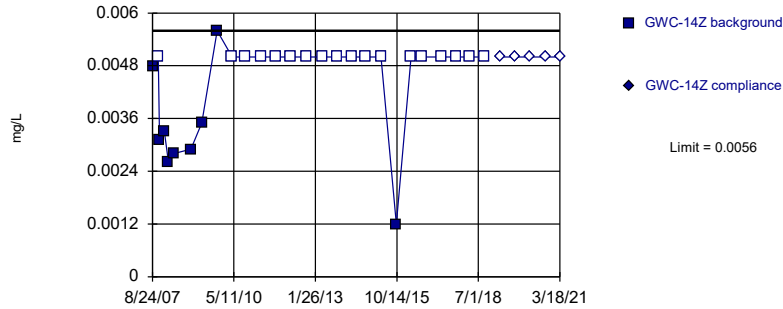


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

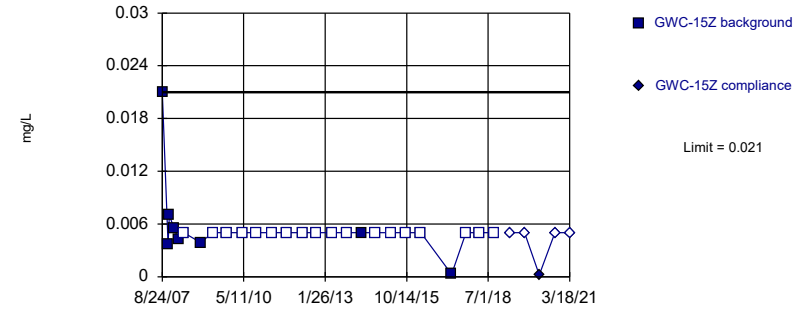


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

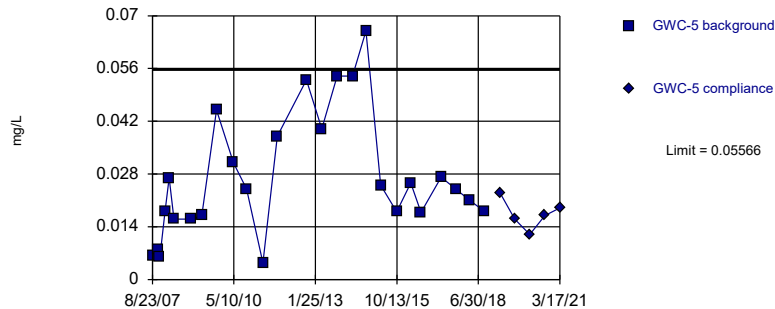


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

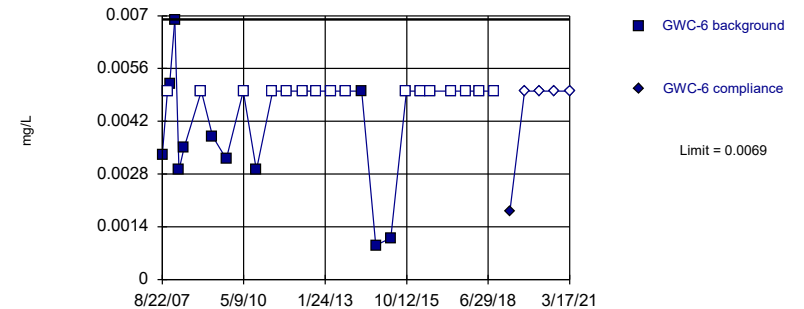


Background Data Summary: Mean=0.02693, Std. Dev.=0.01643, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.891. Kappa = 1.748 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

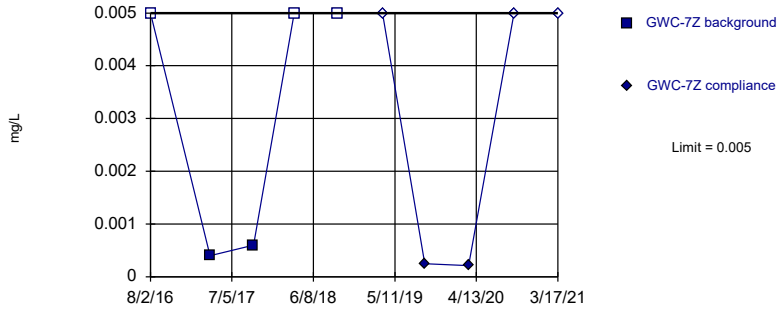


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

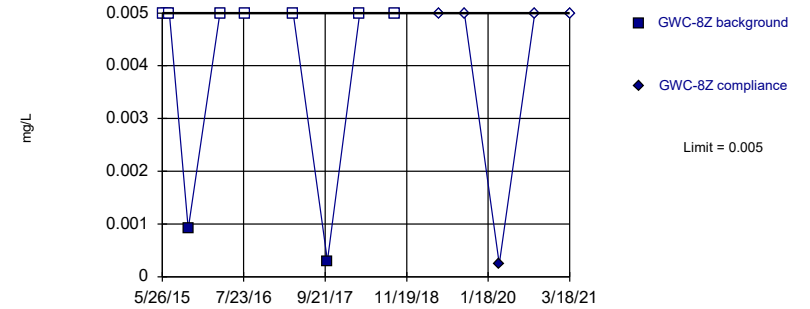


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

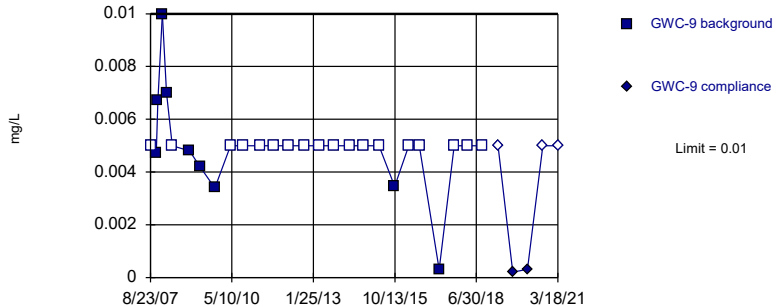


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

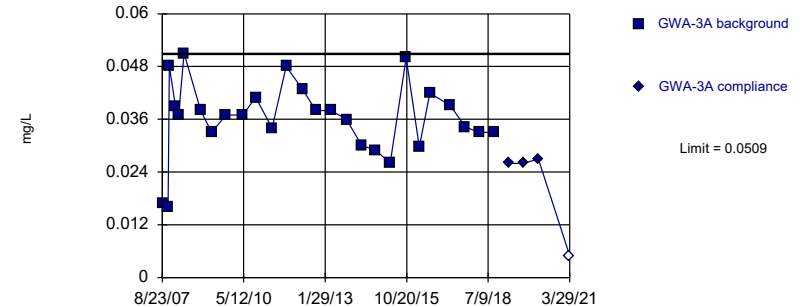


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

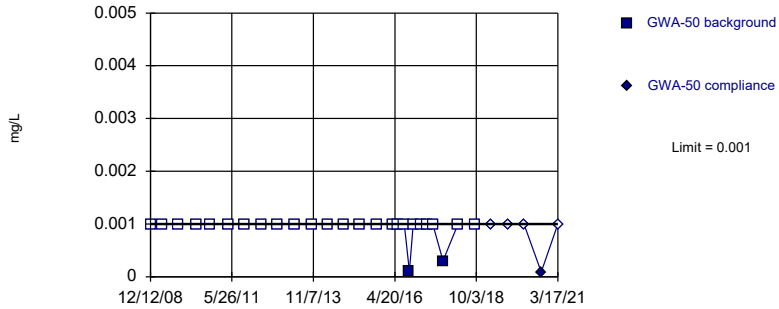


Background Data Summary: Mean=0.03618, Std. Dev.=0.008473, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

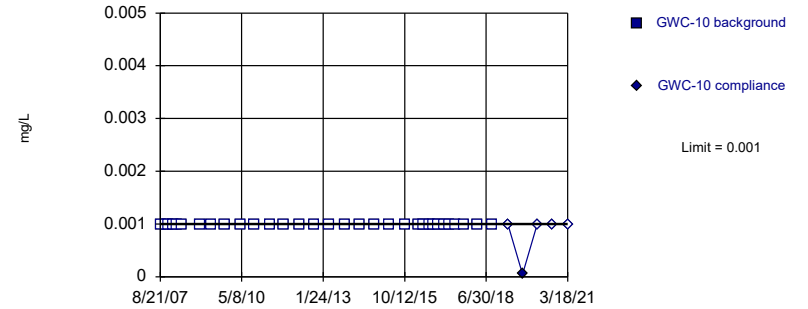


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

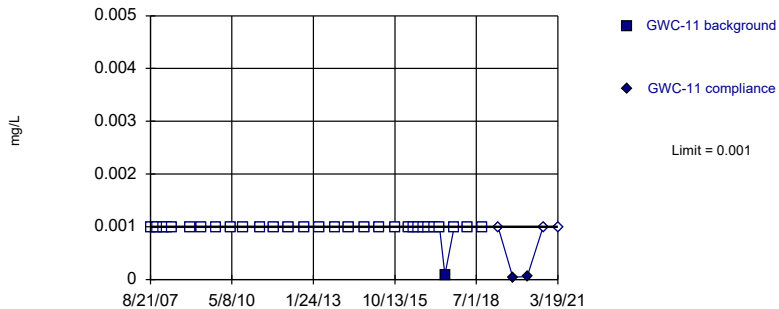


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

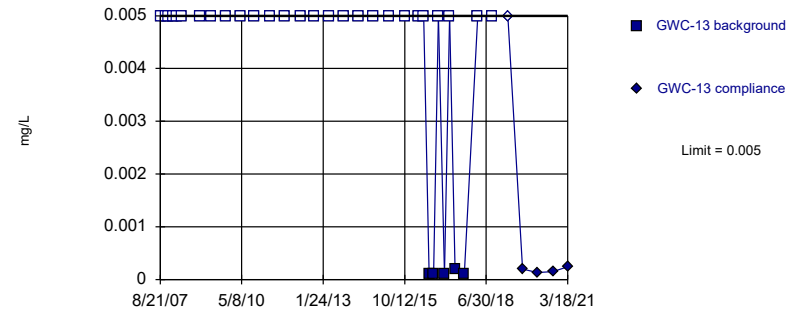


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:27 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

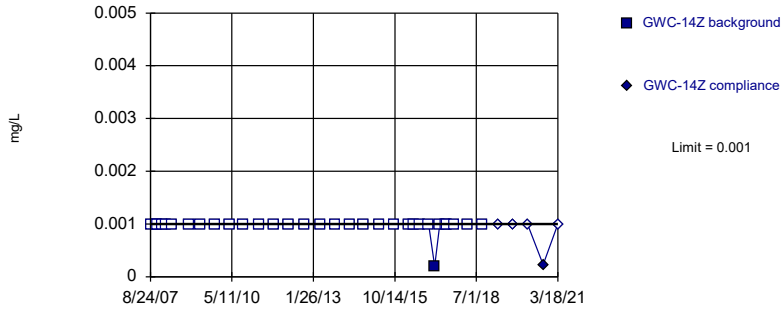


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

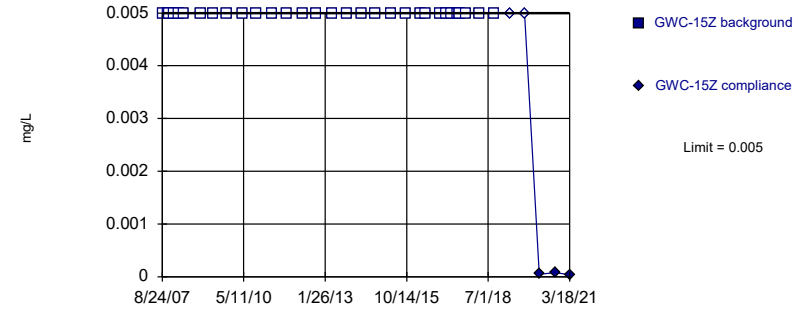


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

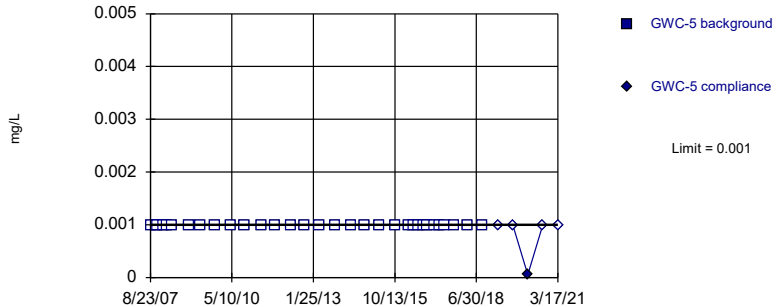


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

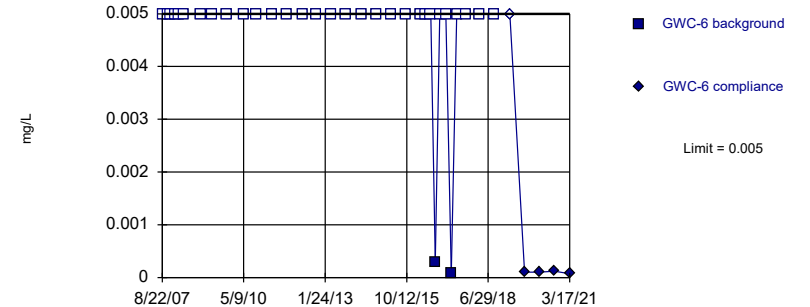


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

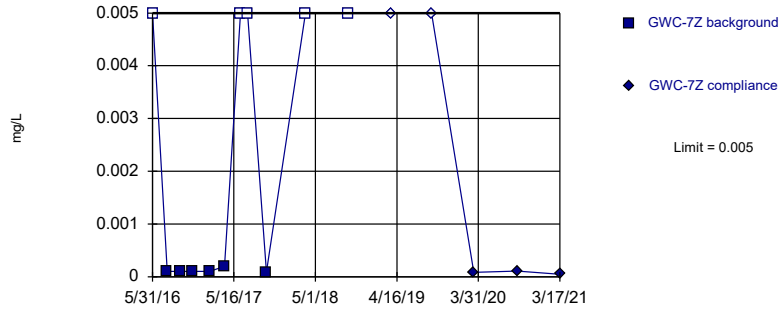


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

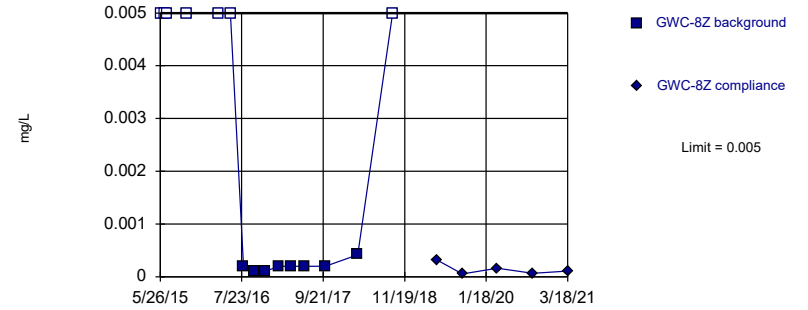


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

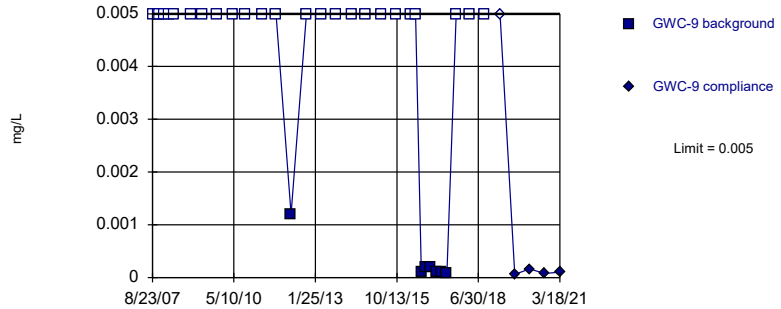


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

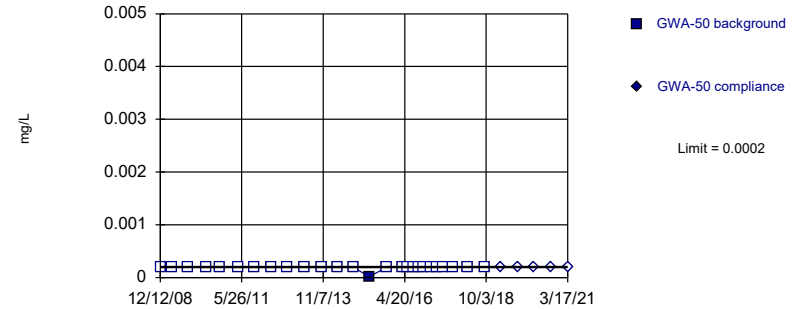


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Lead Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

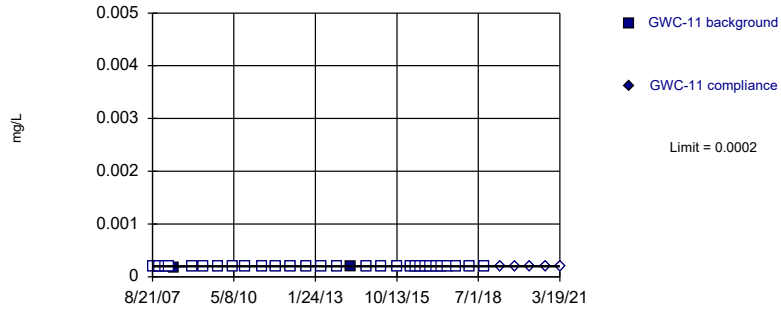


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

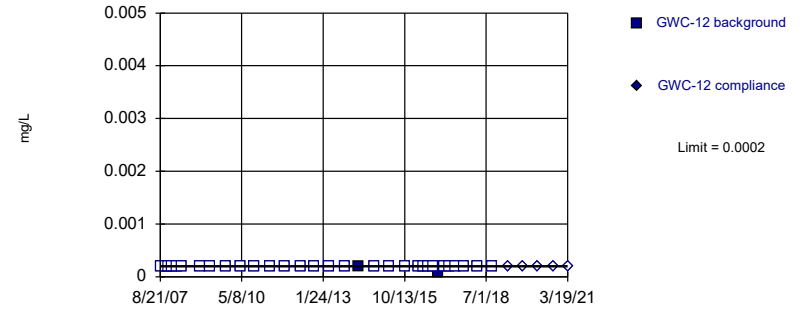


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

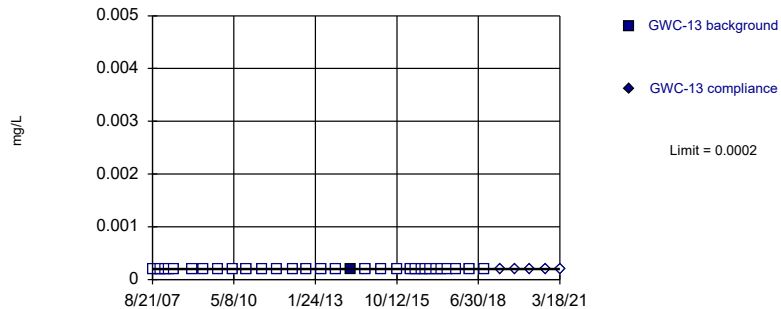


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

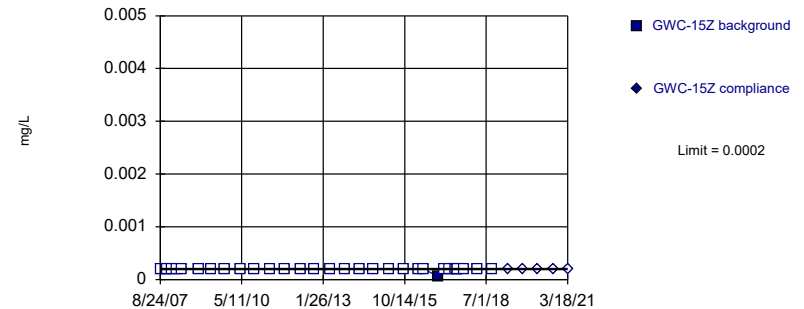


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

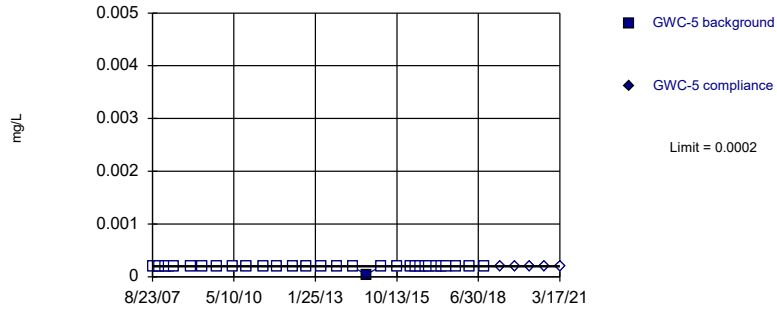


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

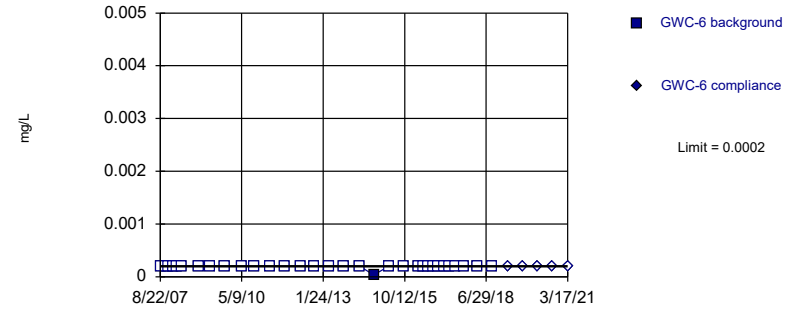


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

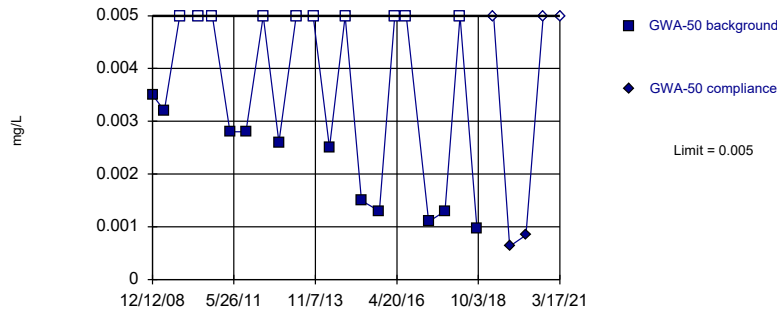


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Mercury Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

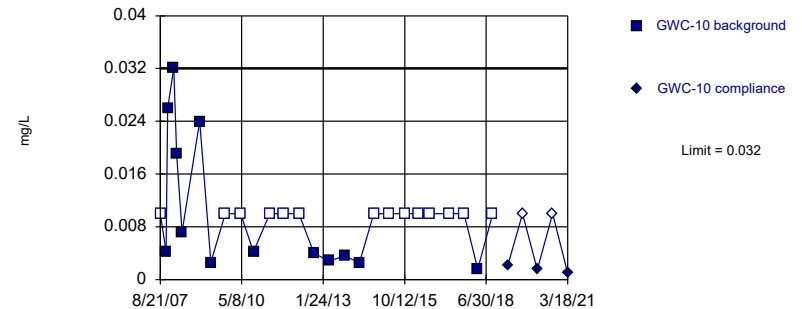


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 47.62% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

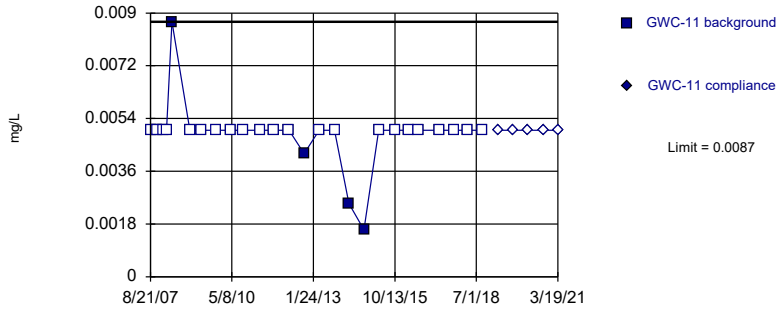


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 51.85% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

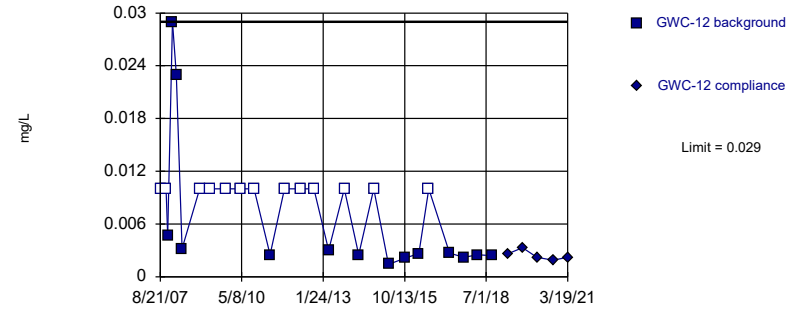


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

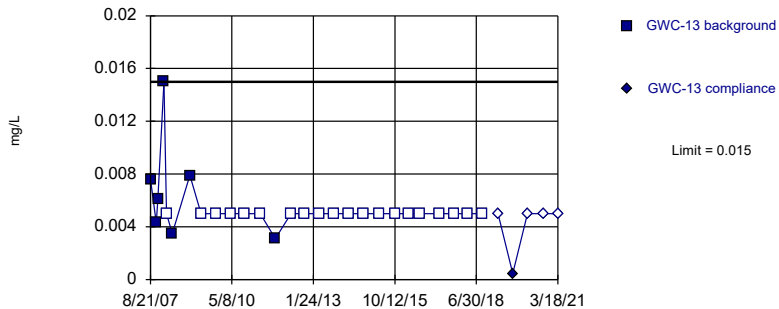


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

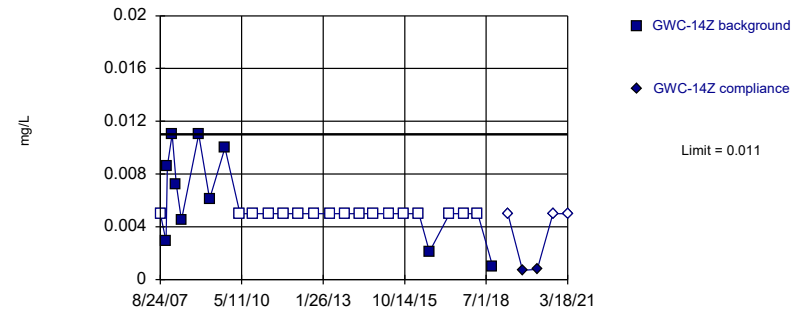


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

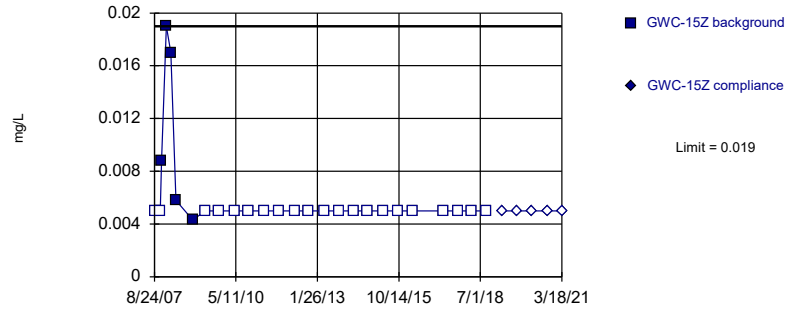


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

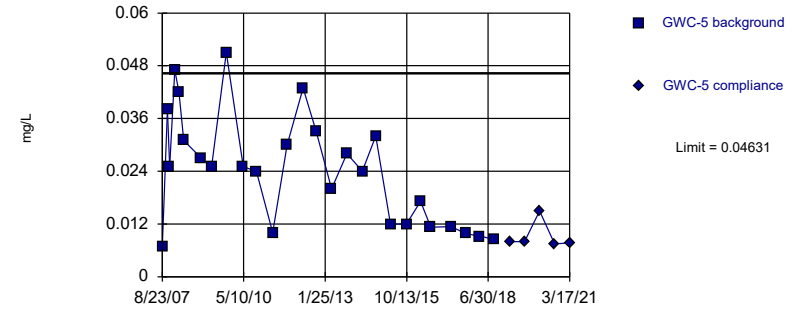


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

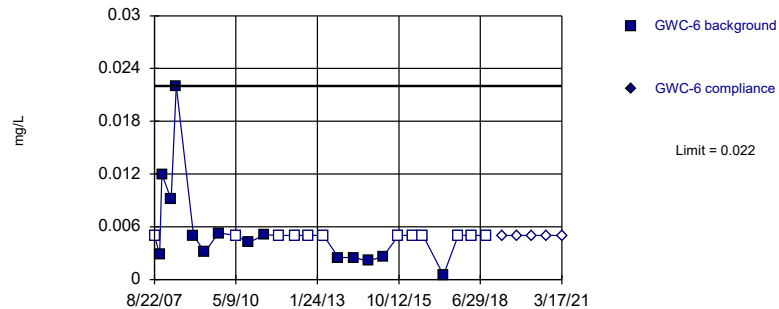


Background Data Summary: Mean=0.02419, Std. Dev.=0.01273, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

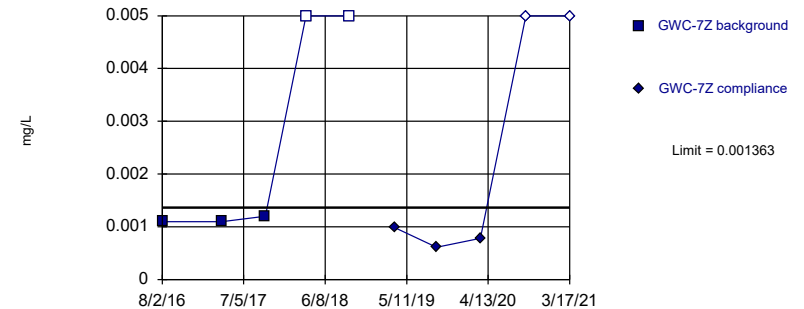


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 46.15% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

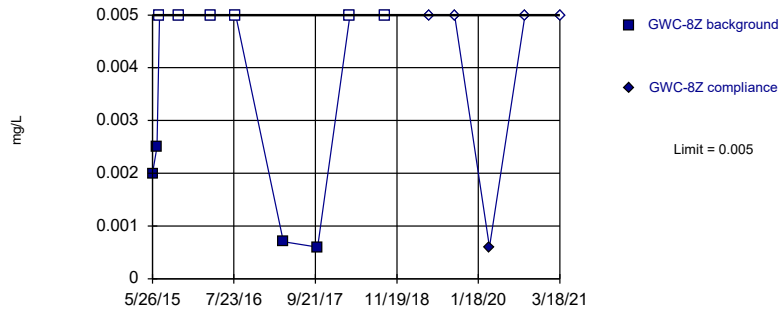


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001133, Std. Dev.=0.00004714, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.6955, critical = 0.686. Kappa = 4.875 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

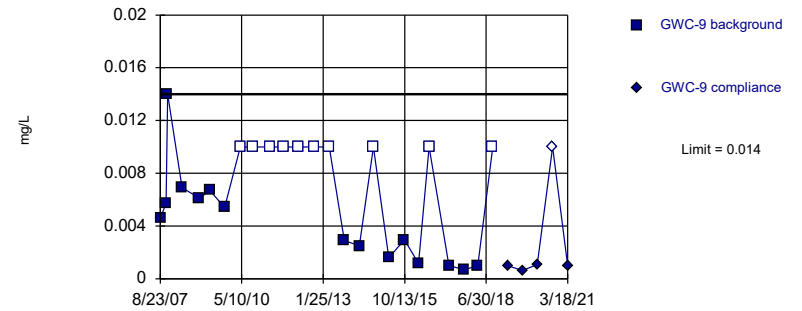


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

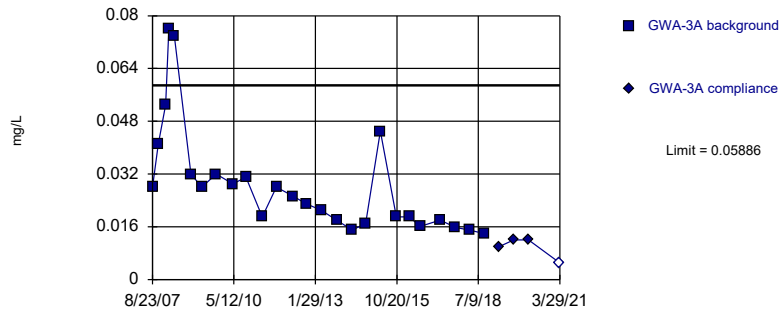


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 40% NDs. Well-constituent pair annual alpha = 0.0006091. Individual comparison alpha = 0.0003046 (1 of 3).

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

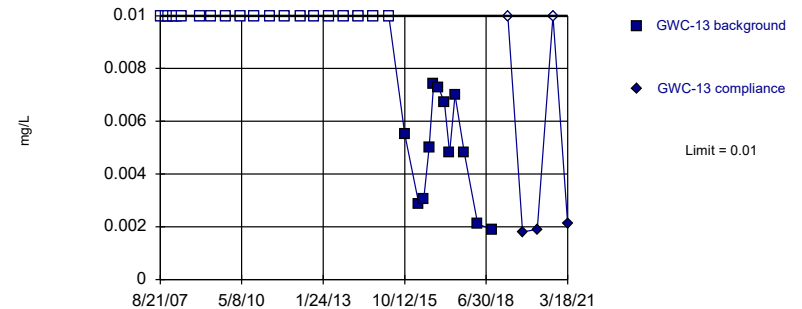


Background Data Summary (based on natural log transformation): Mean=-3.665, Std. Dev.=0.4764, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.91, critical = 0.891. Kappa = 1.748 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

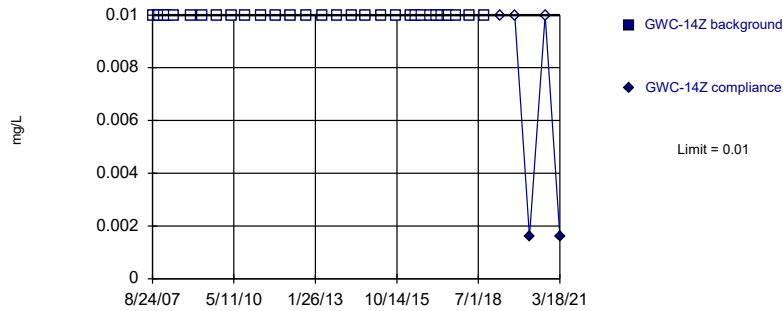


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Selenium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

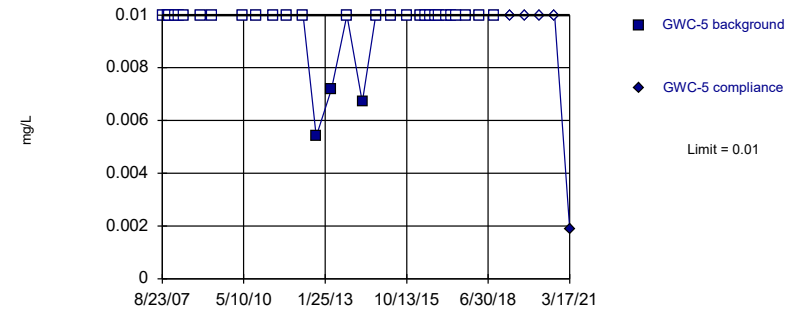


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Selenium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

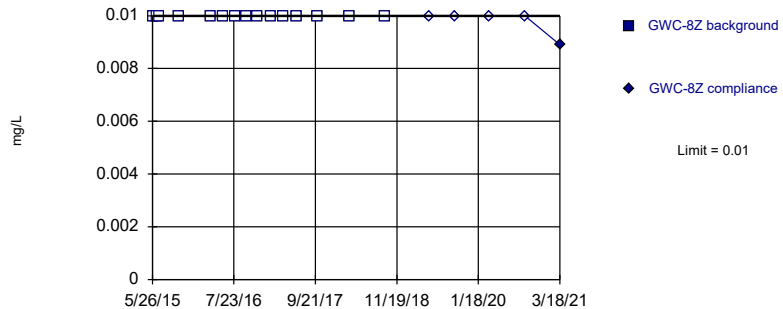


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.0003403. Individual comparison alpha = 0.0001701 (1 of 3).

Constituent: Selenium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

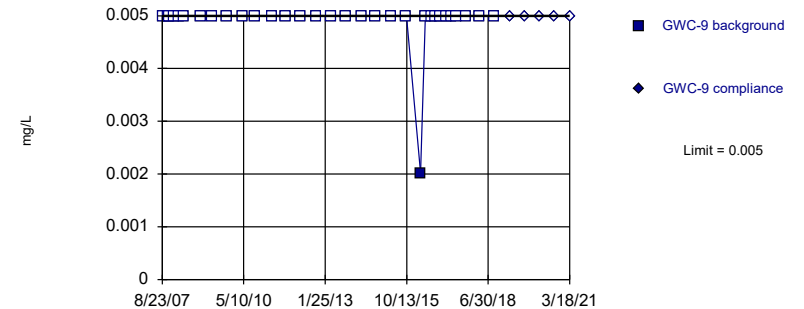


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002624. Individual comparison alpha = 0.001313 (1 of 3).

Constituent: Selenium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

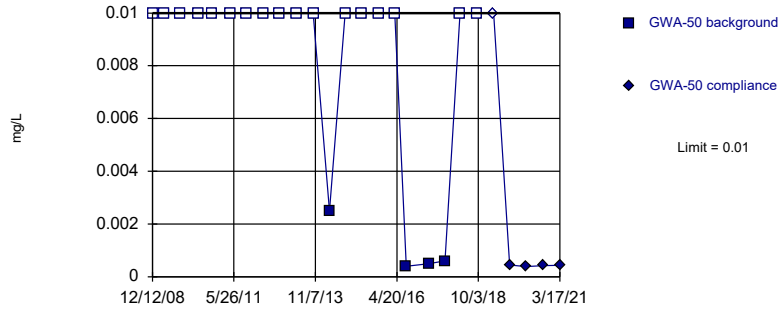


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.0003144. Individual comparison alpha = 0.0001572 (1 of 3).

Constituent: Selenium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

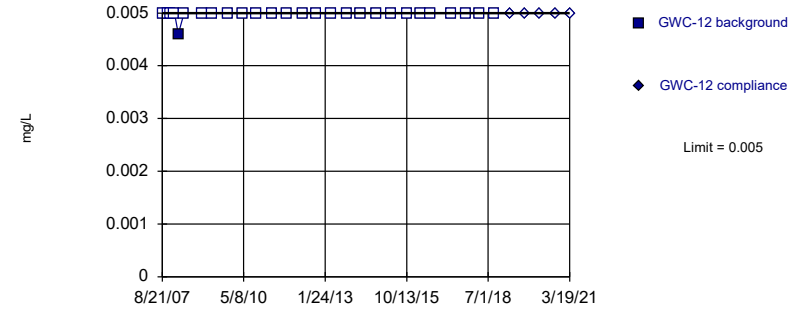


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 80.95% NDs. Well-constituent pair annual alpha = 0.001022. Individual comparison alpha = 0.000511 (1 of 3).

Constituent: Silver Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

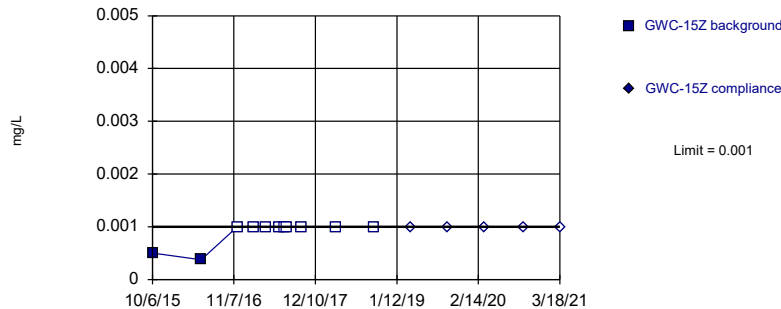


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Silver Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

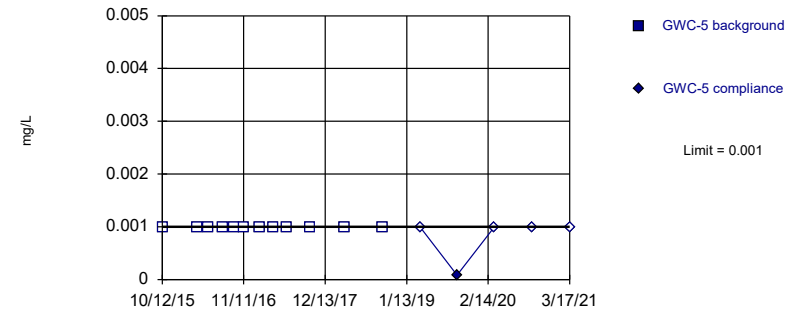


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

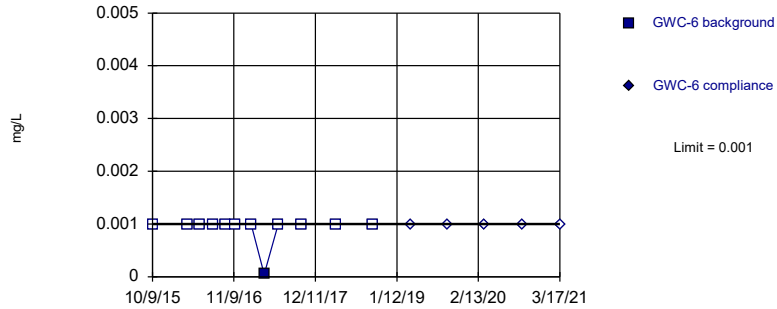


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

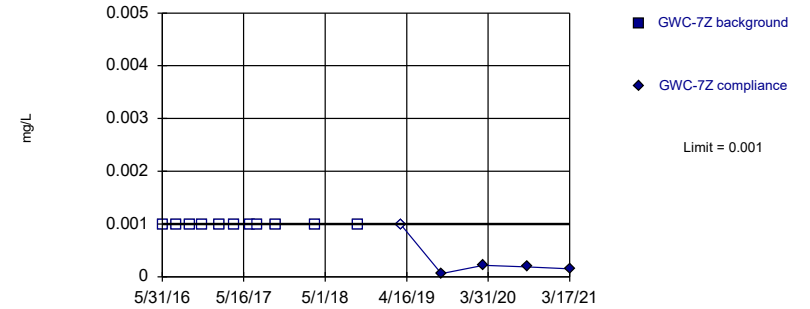


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

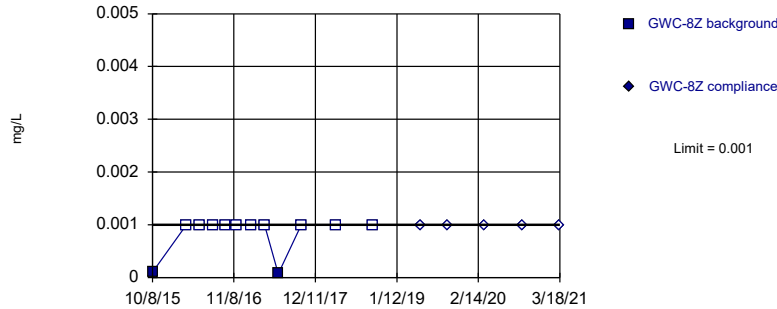


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

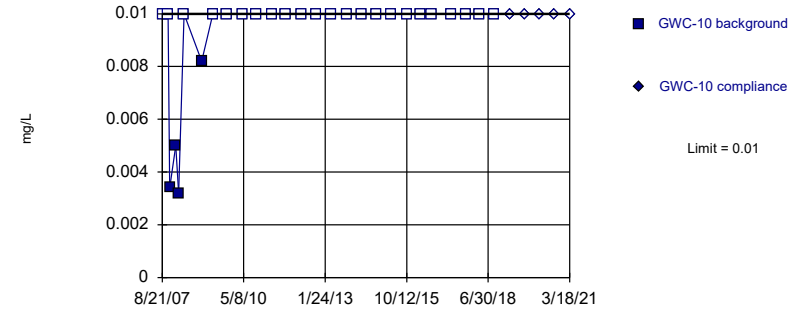


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Thallium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

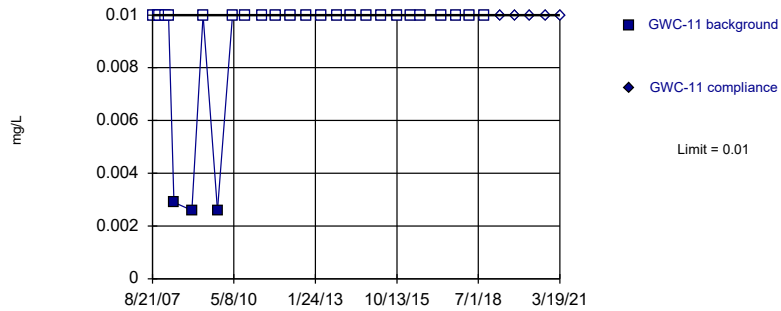


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

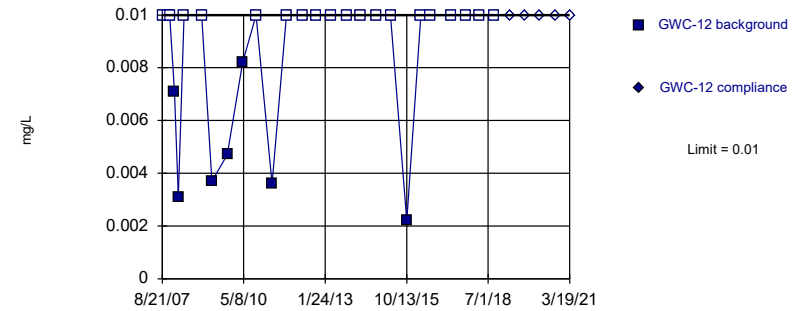


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

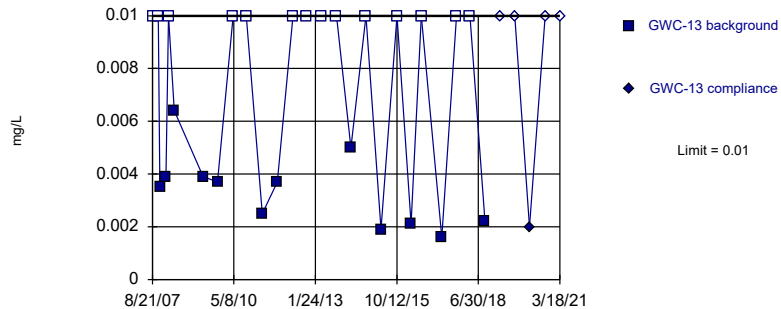


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

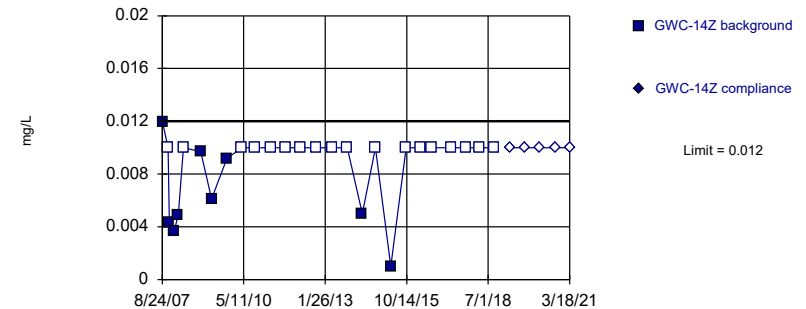


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.0005605. Individual comparison alpha = 0.0002803 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

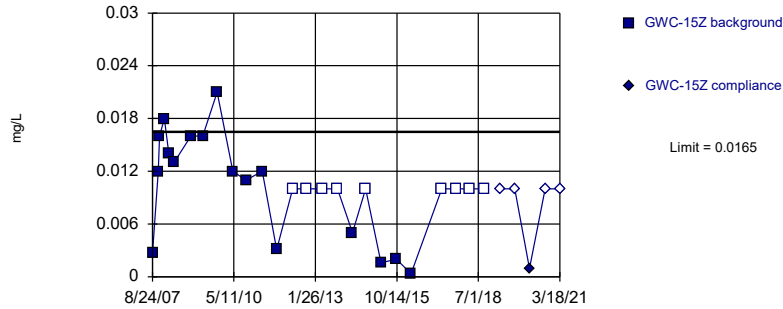


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

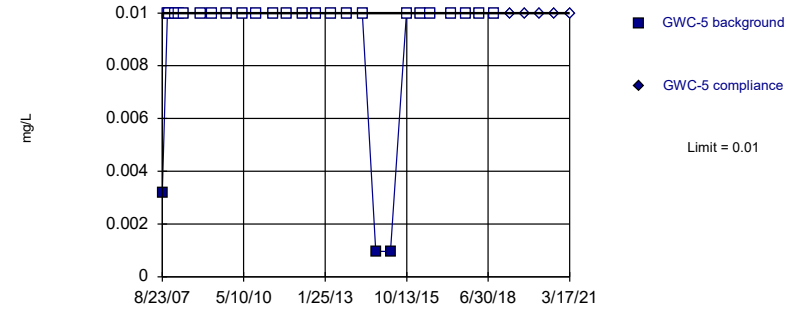


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006028, Std. Dev.=0.005988, n=26, 34.62% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9325, critical = 0.891. Kappa = 1.748 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

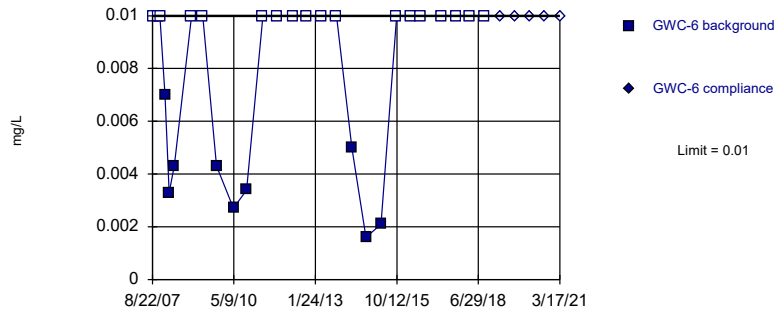


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

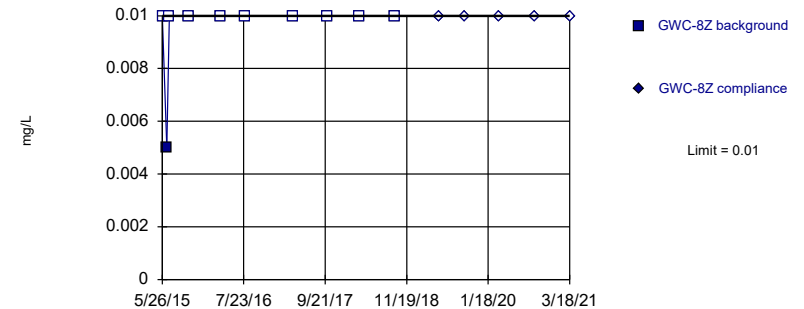


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

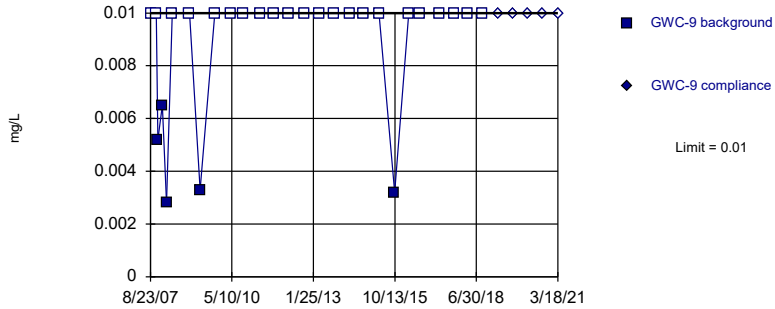


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

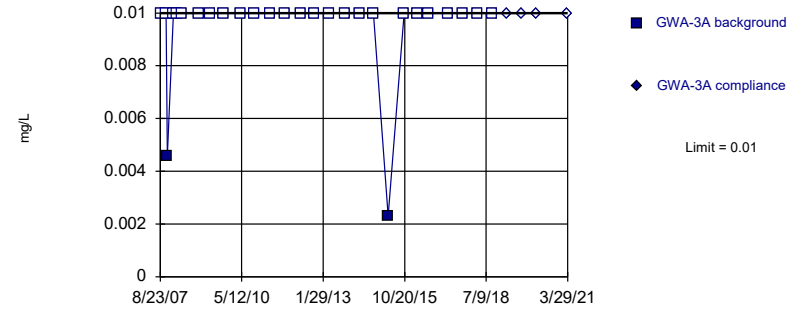


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

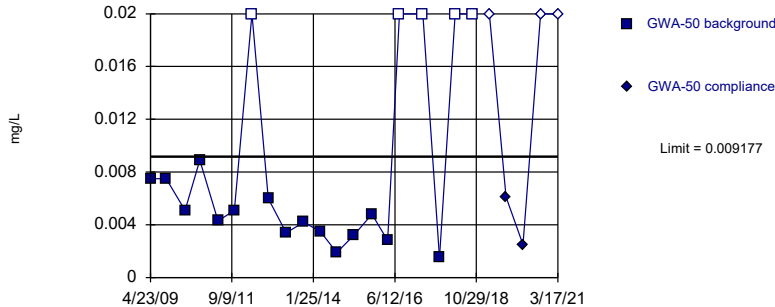


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Vanadium Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

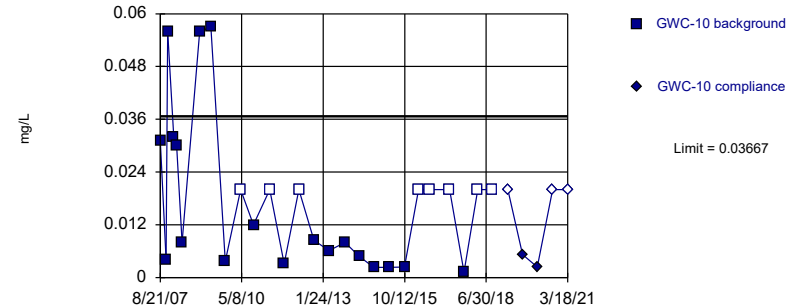


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.563, Std. Dev.=0.4751, n=20, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.868. Kappa = 1.836 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

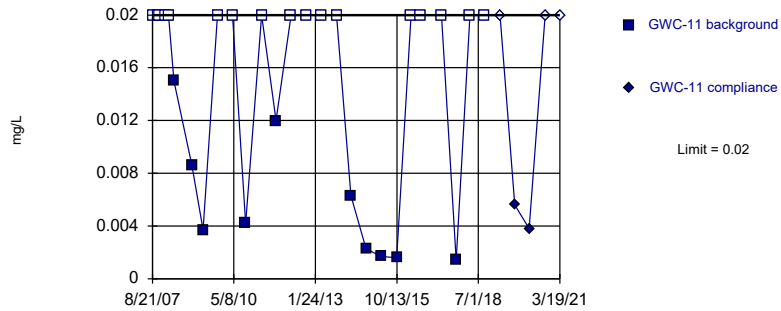


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.09035, Std. Dev.=0.0582, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9161, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

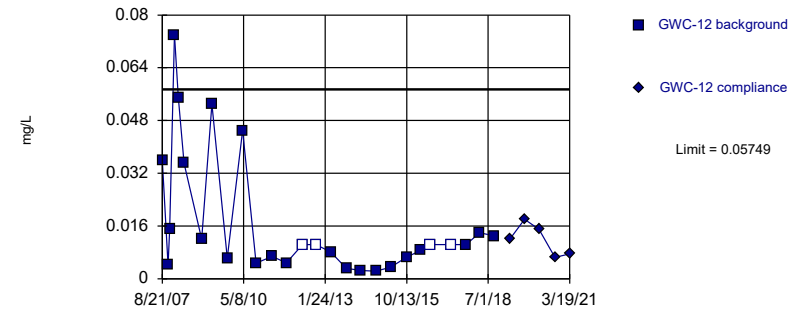


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.0005119. Individual comparison alpha = 0.000256 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

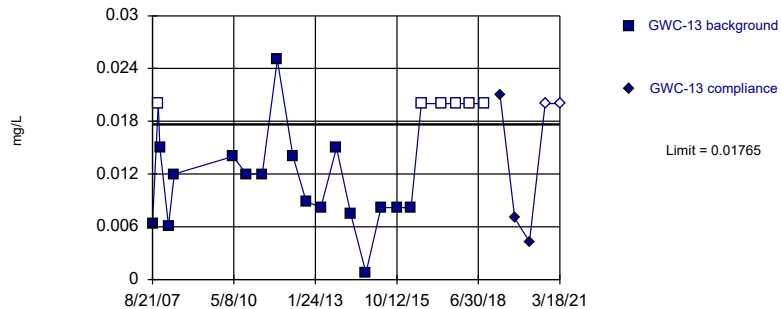


Background Data Summary (based on natural log transformation): Mean=-4.541, Std. Dev.=0.9693, n=27, 14.81% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

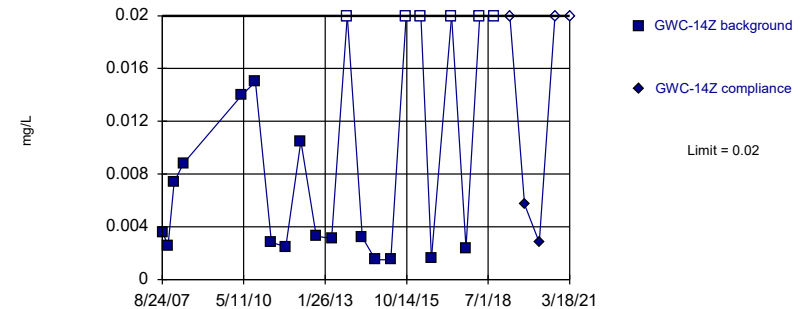


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.008589, Std. Dev.=0.005062, n=23, 26.09% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9429, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

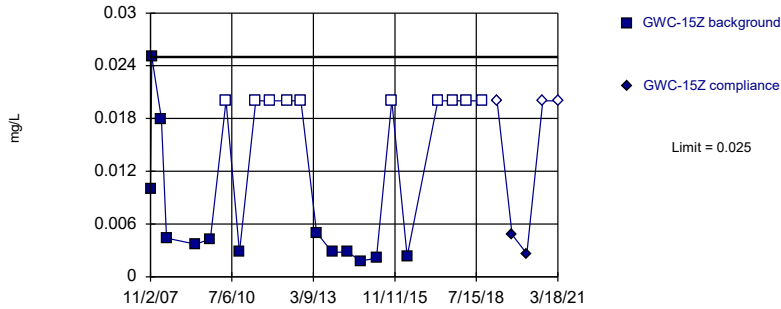


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

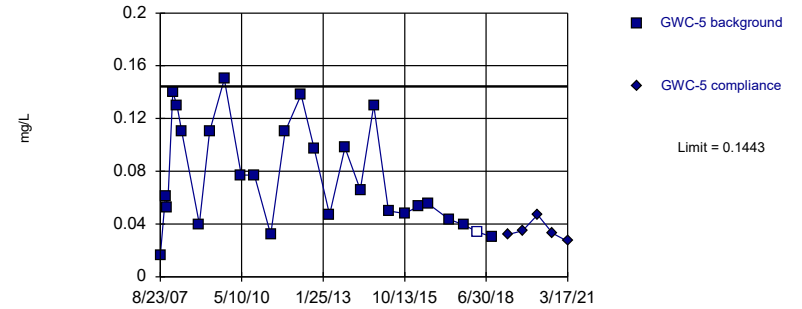


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 43.48% NDs. Well-constituent pair annual alpha = 0.0008155. Individual comparison alpha = 0.0004078 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

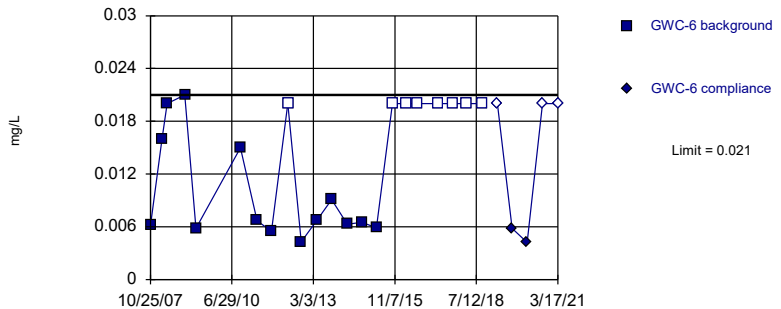


Background Data Summary: Mean=0.07538, Std. Dev.=0.03964, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9153, critical = 0.894. Kappa = 1.738 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

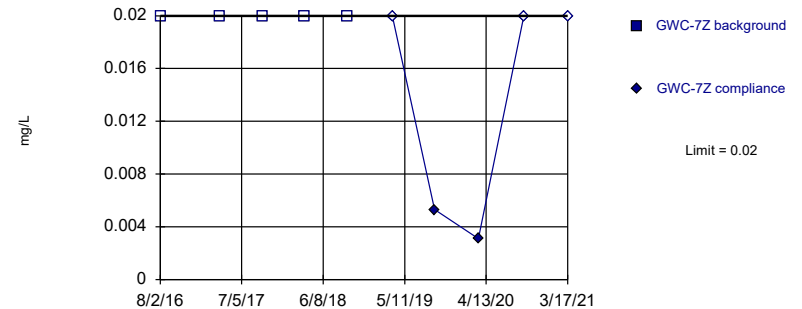


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.0009186. Individual comparison alpha = 0.0004594 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

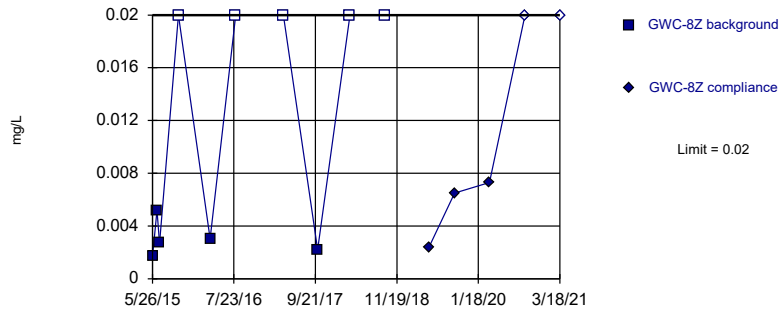


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 5) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

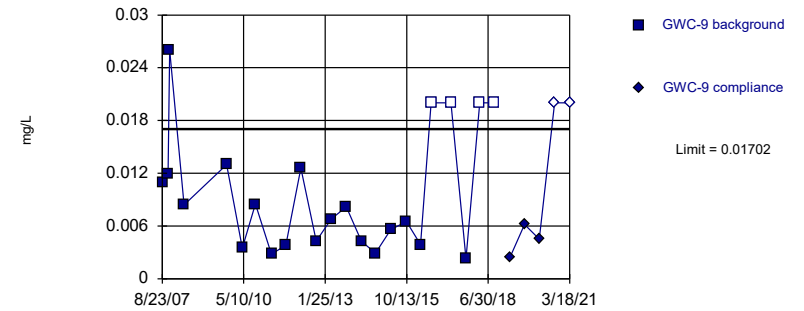


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

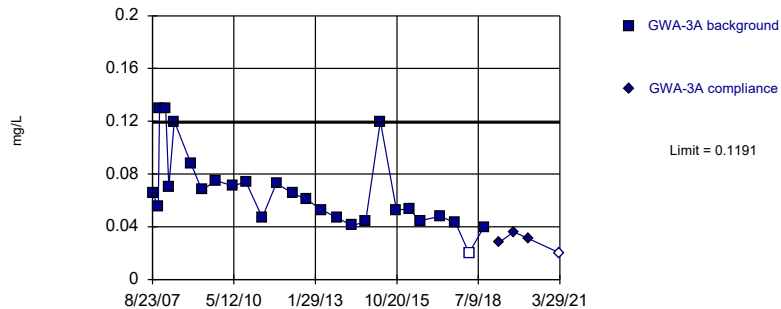


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.08208, Std. Dev.=0.02704, n=23, 17.39% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.881. Kappa = 1.789 (c=16, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 4/30/2021 11:28 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=0.2529, Std. Dev.=0.05307, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9211, 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 4/30/2021 11:28 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.003
3/17/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.00091 (J)
3/19/2021		0.00032 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
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	
5/12/2008	<0.003	
12/13/2008	<0.003	
4/28/2009	<0.003	
10/21/2009	<0.003	
4/28/2010	<0.003	
10/5/2010	<0.003	
4/19/2011	<0.003	
10/18/2011	<0.003	
4/25/2012	<0.003	
10/2/2012	<0.003	
4/2/2013	<0.003	
10/8/2013	<0.003	
4/1/2014	<0.003	
10/1/2014	<0.003	
4/1/2015	<0.003	
10/15/2015	<0.003	
4/4/2016	<0.003	
5/31/2016	<0.003	
8/4/2016	<0.003	
9/29/2016	<0.003	
11/28/2016	<0.003	
2/9/2017	<0.003	
4/12/2017	<0.003	
6/16/2017	<0.003	
10/9/2017	<0.003	
3/21/2018	<0.003	
9/19/2018	<0.003	
3/23/2019		<0.003
9/18/2019		0.0012 (J)
3/13/2020		0.0023 (J)
9/22/2020		<0.003
3/18/2021		0.00078 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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)
9/21/2020		<0.003
3/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		<0.003
3/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.003
3/17/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.003
3/17/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.0012 (J)
3/17/2021		0.00099 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.003
3/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		0.0065
3/19/2021		0.0052

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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)
9/22/2020		0.00098 (J)
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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)
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.005
3/17/2021		0.0013 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.005
3/18/2021		0.00082 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
8/23/2007	<0.005	
11/2/2007	<0.005	
11/18/2007	<0.005	
1/31/2008	<0.005	
3/11/2008	<0.005	
5/14/2008	<0.005	
12/5/2008	<0.005	
4/15/2009	<0.005	
10/8/2009	<0.005	
4/28/2010	<0.005	
10/6/2010	<0.005	
4/21/2011	<0.005	
10/13/2011	<0.005	
5/1/2012	<0.005	
10/9/2012	<0.005	
4/11/2013	<0.005	
10/16/2013	<0.005	
4/23/2014	<0.005	
10/4/2014	<0.005	
3/31/2015	<0.005	
10/12/2015	<0.005	
3/23/2016	<0.005	
5/23/2016	<0.005	
7/29/2016	<0.005	
9/22/2016	<0.005	
11/10/2016	<0.005	
1/31/2017	<0.005	
3/30/2017	<0.005	
6/12/2017	<0.005	
10/4/2017	<0.005	
3/19/2018	<0.005	
9/17/2018	<0.005	
3/20/2019		<0.005
9/13/2019		<0.005
3/11/2020		<0.005
3/29/2021		0.001 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.0081 (J)
3/17/2021		0.0074

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		0.013
3/18/2021		0.025

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.0093 (J)
3/19/2021		0.011

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		0.023
3/19/2021		0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/22/2020		0.027
3/18/2021		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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	
10/22/2013	0.033	
4/21/2014	0.033	
9/30/2014	0.027	
4/3/2015	0.13 (o)	
10/7/2015	0.047	
4/5/2016	0.0279	
6/1/2016	0.0249	
8/9/2016	0.0268	
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
9/21/2020		0.013
3/18/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		0.013
3/18/2021		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		0.013
3/17/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.0074 (J)
3/17/2021		0.0075

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		0.02
3/17/2021		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		0.025
3/18/2021		0.018

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		0.031
3/18/2021		0.041

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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)
3/29/2021		0.0073

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		<0.003
3/18/2021		0.0001 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
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		5.7E-05 (J)
9/17/2019		<0.0005
3/12/2020		<0.0005
9/21/2020		<0.0005
3/19/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/22/2020		<0.003
3/18/2021		7E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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)
9/21/2020		9.5E-05 (J)
3/18/2021		0.00012 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.00069 (J)
3/17/2021		0.00061

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.0005	
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	6.6E-05 (J)	
9/17/2018	<0.0005	
3/21/2019		<0.0005
9/16/2019		<0.0005
3/12/2020		<0.0005
9/16/2020		<0.0005
3/17/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		4.9E-05 (J)
3/18/2021		8.5E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		4.8E-05 (J)
3/18/2021		0.00016 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.001
3/17/2021		0.00012 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.00025 (J)
3/19/2021		0.00027 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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	
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
9/16/2020		<0.001
3/17/2021		0.00013 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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	0.0014	
4/14/2011	0.0014	
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	0.0013 (J)	
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	<0.005	
11/10/2016	<0.005	
1/30/2017	<0.005	
4/7/2017	<0.005	
6/12/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/17/2018	<0.005	
3/19/2019		<0.005
9/13/2019		<0.005
3/11/2020		0.0011 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		0.0011 (J)
3/18/2021		0.00068 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.0081 (J)
3/19/2021		0.0073

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
11/19/2007	0.0056	
1/16/2008	0.039	
3/5/2008	0.03	
5/13/2008	0.0057	
12/13/2008	<0.005	
4/16/2009	<0.005	
10/21/2009	0.0015	
4/27/2010	0.0036	
10/5/2010	<0.005	
4/19/2011	0.003	
10/12/2011	<0.005	
4/24/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	0.0018	
10/9/2013	<0.005	
4/1/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	<0.005	
10/14/2015	<0.005	
4/4/2016	<0.005	
5/27/2016	<0.005	
8/3/2016	<0.005	
9/30/2016	<0.005	
11/22/2016	<0.005	
2/13/2017	<0.005	
4/11/2017	<0.005	
6/14/2017	<0.005	
10/4/2017	<0.005	
3/22/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		0.0058 (D)
3/12/2020		<0.005
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/22/2020		0.0062 (J)
3/18/2021		0.0058

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-14Z
8/24/2007	0.083 (o)	
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)
9/21/2020		<0.01
3/18/2021		0.0023 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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)
9/21/2020		0.00089 (J)
3/18/2021		0.00078 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.01
3/17/2021		0.00069 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.0022 (J)
3/17/2021		0.0027 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
9/27/2016	<0.005	
11/21/2016	<0.005	
2/1/2017	<0.005	
4/6/2017	<0.005	
6/13/2017	<0.005	
7/14/2017	<0.005	
10/3/2017	<0.005	
3/20/2018	<0.005	
9/18/2018	<0.005	
3/21/2019		<0.005
9/13/2019		<0.005
3/12/2020		0.0014 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		0.0017 (J)
3/18/2021		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 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	0.0061	
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	<0.005	
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	0.0013	
4/9/2014	<0.005	
9/30/2014	<0.005	
4/2/2015	<0.005	
10/10/2015	0.00115 (D)	
3/30/2016	<0.005	
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		<0.005
3/12/2020		0.00045 (J)
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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)
3/29/2021		0.00062 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		<0.01
3/18/2021		0.001 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.0029 (J)
3/19/2021		0.0029 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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
9/22/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
5/31/2016	<0.01	
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)
9/16/2020		0.00072 (J)
3/17/2021		0.00045 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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)
3/29/2021		<0.01

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.0018 (J)
3/17/2021		0.0019 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
11/20/2007	0.006	
1/30/2008	0.0037	
3/6/2008	0.004	
5/12/2008	<0.005	
12/13/2008	0.0051	
4/29/2009	0.003	
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	0.0027 (J)	
3/31/2016	<0.005	
8/5/2016	<0.005	
4/10/2017	<0.005	
10/4/2017	<0.005	
3/20/2018	<0.005	
9/18/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/12/2020		<0.005
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	0.0037	
12/14/2008	<0.005	
4/29/2009	<0.005	
10/22/2009	<0.005	
4/21/2010	<0.005	
9/28/2010	0.0028	
4/12/2011	<0.005	
10/4/2011	0.013	
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	0.00084 (J)	
4/1/2015	<0.005	
10/11/2015	<0.005	
4/4/2016	<0.005	
8/3/2016	<0.005	
4/10/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005
3/12/2020		0.00023 (J)
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	0.0029	
1/16/2008	0.0067	
3/5/2008	0.0058	
5/13/2008	<0.005	
12/13/2008	<0.005	
4/16/2009	0.0032	
10/21/2009	<0.005	
4/27/2010	0.0034	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/12/2011	<0.005	
4/24/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	0.0063	
10/9/2013	<0.005	
4/1/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	<0.005	
10/14/2015	0.0017 (J)	
4/4/2016	<0.005	
8/3/2016	<0.005	
4/11/2017	0.0003 (J)	
10/4/2017	<0.005	
3/22/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005 (D)
3/12/2020		<0.005
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	0.0035	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/12/2008	<0.005	
12/13/2008	0.0028	
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	
8/4/2016	<0.005	
4/12/2017	0.0003 (J)	
10/9/2017	0.0005 (J)	
3/21/2018	<0.005	
9/19/2018	<0.005	
3/23/2019		<0.005
9/18/2019		0.00057 (J)
3/13/2020		0.00033 (J)
9/22/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-14Z
8/24/2007	0.0048 (J)	
11/2/2007	<0.005	
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	<0.005	
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	0.0012 (J)	
4/5/2016	<0.005	
8/9/2016	<0.005	
4/11/2017	<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
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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	<0.005	
12/2/2008	0.0039	
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	<0.005	
4/3/2015	<0.005	
10/6/2015	<0.005	
4/5/2016	<0.005	
4/11/2017	0.0003 (J)	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		0.0002 (J)
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.017 (J)
3/17/2021		0.019

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
11/20/2007	0.0052	
1/23/2008	0.0069	
3/11/2008	0.0029	
5/14/2008	0.0035	
12/11/2008	<0.005	
4/23/2009	0.0038	
10/9/2009	0.0032	
5/4/2010	<0.005	
10/11/2010	0.0029	
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 (J)	
10/3/2014	0.00091 (J)	
4/1/2015	0.0011 (J)	
10/9/2015	<0.005	
3/29/2016	<0.005	
8/1/2016	<0.005	
4/6/2017	<0.005	
10/3/2017	<0.005	
3/19/2018	<0.005	
9/17/2018	<0.005	
3/21/2019		0.0018 (J)
9/16/2019		<0.005
3/12/2020		<0.005
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
8/2/2016	<0.005	
4/6/2017	0.0004 (J)	
10/3/2017	0.0006 (J)	
3/20/2018	<0.005	
9/18/2018	<0.005	
3/21/2019		<0.005
9/13/2019		0.00025 (J)
3/12/2020		0.00021 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	0.00091 (J)	
3/22/2016	<0.005	
8/2/2016	<0.005	
4/7/2017	<0.005	
10/3/2017	0.0003 (J)	
3/20/2018	<0.005	
9/18/2018	<0.005	
5/6/2019		<0.005
9/16/2019		<0.005
3/16/2020		0.00024 (J)
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 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	0.0047	
11/19/2007	0.0067 (J)	
1/15/2008	0.01	
3/6/2008	0.007	
5/13/2008	<0.005	
12/12/2008	0.0048	
4/16/2009	0.0042	
10/13/2009	0.0034	
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	0.00345 (D)	
3/30/2016	<0.005	
8/5/2016	<0.005	
4/6/2017	0.0003 (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		0.00021 (J)
3/12/2020		0.00031 (J)
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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	<0.001	
3/28/2016	<0.001	
5/23/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	0.0001 (J)	
11/10/2016	<0.001	
1/30/2017	<0.001	
4/7/2017	<0.001	
6/12/2017	<0.001	
10/2/2017	0.0003 (J)	
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
9/16/2020		9.3E-05 (J)
3/17/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10	GWC-10
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	
5/12/2008	<0.001	
12/13/2008	<0.001	
4/29/2009	<0.001	
10/20/2009	<0.001	
4/26/2010	<0.001	
9/29/2010	<0.001	
4/13/2011	<0.001	
10/5/2011	<0.001	
4/4/2012	<0.001	
10/3/2012	<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	
10/10/2015	<0.001	
3/31/2016	<0.001	
5/26/2016	<0.001	
8/5/2016	<0.001	
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	
3/20/2018	<0.001	
9/18/2018	<0.001	
3/22/2019		<0.001
9/17/2019		4.7E-05 (J)
3/12/2020		<0.001
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.001	
11/1/2007	<0.001	
11/18/2007	<0.001	
1/30/2008	<0.001	
3/5/2008	<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	
9/28/2010	<0.001	
4/12/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<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	<0.001	
10/11/2015	<0.001	
4/4/2016	<0.001	
5/26/2016	<0.001	
8/3/2016	<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	9E-05 (J)	
10/4/2017	<0.001	
3/21/2018	<0.001	
9/18/2018	<0.001	
3/23/2019		<0.001
9/17/2019		4.6E-05 (J)
3/12/2020		5.2E-05 (J)
9/21/2020		<0.001
3/19/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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)
9/22/2020		0.00015 (J)
3/18/2021		0.00024 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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	0.0002 (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
9/21/2020		0.00023 (J)
3/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-15Z
8/24/2007	<0.005	
11/2/2007	<0.005	
11/18/2007	<0.005	
1/15/2008	<0.005	
3/10/2008	<0.005	
5/13/2008	<0.005	
12/2/2008	<0.005	
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	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/6/2015	<0.005	
4/5/2016	<0.005	
5/31/2016	<0.005	
11/23/2016	<0.005	
2/10/2017	<0.005	
4/11/2017	<0.005	
6/15/2017	<0.005	
7/12/2017	<0.005	
7/26/2017	<0.005	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		4.8E-05 (J)
9/21/2020		7.5E-05 (J)
3/18/2021		4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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	<0.001	
3/31/2015	<0.001	
10/12/2015	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
8/1/2016	<0.001	
9/27/2016	<0.001	
11/11/2016	<0.001	
1/31/2017	<0.001	
4/3/2017	<0.001	
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		5.1E-05 (J)
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.00012 (J)
3/17/2021		7.4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.00011 (J)
3/17/2021		4.9E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		6.5E-05 (J)
3/18/2021		0.00011 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		7.9E-05 (J)
3/18/2021		0.0001 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	<0.0002	
4/23/2009	<0.0002	
10/6/2009	<0.0002	
4/27/2010	<0.0002	
9/30/2010	<0.0002	
4/14/2011	<0.0002	
10/5/2011	<0.0002	
4/11/2012	<0.0002	
10/2/2012	<0.0002	
4/9/2013	<0.0002	
10/15/2013	<0.0002	
4/10/2014	<0.0002	
10/1/2014	<0.0002	
3/30/2015	2.02E-05 (J)	
10/11/2015	<0.0002	
3/28/2016	<0.0002	
5/23/2016	<0.0002	
8/1/2016	<0.0002	
9/26/2016	<0.0002	
11/10/2016	<0.0002	
1/30/2017	<0.0002	
4/7/2017	<0.0002	
6/12/2017	<0.0002	
10/2/2017	<0.0002	
3/16/2018	<0.0002	
9/17/2018	<0.0002	
3/19/2019		<0.0002
9/13/2019		<0.0002
3/11/2020		<0.0002
9/16/2020		<0.0002
3/17/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.0002	
11/1/2007	<0.0002	
11/18/2007	<0.0002	
1/30/2008	<0.0002	
3/5/2008	<0.0002	
5/7/2008	0.000181	
12/14/2008	<0.0002	
4/29/2009	<0.0002	
10/22/2009	<0.0002	
4/21/2010	<0.0002	
9/28/2010	<0.0002	
4/12/2011	<0.0002	
10/4/2011	<0.0002	
4/3/2012	<0.0002	
10/3/2012	<0.0002	
4/3/2013	<0.0002	
10/9/2013	<0.0002	
4/2/2014	0.0002 (J)	
10/2/2014	<0.0002	
4/1/2015	<0.0002	
10/11/2015	<0.0002	
4/4/2016	<0.0002	
5/26/2016	<0.0002	
8/3/2016	<0.0002	
9/28/2016	<0.0002	
11/22/2016	<0.0002	
2/8/2017	<0.0002	
4/10/2017	<0.0002	
6/15/2017	<0.0002	
10/4/2017	<0.0002	
3/21/2018	<0.0002	
9/18/2018	<0.0002	
3/23/2019		<0.0002
9/17/2019		<0.0002
3/12/2020		<0.0002
9/21/2020		<0.0002
3/19/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-12
8/21/2007	<0.0002	
11/1/2007	<0.0002	
11/19/2007	<0.0002	
1/16/2008	<0.0002	
3/5/2008	<0.0002	
5/13/2008	<0.0002	
12/13/2008	<0.0002	
4/16/2009	<0.0002	
10/21/2009	<0.0002	
4/27/2010	<0.0002	
10/5/2010	<0.0002	
4/19/2011	<0.0002	
10/12/2011	<0.0002	
4/24/2012	<0.0002	
10/2/2012	<0.0002	
4/2/2013	<0.0002	
10/9/2013	<0.0002	
4/1/2014	0.0002 (J)	
10/2/2014	<0.0002	
4/1/2015	<0.0002	
10/14/2015	<0.0002	
4/4/2016	<0.0002	
5/27/2016	<0.0002	
8/3/2016	<0.0002	
9/30/2016	<0.0002	
11/22/2016	8E-05 (J)	
2/13/2017	<0.0002	
4/11/2017	<0.0002	
6/14/2017	<0.0002	
10/4/2017	<0.0002	
3/22/2018	<0.0002	
9/18/2018	<0.0002	
3/23/2019		<0.0002
9/17/2019		<0.0002 (D)
3/12/2020		<0.0002
9/21/2020		<0.0002
3/19/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-13
8/21/2007	<0.0002	
11/1/2007	<0.0002	
11/19/2007	<0.0002	
1/31/2008	<0.0002	
3/5/2008	<0.0002	
5/12/2008	<0.0002	
12/13/2008	<0.0002	
4/28/2009	<0.0002	
10/21/2009	<0.0002	
4/28/2010	<0.0002	
10/5/2010	<0.0002	
4/19/2011	<0.0002	
10/18/2011	<0.0002	
4/25/2012	<0.0002	
10/2/2012	<0.0002	
4/2/2013	<0.0002	
10/8/2013	<0.0002	
4/1/2014	0.0002 (J)	
10/1/2014	<0.0002	
4/1/2015	<0.0002	
10/15/2015	<0.0002	
4/4/2016	<0.0002	
5/31/2016	<0.0002	
8/4/2016	<0.0002	
9/29/2016	<0.0002	
11/28/2016	<0.0002	
2/9/2017	<0.0002	
4/12/2017	<0.0002	
6/16/2017	<0.0002	
10/9/2017	<0.0002	
3/21/2018	<0.0002	
9/19/2018	<0.0002	
3/23/2019		<0.0002
9/18/2019		<0.0002
3/13/2020		<0.0002
9/22/2020		<0.0002
3/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-15Z
8/24/2007	<0.0002	
11/2/2007	<0.0002	
11/18/2007	<0.0002	
1/15/2008	<0.0002	
3/10/2008	<0.0002	
5/13/2008	<0.0002	
12/2/2008	<0.0002	
4/28/2009	<0.0002	
10/20/2009	<0.0002	
4/27/2010	<0.0002	
10/5/2010	<0.0002	
4/19/2011	<0.0002	
10/12/2011	<0.0002	
4/25/2012	<0.0002	
10/10/2012	<0.0002	
4/16/2013	<0.0002	
10/22/2013	<0.0002	
4/21/2014	<0.0002	
9/30/2014	<0.0002	
4/3/2015	<0.0002	
10/6/2015	<0.0002	
4/5/2016	<0.0002	
5/31/2016	<0.0002	
11/23/2016	6E-05 (J)	
2/10/2017	<0.0002	
4/11/2017	<0.0002	
6/15/2017	<0.0002	
7/12/2017	<0.0002	
7/26/2017	<0.0002	
10/6/2017	<0.0002	
3/23/2018	<0.0002	
9/19/2018	<0.0002	
3/22/2019		<0.0002
9/17/2019		<0.0002
3/13/2020		<0.0002
9/21/2020		<0.0002
3/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
8/23/2007	<0.0002	
10/25/2007	<0.0002	
11/19/2007	<0.0002	
1/23/2008	<0.0002	
3/11/2008	<0.0002	
5/12/2008	<0.0002	
12/11/2008	<0.0002	
4/15/2009	<0.0002	
10/9/2009	<0.0002	
5/4/2010	<0.0002	
10/12/2010	<0.0002	
4/28/2011	<0.0002	
10/19/2011	<0.0002	
5/2/2012	<0.0002	
10/9/2012	<0.0002	
4/11/2013	<0.0002	
10/16/2013	<0.0002	
4/23/2014	<0.0002	
10/3/2014	3.71E-05 (J)	
3/31/2015	<0.0002	
10/12/2015	<0.0002	
3/28/2016	<0.0002	
5/25/2016	<0.0002	
8/1/2016	<0.0002	
9/27/2016	<0.0002	
11/11/2016	<0.0002	
1/31/2017	<0.0002	
4/3/2017	<0.0002	
6/12/2017	<0.0002	
10/3/2017	<0.0002	
3/19/2018	<0.0002	
9/17/2018	<0.0002	
3/20/2019		<0.0002
9/16/2019		<0.0002
3/16/2020		<0.0002
9/16/2020		<0.0002
3/17/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	<0.0002	
10/25/2007	<0.0002	
11/20/2007	<0.0002	
1/23/2008	<0.0002	
3/11/2008	<0.0002	
5/14/2008	<0.0002	
12/11/2008	<0.0002	
4/23/2009	<0.0002	
10/9/2009	<0.0002	
5/4/2010	<0.0002	
10/11/2010	<0.0002	
4/26/2011	<0.0002	
10/18/2011	<0.0002	
5/2/2012	<0.0002	
10/8/2012	<0.0002	
4/10/2013	<0.0002	
10/8/2013	<0.0002	
4/14/2014	<0.0002	
10/3/2014	3.29E-05 (J)	
4/1/2015	<0.0002	
10/9/2015	<0.0002	
3/29/2016	<0.0002	
5/24/2016	<0.0002	
8/1/2016	<0.0002	
9/26/2016	<0.0002	
11/18/2016	<0.0002	
2/1/2017	<0.0002	
4/6/2017	<0.0002	
6/13/2017	<0.0002	
10/3/2017	<0.0002	
3/19/2018	<0.0002	
9/17/2018	<0.0002	
3/21/2019		<0.0002
9/16/2019		<0.0002
3/12/2020		<0.0002
9/16/2020		<0.0002
3/17/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
4/27/2010	<0.005	
9/30/2010	<0.005	
4/14/2011	0.0028	
10/5/2011	0.0028	
4/11/2012	<0.005	
10/2/2012	0.0026	
4/9/2013	<0.005	
10/15/2013	<0.005	
4/10/2014	0.0025 (J)	
10/1/2014	<0.005	
3/30/2015	0.0015 (J)	
10/11/2015	0.0013 (J)	
3/28/2016	<0.005	
8/1/2016	<0.005	
4/7/2017	0.0011 (J)	
10/2/2017	0.0013 (J)	
3/16/2018	<0.005	
9/17/2018	0.00096 (J)	
3/19/2019		<0.005
9/13/2019		0.00063 (J)
3/11/2020		0.00084 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		<0.01
3/18/2021		0.00094 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	0.0087	
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	0.0042	
4/3/2013	<0.005	
10/9/2013	<0.005	
4/2/2014	0.0025 (J)	
10/2/2014	0.0016 (J)	
4/1/2015	<0.005	
10/11/2015	<0.005	
4/4/2016	<0.005	
8/3/2016	<0.005	
4/10/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005
3/12/2020		<0.005
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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)
9/21/2020		0.0019 (J)
3/19/2021		0.0022 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
5/12/2008	0.0035	
12/13/2008	0.0079	
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	0.0031	
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	
8/4/2016	<0.005	
4/12/2017	<0.005	
10/9/2017	<0.005	
3/21/2018	<0.005	
9/19/2018	<0.005	
3/23/2019		<0.005
9/18/2019		0.00046 (J)
3/13/2020		<0.005
9/22/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-14Z
8/24/2007	<0.005	
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	<0.005	
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	
8/9/2016	0.0021 (J)	
4/11/2017	<0.005	
10/5/2017	<0.005	
3/22/2018	<0.005	
9/19/2018	0.00096 (J)	
3/22/2019		<0.005
9/17/2019		0.0007 (X)
3/13/2020		0.00078 (J)
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-15Z
8/24/2007	<0.005	
11/2/2007	<0.005	
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	<0.005	
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	
9/30/2014	<0.005	
4/3/2015	<0.005	
10/6/2015	<0.005	
4/5/2016	<0.005	
4/11/2017	<0.005	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/22/2019		<0.005
9/17/2019		<0.005
3/13/2020		<0.005
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		0.0075 (J)
3/17/2021		0.0077

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	0.0028	
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	<0.005	
10/11/2010	0.0042	
4/26/2011	0.0051	
10/18/2011	<0.005	
5/2/2012	<0.005	
10/8/2012	<0.005	
4/10/2013	<0.005	
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	<0.005	
3/29/2016	<0.005	
8/1/2016	<0.005	
4/6/2017	0.0005 (J)	
10/3/2017	<0.005	
3/19/2018	<0.005	
9/17/2018	<0.005	
3/21/2019		<0.005
9/16/2019		<0.005
3/12/2020		<0.005
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
9/18/2018	<0.005	
3/21/2019		0.00099 (J)
9/13/2019		0.00061 (J)
3/12/2020		0.00078 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
10/8/2015	<0.005	
3/22/2016	<0.005	
8/2/2016	<0.005	
4/7/2017	0.0007 (J)	
10/3/2017	0.0006 (J)	
3/20/2018	<0.005	
9/18/2018	<0.005	
5/6/2019		<0.005
9/16/2019		<0.005
3/16/2020		0.0006 (J)
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 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)
9/17/2020		<0.01
3/18/2021		0.001 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
8/23/2007	0.028	
11/2/2007	0.041	
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
3/29/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.01	
3/5/2008	<0.01	
5/12/2008	<0.01	
12/13/2008	<0.01	
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	0.0055	
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
9/18/2019		0.0018 (J)
3/13/2020		0.0019 (J)
9/22/2020		<0.01
3/18/2021		0.0021 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-14Z
8/24/2007	<0.01	
11/2/2007	<0.01	
11/17/2007	<0.01	
1/15/2008	<0.01	
3/5/2008	<0.01	
5/7/2008	<0.01	
12/2/2008	<0.01	
4/16/2009	<0.01	
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	
6/1/2016	<0.01	
8/9/2016	<0.01	
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	<0.01	
3/22/2019		<0.01
9/17/2019		<0.01
3/13/2020		0.0016 (J)
9/21/2020		<0.01
3/18/2021		0.0016 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.01
3/17/2021		0.0019 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.01 (D)	
7/2/2015	<0.01	
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
9/17/2020		<0.01
3/18/2021		0.0089

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
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	0.00202 (J)	
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		<0.005
3/12/2020		<0.005
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/30/2021 11:33 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)
9/16/2020		0.00042 (J)
3/17/2021		0.00044 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/30/2021 11:33 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	<0.005	
3/5/2008	0.0046	
5/13/2008	<0.005	
12/13/2008	<0.005	
4/16/2009	<0.005	
10/21/2009	<0.005	
4/27/2010	<0.005	
10/5/2010	<0.005	
4/19/2011	<0.005	
10/12/2011	<0.005	
4/24/2012	<0.005	
10/2/2012	<0.005	
4/2/2013	<0.005	
10/9/2013	<0.005	
4/1/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	<0.005	
10/14/2015	<0.005	
4/4/2016	<0.005	
8/3/2016	<0.005	
4/11/2017	<0.005	
10/4/2017	<0.005	
3/22/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005 (D)
3/12/2020		<0.005
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-5	GWC-5
10/12/2015	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
8/1/2016	<0.001	
9/27/2016	<0.001	
11/11/2016	<0.001	
1/31/2017	<0.001	
4/3/2017	<0.001	
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		8.4E-05 (J)
3/16/2020		<0.001
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 11:33 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	<0.001	
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		5.7E-05 (J)
3/12/2020		0.00022 (J)
9/16/2020		0.00019 (J)
3/17/2021		0.00015 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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)
9/22/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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)
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 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
9/17/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
12/12/2008	0.048 (o)	
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	<0.02	
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	<0.02	
4/7/2017	<0.02	
10/2/2017	0.0015 (J)	
3/16/2018	<0.02	
9/17/2018	<0.02	
3/19/2019		<0.02
9/13/2019		0.0061 (J)
3/11/2020		0.0025 (J)
9/16/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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	<0.02	
9/29/2010	0.012	
4/13/2011	<0.02	
10/5/2011	0.0031	
4/4/2012	<0.02	
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	<0.02	
8/5/2016	<0.02	
4/10/2017	<0.02	
10/4/2017	0.0012 (J)	
3/20/2018	<0.02	
9/18/2018	<0.02	
3/22/2019		<0.02
9/17/2019		0.0052 (J)
3/12/2020		0.0024 (J)
9/17/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11	GWC-11
8/21/2007	<0.02	
11/1/2007	<0.02	
11/18/2007	<0.02	
1/30/2008	<0.02	
3/5/2008	<0.02	
5/7/2008	0.015	
12/14/2008	0.0086 (J)	
4/29/2009	0.0037	
10/22/2009	<0.02	
4/21/2010	<0.02	
9/28/2010	0.0042	
4/12/2011	<0.02	
10/4/2011	0.012	
4/3/2012	<0.02	
10/3/2012	<0.02	
4/3/2013	<0.02	
10/9/2013	<0.02	
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	<0.02	
8/3/2016	<0.02	
4/10/2017	<0.02	
10/4/2017	0.0014 (J)	
3/21/2018	<0.02	
9/18/2018	<0.02	
3/23/2019		<0.02
9/17/2019		0.0056 (J)
3/12/2020		0.0038 (J)
9/21/2020		<0.02
3/19/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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
9/21/2020		0.0065 (J)
3/19/2021		0.0076 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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	<0.02	
11/19/2007	0.015	
1/31/2008	0.032 (o)	
3/5/2008	0.0061	
5/12/2008	0.012	
12/13/2008	0.087 (o)	
4/28/2009	0.067 (o)	
10/21/2009	0.025 (o)	
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	<0.02	
4/12/2017	<0.02	
10/9/2017	<0.02	
3/21/2018	<0.02	
9/19/2018	<0.02	
3/23/2019		0.021
9/18/2019		0.007 (J)
3/13/2020		0.0043 (J)
9/22/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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	<0.02	
4/21/2014	0.0032	
9/30/2014	0.0015 (J)	
4/3/2015	0.0015 (J)	
10/7/2015	<0.02	
4/5/2016	<0.02	
8/9/2016	0.0016 (J)	
4/11/2017	<0.02	
10/5/2017	0.0024 (J)	
3/22/2018	<0.02	
9/19/2018	<0.02	
3/22/2019		<0.02
9/17/2019		0.0057 (X)
3/13/2020		0.0028 (J)
9/21/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-15Z
8/24/2007	0.052 (o)	
11/2/2007	0.01 (J)	
11/18/2007	0.025 (J)	
1/15/2008	0.055 (o)	
3/10/2008	0.018	
5/13/2008	0.0044	
12/2/2008	0.065 (o)	
4/28/2009	0.0037 (J)	
10/20/2009	0.0043	
4/27/2010	<0.02	
10/5/2010	0.0028	
4/19/2011	<0.02	
10/12/2011	<0.02	
4/25/2012	<0.02	
10/10/2012	<0.02	
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	<0.02	
4/5/2016	0.00233 (J)	
4/11/2017	<0.02	
10/6/2017	<0.02	
3/23/2018	<0.02	
9/19/2018	<0.02	
3/22/2019		<0.02
9/17/2019		0.0048 (X)
3/13/2020		0.0026 (J)
9/21/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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
9/16/2020		0.033
3/17/2021		0.027

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-6
8/22/2007	0.04 (o)	
10/25/2007	0.0062	
11/20/2007	0.03 (o)	
1/23/2008	0.048 (o)	
3/11/2008	0.016	
5/14/2008	0.02	
12/11/2008	0.021	
4/23/2009	0.0058 (J)	
10/9/2009	0.055 (o)	
5/4/2010	0.045 (o)	
10/11/2010	0.015	
4/26/2011	0.0067	
10/18/2011	0.0055	
5/2/2012	<0.02	
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	<0.02	
3/29/2016	<0.02	
8/1/2016	<0.02	
4/6/2017	<0.02	
10/3/2017	<0.02	
3/19/2018	<0.02	
9/17/2018	<0.02	
3/21/2019		<0.02
9/16/2019		0.0058 (J)
3/12/2020		0.0042 (J)
9/16/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-7Z	GWC-7Z
8/2/2016	<0.02	
4/6/2017	<0.02	
10/3/2017	<0.02	
3/20/2018	<0.02	
9/18/2018	<0.02	
3/21/2019		<0.02
9/13/2019		0.0053 (J)
3/12/2020		0.0031 (J)
9/16/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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	<0.02	
3/22/2016	0.00302 (J)	
8/2/2016	<0.02	
4/7/2017	<0.02	
10/3/2017	0.0022 (J)	
3/20/2018	<0.02	
9/18/2018	<0.02	
5/6/2019		0.0024 (J)
9/16/2019		0.0065 (J)
3/16/2020		0.0073 (J)
9/17/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 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)	
1/15/2008	0.075 (o)	
3/6/2008	0.051 (o)	
5/13/2008	0.0084	
12/12/2008	0.077 (o)	
4/16/2009	0.064 (o)	
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	<0.02	
4/6/2017	<0.02	
10/3/2017	0.0023 (J)	
3/20/2018	<0.02	
9/18/2018	<0.02 (D)	
3/21/2019		0.0024 (J)
9/16/2019		0.0062 (J)
3/12/2020		0.0045 (J)
9/17/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 11:33 AM View: Overburden

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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	<0.02	
9/17/2018	0.04	
3/20/2019		0.028
9/13/2019		0.036
3/11/2020		0.031
3/29/2021		<0.02

FIGURE E.

Appendix I Bedrock Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/19/2021	0.012	Yes	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/16/2021	0.042	Yes	11	0.02799	0.002333	0	None	No	0.0005486	Param Intra 1 of 2

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-1	0.0097	n/a	3/16/2021	0.0014J	No	30	n/a	n/a	50	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-2R	0.0081	n/a	3/16/2021	0.005	No	30	n/a	n/a	56.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-4RZ	0.003	n/a	3/16/2021	0.00082J	No	11	n/a	n/a	63.64	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-50R	0.003	n/a	3/17/2021	0.003ND	No	26	n/a	n/a	100	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-10R	0.003	n/a	3/18/2021	0.003ND	No	31	n/a	n/a	96.77	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-11R	0.0044	n/a	3/19/2021	0.012	Yes	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-13RZ	0.00447	n/a	3/19/2021	0.0011J	No	26	n/a	n/a	61.54	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-15R	0.0106	n/a	3/18/2021	0.00045J	No	32	n/a	n/a	53.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6RZ	0.003	n/a	3/17/2021	0.003ND	No	14	n/a	n/a	85.71	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8RR	0.003	n/a	3/17/2021	0.003ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-1	0.005	n/a	3/16/2021	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2R	0.0056	n/a	3/16/2021	0.005ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-4RZ	0.002431	n/a	3/16/2021	0.00098J	No	11	0.0969	0.01324	27.27	Kaplan-Meier	x^(1/3)	0.0005486	Param Intra 1 of 2
Arsenic (mg/L)	GWC-11R	0.0077	n/a	3/19/2021	0.0013J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-13RZ	0.0066	n/a	3/19/2021	0.00084J	No	30	n/a	n/a	66.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6RZ	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.04054	n/a	3/16/2021	0.018	No	31	0.1451	0.02538	0	None	sqrt(x)	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2	0.04842	n/a	3/17/2021	0.025	No	30	0.02121	0.01224	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-2R	0.02539	n/a	3/16/2021	0.013	No	30	0.2153	0.03537	0	None	x^(1/3)	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-4RZ	0.03461	n/a	3/16/2021	0.042	Yes	11	0.02799	0.002333	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWA-50R	0.02185	n/a	3/17/2021	0.012	No	23	0.01499	0.002959	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-10R	0.03543	n/a	3/18/2021	0.027	No	32	0.02388	0.005231	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-11R	0.02192	n/a	3/19/2021	0.021	No	32	0.01259	0.004227	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-15R	0.03156	n/a	3/18/2021	0.02	No	31	0.0244	0.003233	0	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-6RZ	0.01917	n/a	3/17/2021	0.0072	No	15	0.009456	0.003803	6.667	None	No	0.0005486	Param Intra 1 of 2
Barium (mg/L)	GWC-8RR	0.024	n/a	3/17/2021	0.014	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-1	0.0005	n/a	3/16/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-50R	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-6RZ	0.0005	n/a	3/17/2021	0.0005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-8RR	0.0005	n/a	3/17/2021	0.0005ND	No	14	n/a	n/a	92.86	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-1	0.001	n/a	3/16/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-11R	0.001	n/a	3/19/2021	0.001ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-15R	0.001	n/a	3/18/2021	0.001ND	No	31	n/a	n/a	87.1	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-1	0.038	n/a	3/16/2021	0.005ND	No	30	n/a	n/a	70	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.009	n/a	3/17/2021	0.005ND	No	29	n/a	n/a	65.52	n/a	n/a	0.002172	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-2R	0.012	n/a	3/16/2021	0.005ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-50R	0.005	n/a	3/17/2021	0.005ND	No	26	n/a	n/a	61.54	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10R	0.01	n/a	3/18/2021	0.002J	No	30	n/a	n/a	80	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-11R	0.02073	n/a	3/19/2021	0.0079	No	21	0.009791	0.004649	4.762	None	No	0.0005486	Param Intra 1 of 2
Chromium (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	31	n/a	n/a	74.19	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-15R	0.014	n/a	3/18/2021	0.00089J	No	31	n/a	n/a	64.52	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6RZ	0.01	n/a	3/17/2021	0.0021J	No	15	n/a	n/a	33.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.00079J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-1	0.01	n/a	3/16/2021	0.01ND	No	32	n/a	n/a	87.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.013	n/a	3/17/2021	0.01ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.01ND	No	31	n/a	n/a	100	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-4RZ	0.02221	n/a	3/16/2021	0.015	No	11	0.0078	0.005078	9.091	None	No	0.0005486	Param Intra 1 of 2
Cobalt (mg/L)	GWA-50R	0.01	n/a	3/17/2021	0.01ND	No	26	n/a	n/a	76.92	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-11R	0.01	n/a	3/19/2021	0.01ND	No	31	n/a	n/a	93.55	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-13RZ	0.01	n/a	3/19/2021	0.01ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.01ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.01ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-1	0.0094	n/a	3/16/2021	0.005ND	No	27	n/a	n/a	55.56	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWA-2	0.013	n/a	3/17/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2R	0.013	n/a	3/16/2021	0.005ND	No	27	n/a	n/a	66.67	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-4RZ	0.005	n/a	3/16/2021	0.005ND	No	4	n/a	n/a	75	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-50R	0.01777	n/a	3/17/2021	0.0024J	No	10	0.005944	0.004014	0	None	No	0.0005486	Param Intra 1 of 2
Copper (mg/L)	GWC-10R	0.007	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-11R	0.025	n/a	3/19/2021	0.0018J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-13RZ	0.013	n/a	3/19/2021	0.005ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-15R	0.02	n/a	3/18/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6RZ	0.005	n/a	3/17/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-1	0.005	n/a	3/16/2021	0.000052J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	3/17/2021	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2R	0.005	n/a	3/16/2021	0.00007J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-4RZ	0.001	n/a	3/16/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-50R	0.0012	n/a	3/17/2021	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-11R	0.005	n/a	3/19/2021	0.00018J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.000074J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.00036J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6RZ	0.001	n/a	3/17/2021	0.001ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8RR	0.001	n/a	3/17/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	3/17/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-13RZ	0.0002	n/a	3/19/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-15R	0.0002	n/a	3/18/2021	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-8RR	0.0002	n/a	3/17/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.024	n/a	3/16/2021	0.005ND	No	26	n/a	n/a	73.08	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.02	n/a	3/17/2021	0.005ND	No	25	n/a	n/a	68	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2R	0.0093	n/a	3/16/2021	0.005ND	No	26	n/a	n/a	84.62	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-4RZ	0.005	n/a	3/16/2021	0.005ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-50R	0.01209	n/a	3/17/2021	0.0012J	No	10	0.05305	0.01932	10	None	sqrt(x)	0.0005486	Param Intra 1 of 2
Nickel (mg/L)	GWC-10R	0.01	n/a	3/18/2021	0.0011J	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-11R	0.005	n/a	3/19/2021	0.005ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	25	n/a	n/a	80	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.00079J	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-8RR	0.005	n/a	3/17/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2	0.01	n/a	3/17/2021	0.0045J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.0021J	No	32	n/a	n/a	100	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	32	n/a	n/a	87.5	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-15R	0.005	n/a	3/18/2021	0.005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-6RZ	0.01	n/a	3/17/2021	0.0038J	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-50R	0.004299	n/a	3/17/2021	0.0026J	No	21	0.002202	0.0008907	38.1	Kaplan-Meier	No	0.0005486	Param Intra 1 of 2
Silver (mg/L)	GWC-13RZ	0.005	n/a	3/19/2021	0.005ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2R	0.001	n/a	3/16/2021	0.001ND	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-50R	0.001	n/a	3/17/2021	0.001ND	No	12	n/a	n/a	100	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-10R	0.001	n/a	3/18/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-11R	0.001	n/a	3/19/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-13RZ	0.001	n/a	3/19/2021	0.001ND	No	12	n/a	n/a	91.67	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-1	0.01	n/a	3/16/2021	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	3/17/2021	0.01ND	No	26	n/a	n/a	80.77	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2R	0.01	n/a	3/16/2021	0.01ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-4RZ	0.01	n/a	3/16/2021	0.01ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-50R	0.01	n/a	3/17/2021	0.01ND	No	21	n/a	n/a	66.67	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-11R	0.01	n/a	3/19/2021	0.01ND	No	26	n/a	n/a	46.15	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWC-13RZ	0.011	n/a	3/19/2021	0.01ND	No	24	n/a	n/a	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-15R	0.01	n/a	3/18/2021	0.01ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-8RR	0.01	n/a	3/17/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2

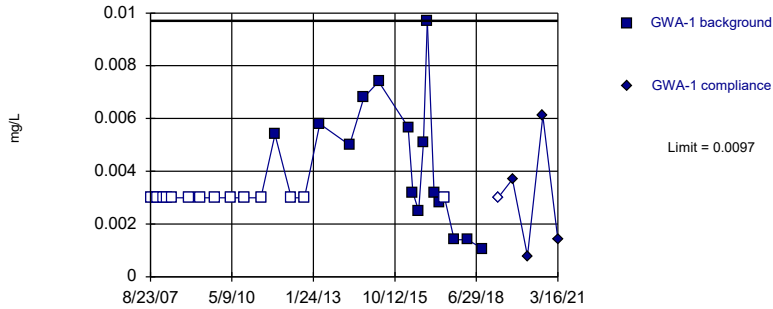
Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc (mg/L)	GWA-1	0.01974	n/a	3/16/2021	0.0091J	No	24	-5.343	0.6168	29.17	Kaplan-Meier	ln(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWA-2	0.027	n/a	3/17/2021	0.02ND	No	25	n/a	n/a	48	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-2R	0.02	n/a	3/16/2021	0.02ND	No	26	n/a	n/a	46.15	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-4RZ	0.02	n/a	3/16/2021	0.02ND	No	4	n/a	n/a	100	n/a	n/a	0.06138	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-50R	0.02265	n/a	3/17/2021	0.02ND	No	17	0.009815	0.005207	23.53	Kaplan-Meier	No	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-10R	0.02	n/a	3/18/2021	0.02ND	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-11R	0.02	n/a	3/19/2021	0.02ND	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-13RZ	0.01293	n/a	3/19/2021	0.02ND	No	23	-5.434	0.4686	30.43	Kaplan-Meier	ln(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-15R	0.01295	n/a	3/18/2021	0.02ND	No	25	0.0676	0.02025	20	Kaplan-Meier	sqrt(x)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-6RZ	0.0115	n/a	3/17/2021	0.02ND	No	10	0.1406	0.02888	40	Kaplan-Meier	x^(1/3)	0.0005486	Param Intra 1 of 2
Zinc (mg/L)	GWC-8RR	0.02	n/a	3/17/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

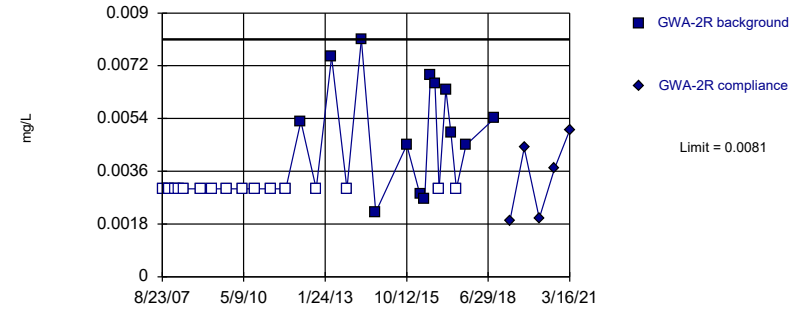


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 50% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

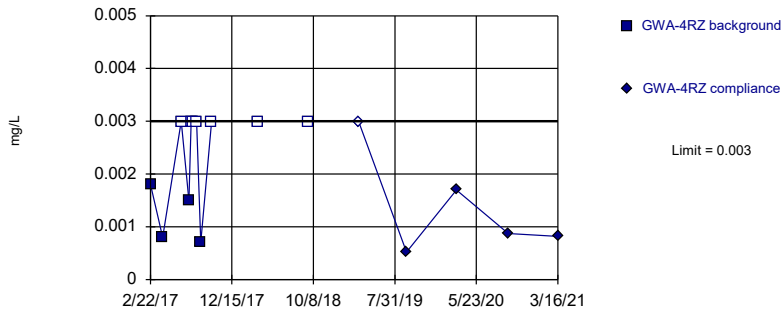


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 56.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

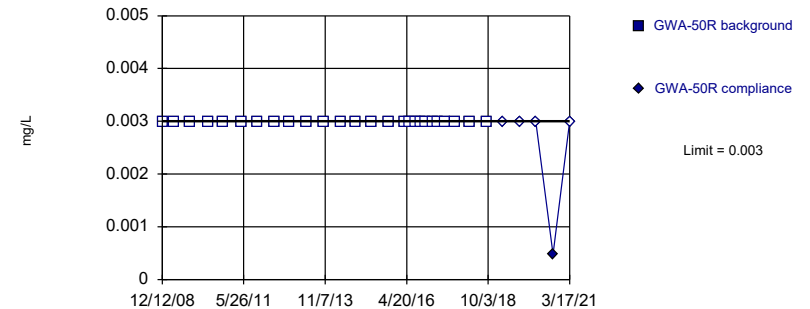


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

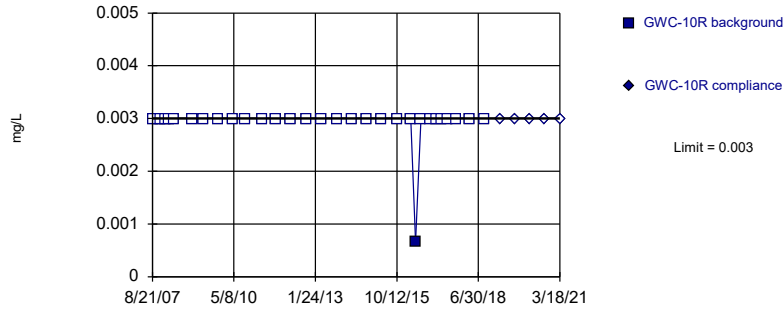


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

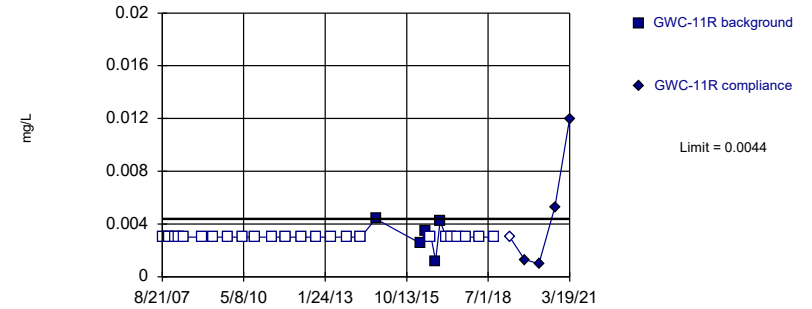


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

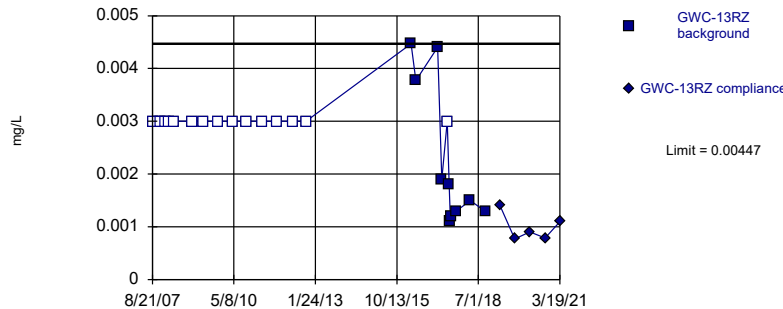


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

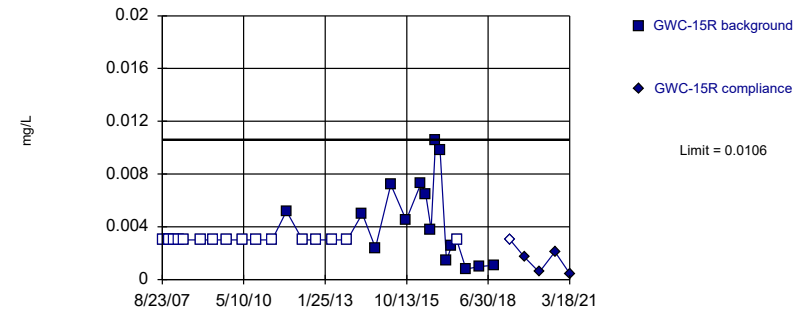


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

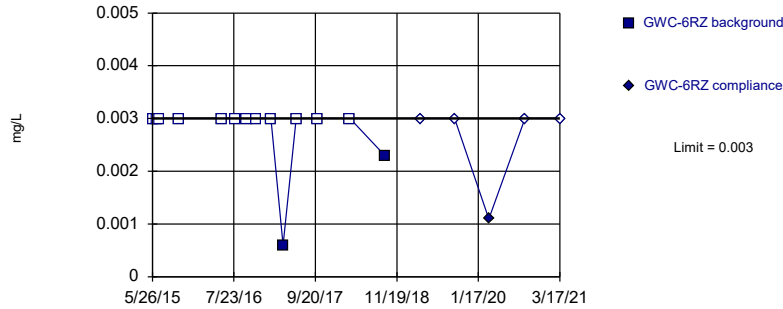


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 53.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

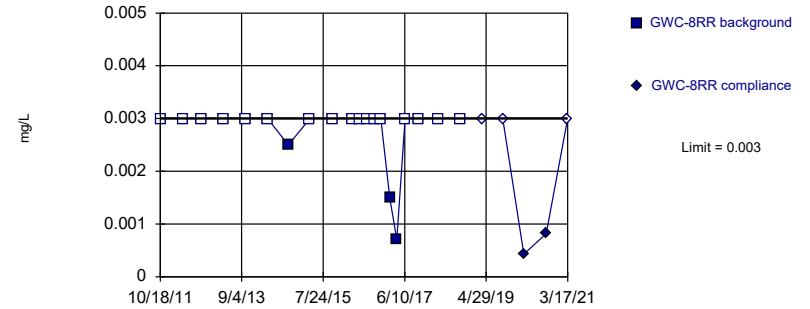


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

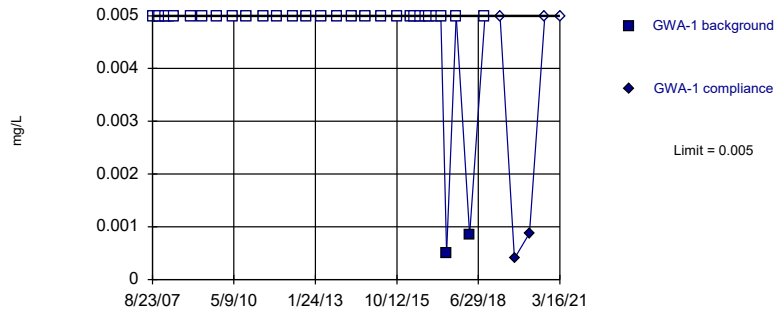


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

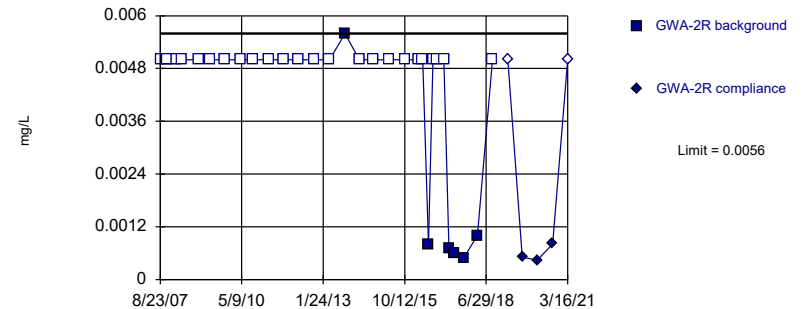


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

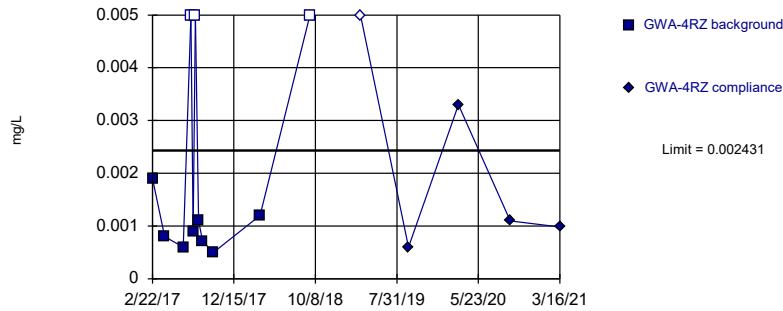


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

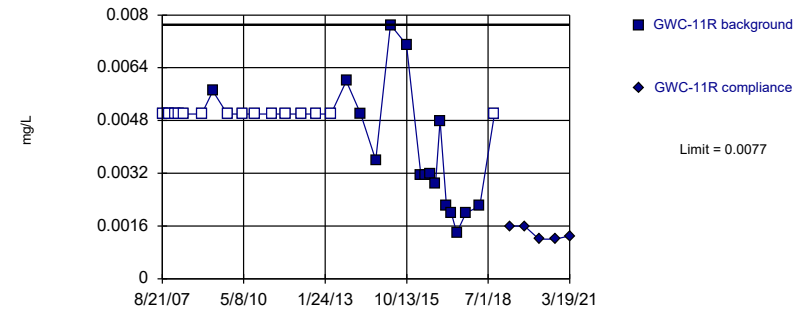


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.0969, Std. Dev.=0.01324, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8043, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

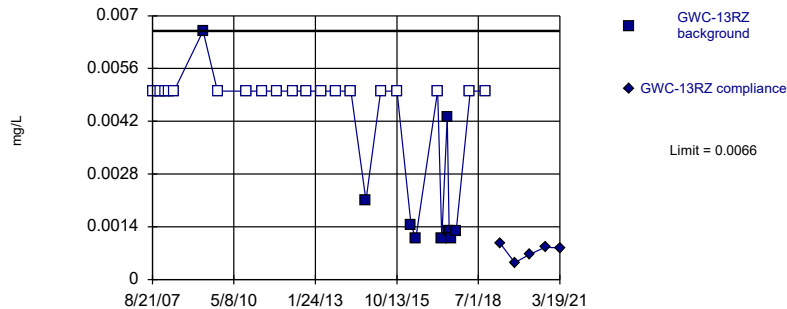


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

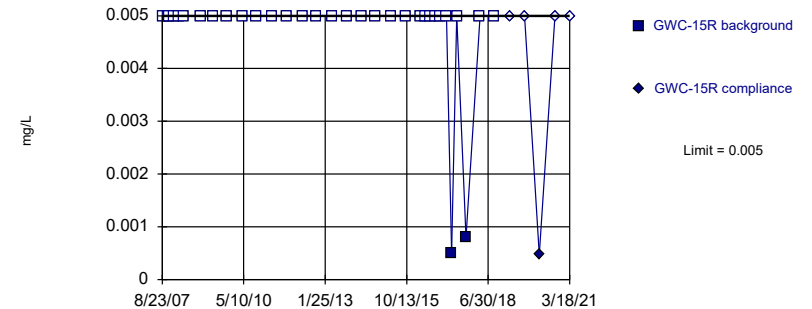


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

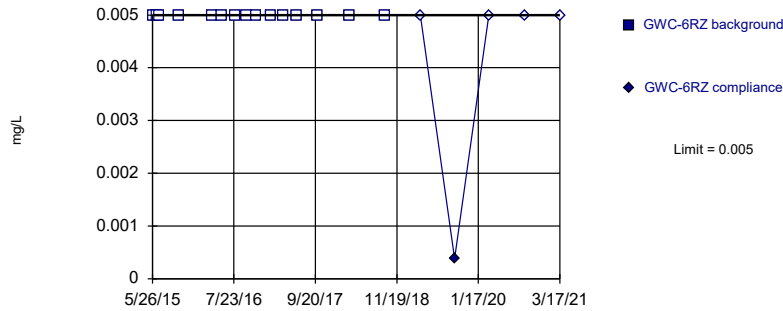


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

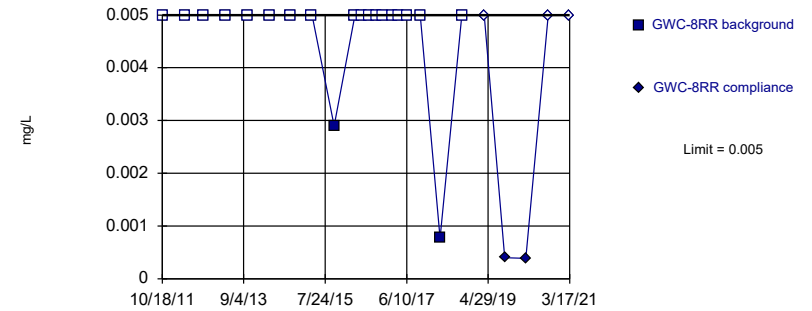


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

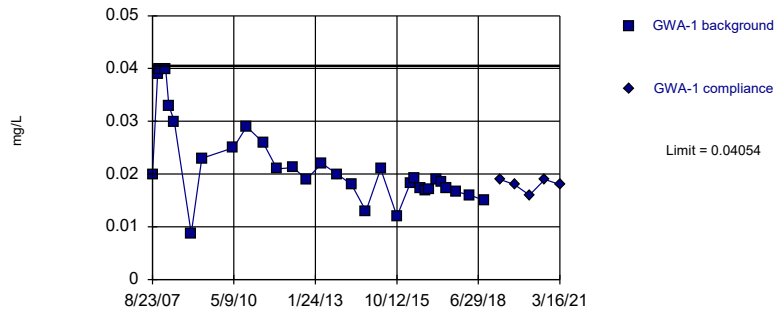


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

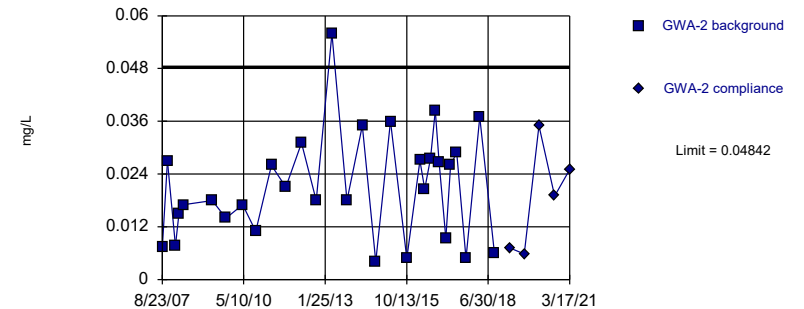


Background Data Summary (based on square root transformation): Mean=0.1451, Std. Dev.=0.02538, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.902. Kappa = 2.215 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

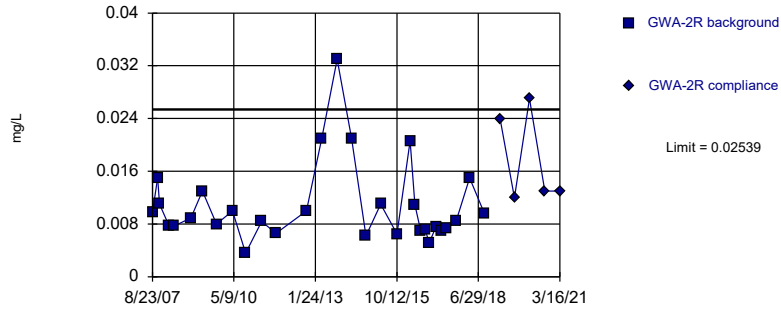


Background Data Summary: Mean=0.02121, Std. Dev.=0.01224, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9464, critical = 0.9. Kappa = 2.223 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

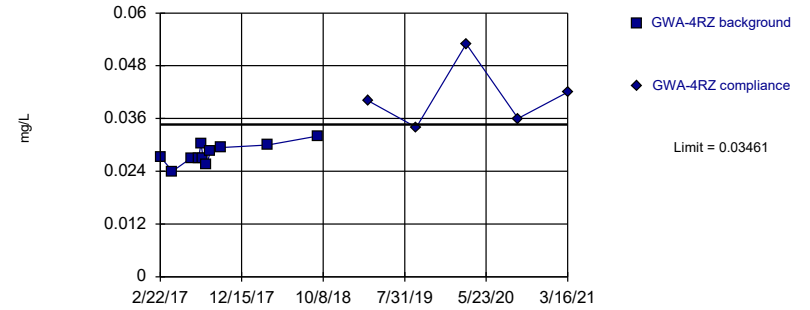


Background Data Summary (based on cube root transformation): Mean=0.2153, Std. Dev.=0.03537, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.9. Kappa = 2.223 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

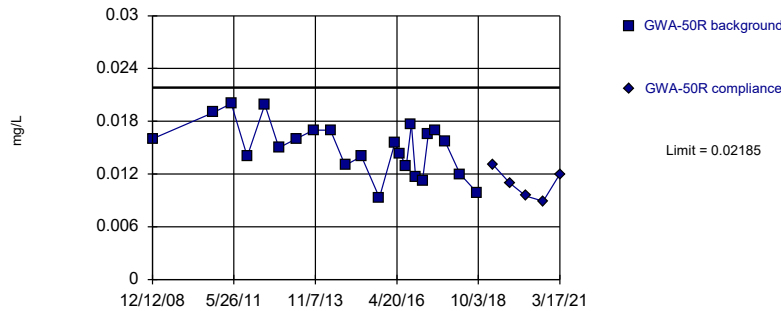


Background Data Summary: Mean=0.02799, Std. Dev.=0.002333, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

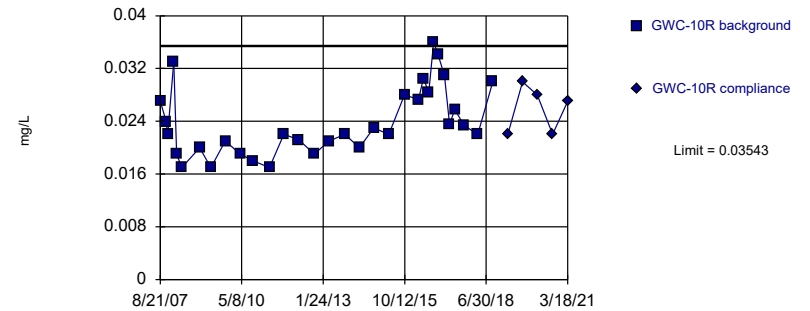


Background Data Summary: Mean=0.01499, Std. Dev.=0.002959, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

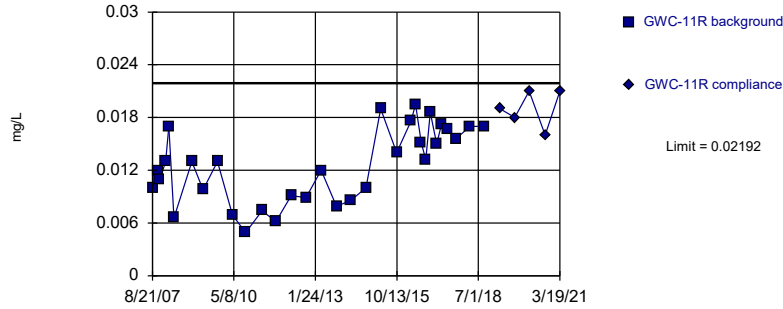


Background Data Summary: Mean=0.02388, Std. Dev.=0.005231, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9249, critical = 0.904. Kappa = 2.208 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

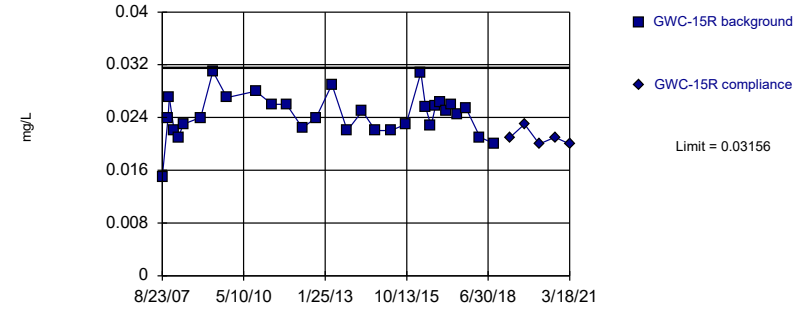


Background Data Summary: Mean=0.01259, Std. Dev.=0.004227, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.904. Kappa = 2.208 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

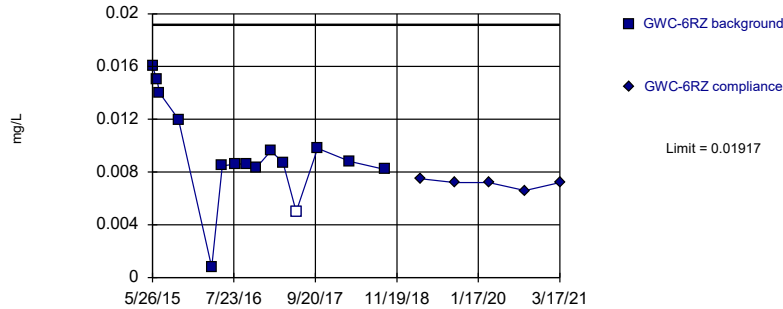


Background Data Summary: Mean=0.0244, Std. Dev.=0.003233, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.902. Kappa = 2.215 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

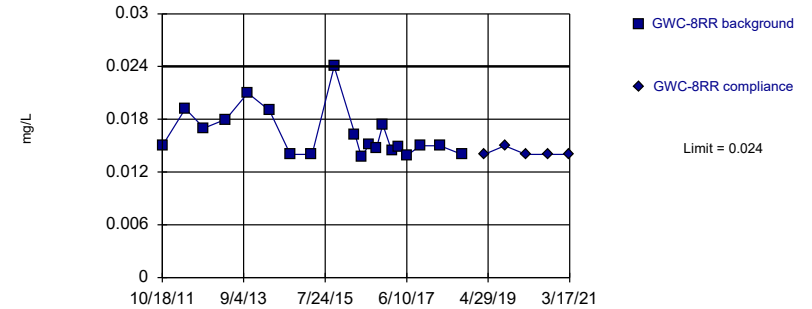


Background Data Summary: Mean=0.009456, Std. Dev.=0.003803, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9092, critical = 0.835. Kappa = 2.555 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

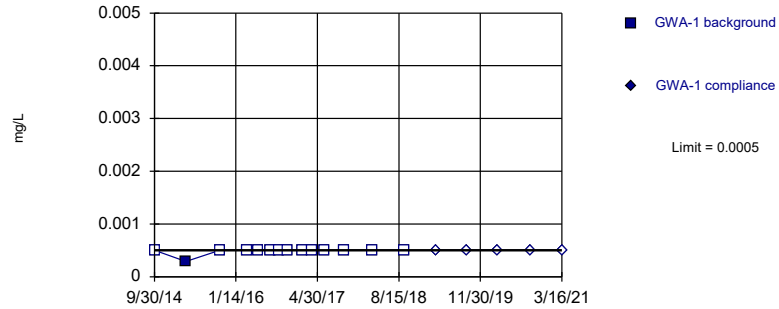


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Barium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

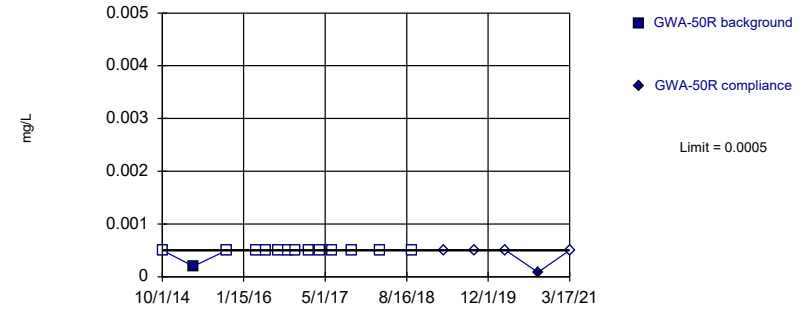


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Beryllium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

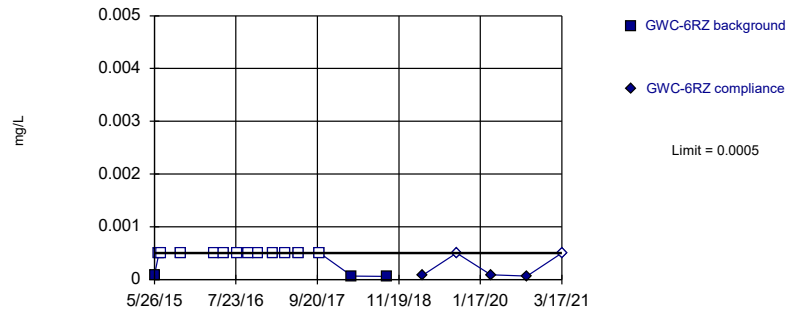


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Beryllium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

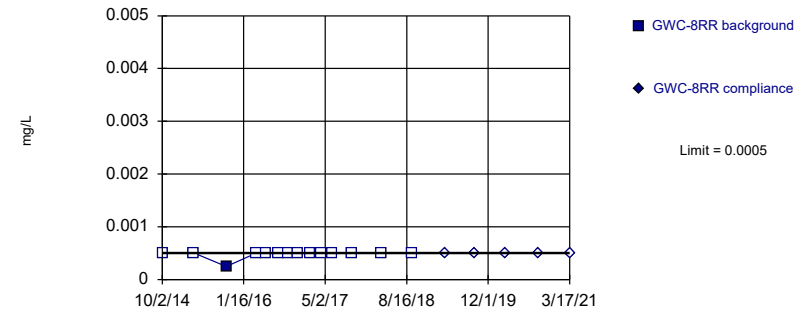


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Beryllium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

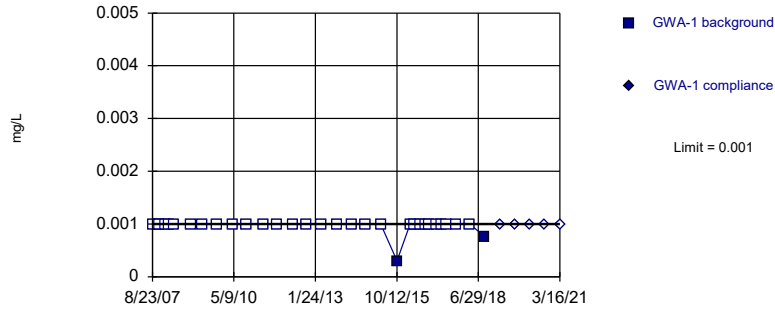


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 92.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Beryllium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

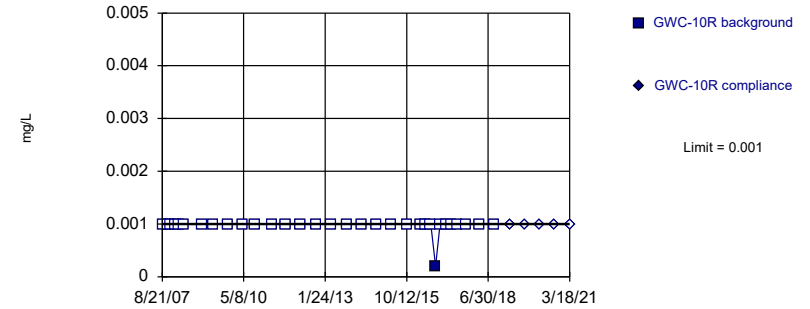


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

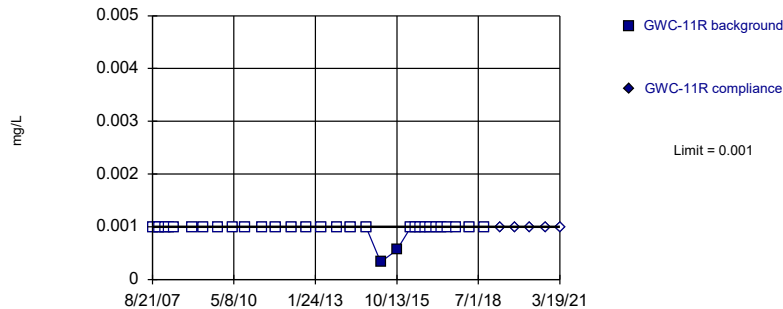


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

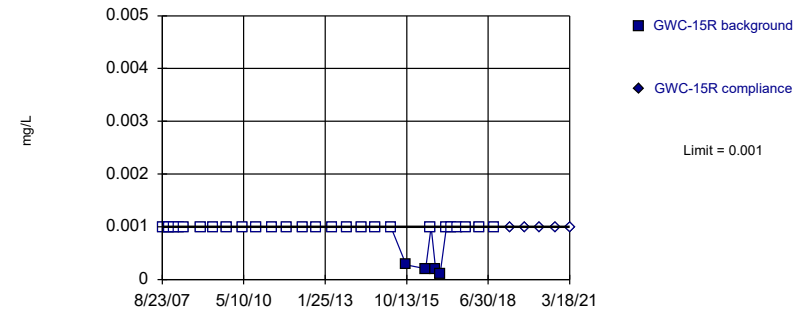


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

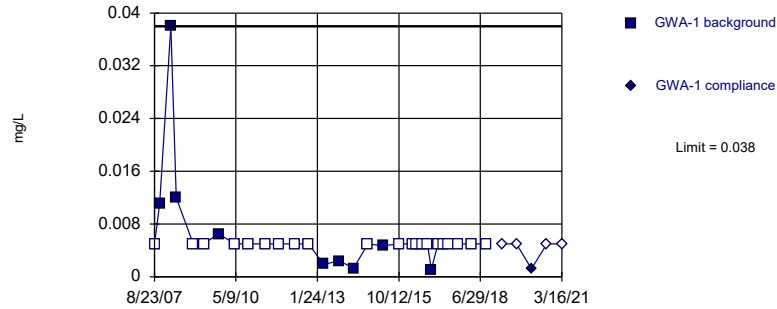


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

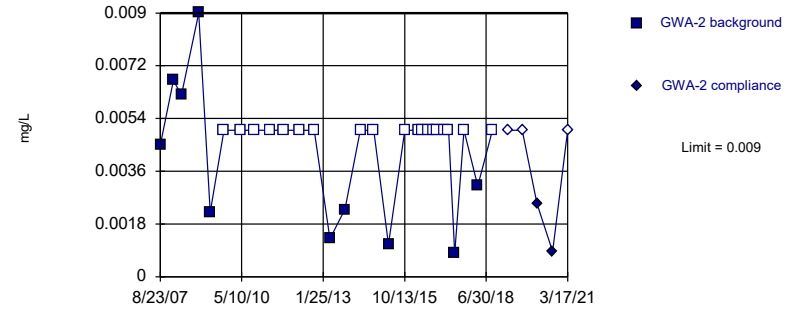


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 70% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

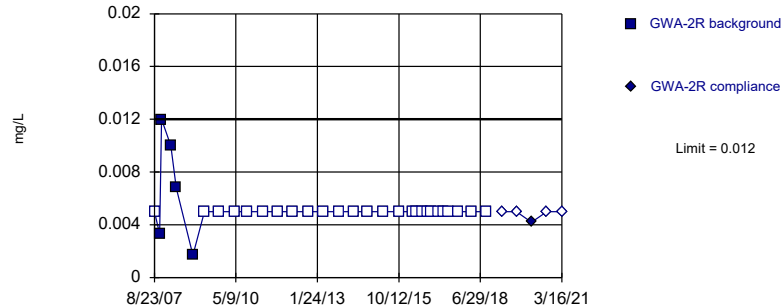


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 29 background values. 65.52% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

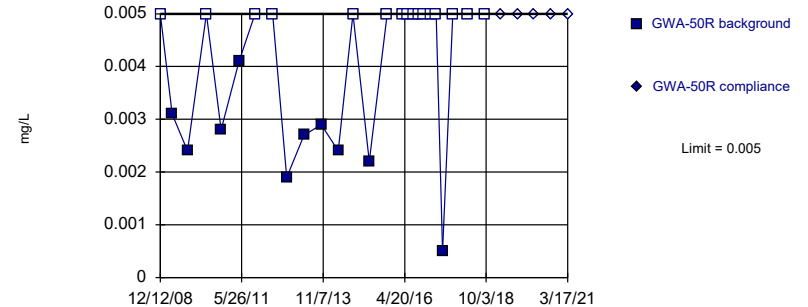


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

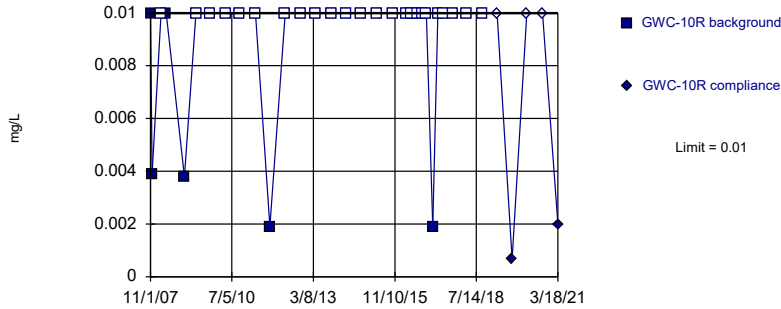


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 61.54% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

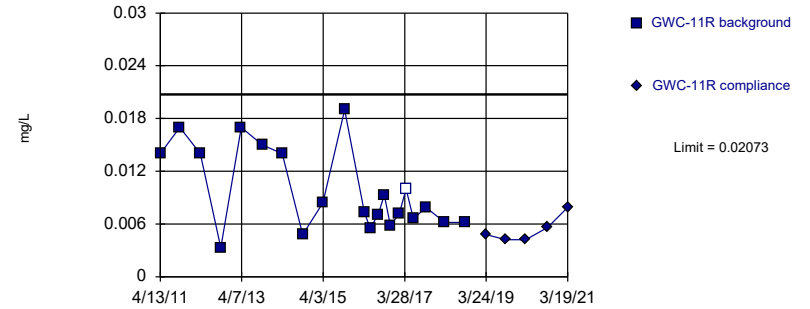


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

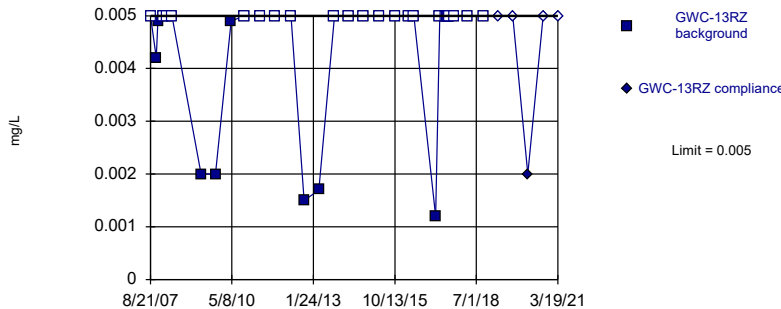


Background Data Summary: Mean=0.009791, Std. Dev.=0.004649, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8988, critical = 0.873. Kappa = 2.354 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

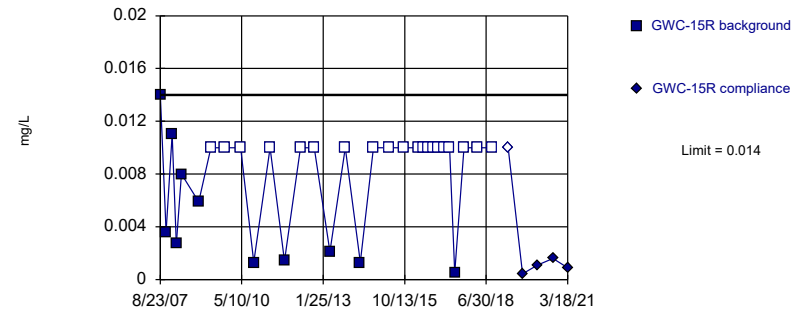


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 74.19% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

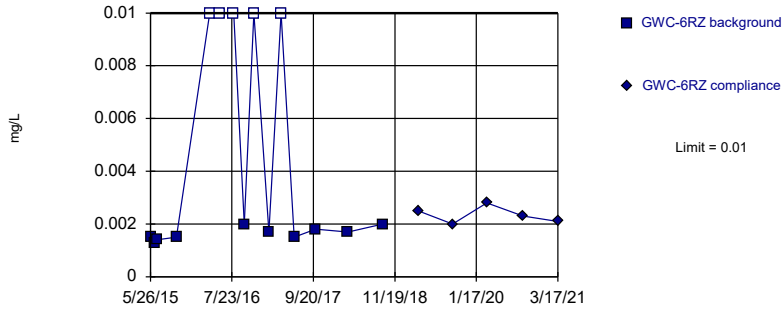


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 64.52% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

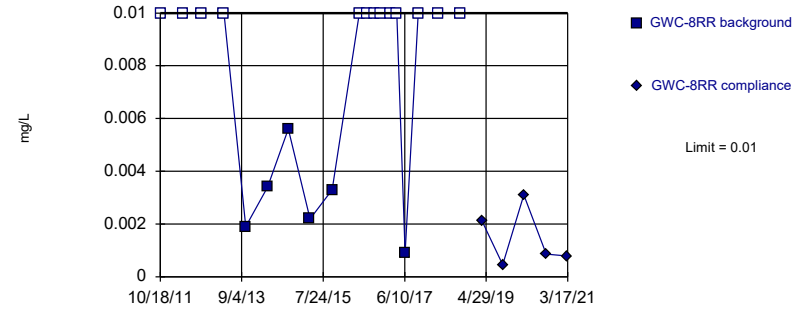


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

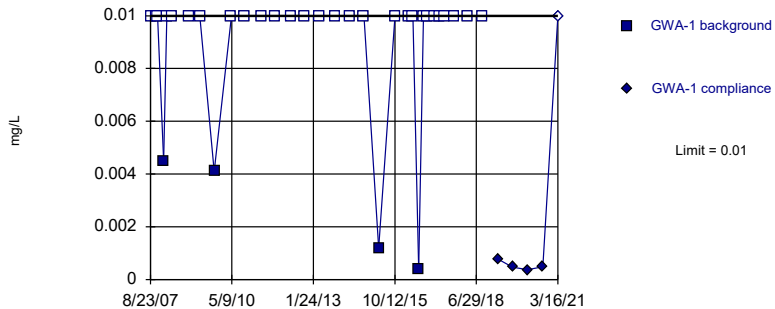


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Chromium Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

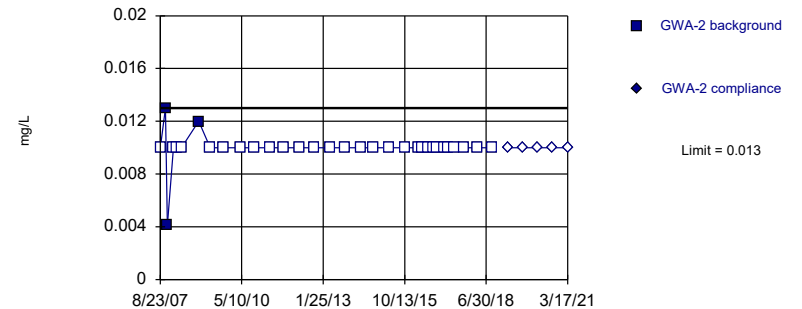


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

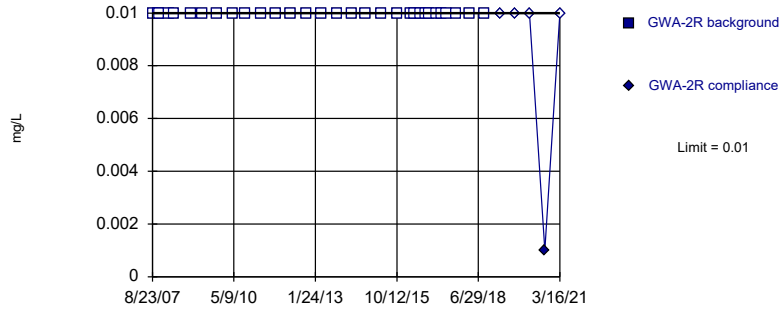


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

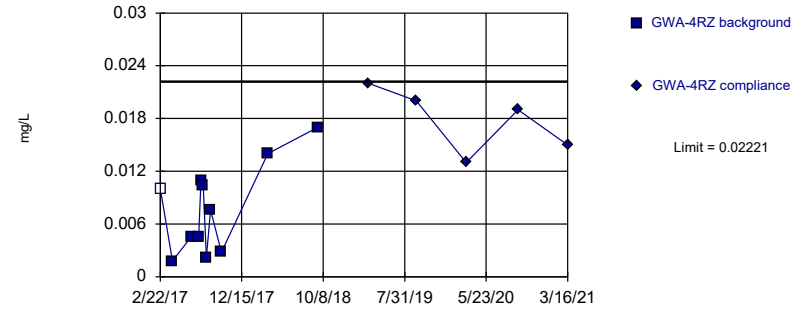


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

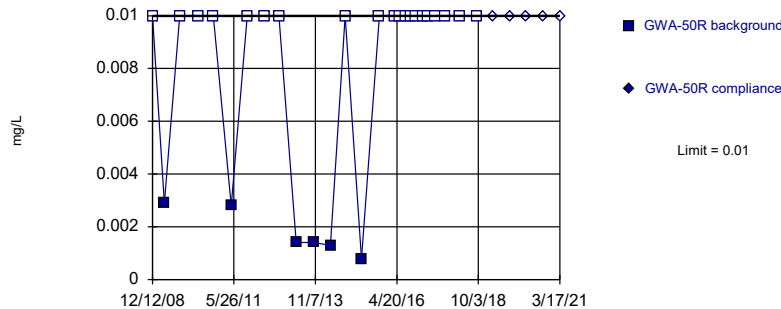


Background Data Summary: Mean=0.0078, Std. Dev.=0.005078, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9288, critical = 0.792. Kappa = 2.837 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cobalt Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

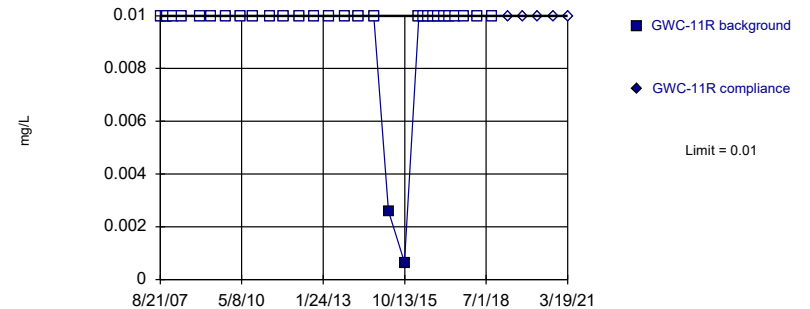


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:51 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

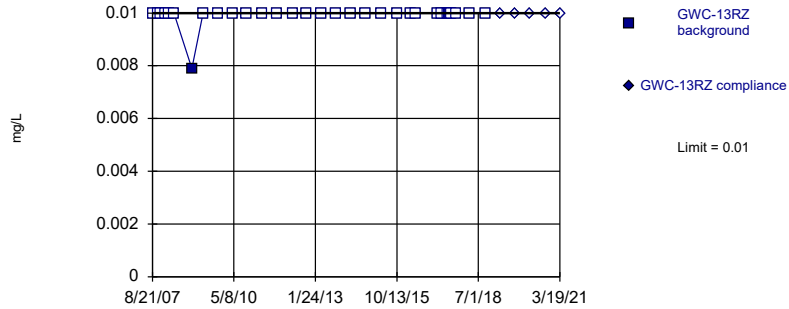


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

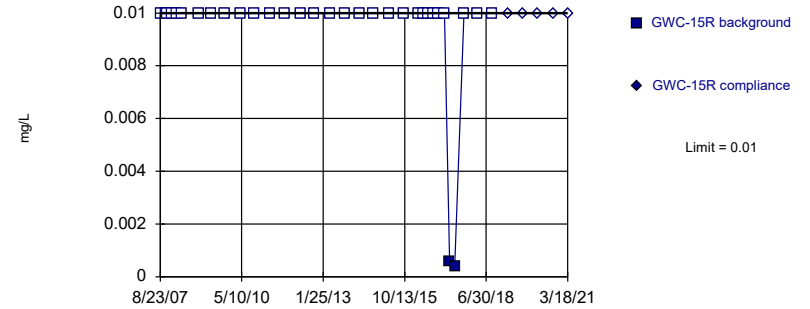


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

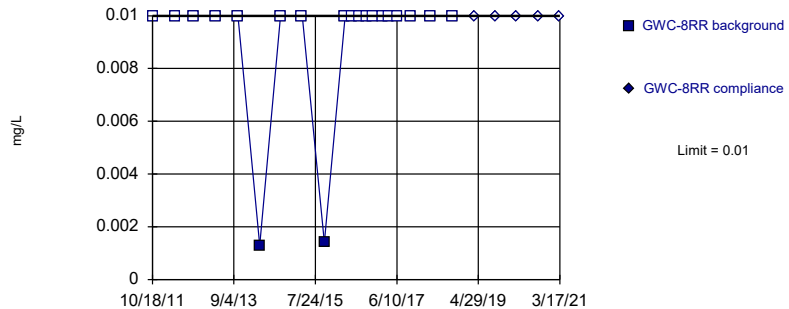


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

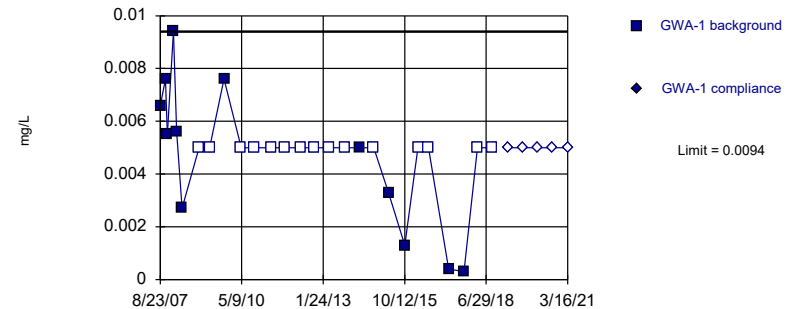


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

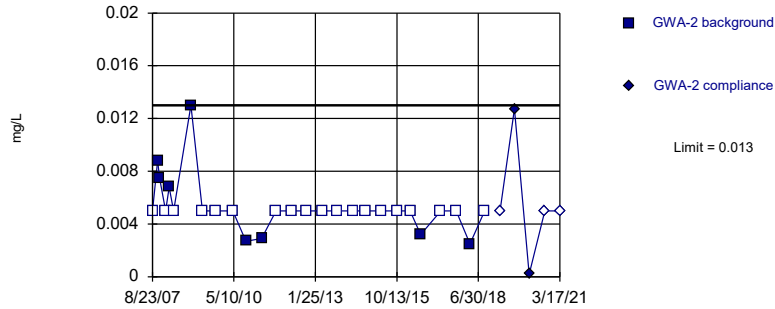


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

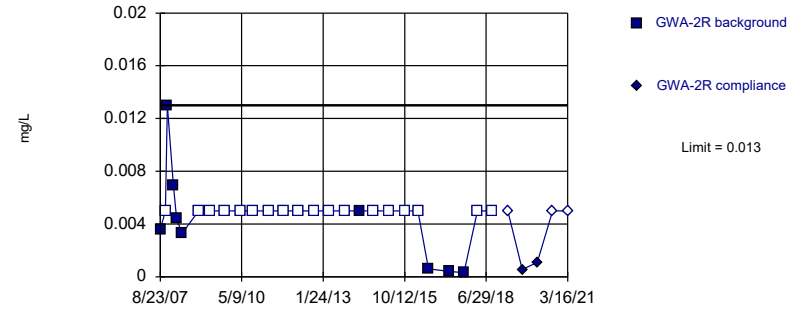


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

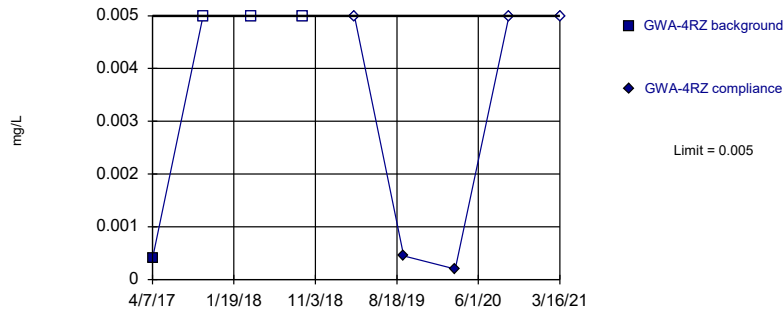


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

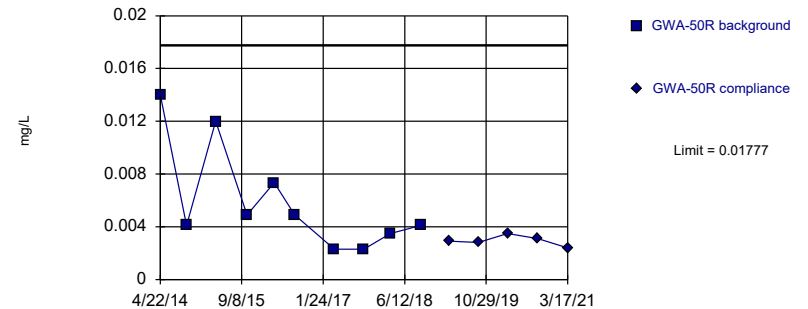


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 4 background values. 75% NDs. Well-constituent pair annual alpha = 0.119. Individual comparison alpha = 0.06138 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

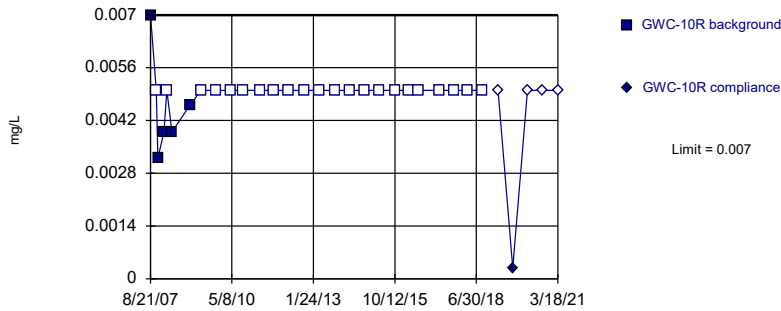


Background Data Summary: Mean=0.005944, Std. Dev.=0.004014, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.813, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

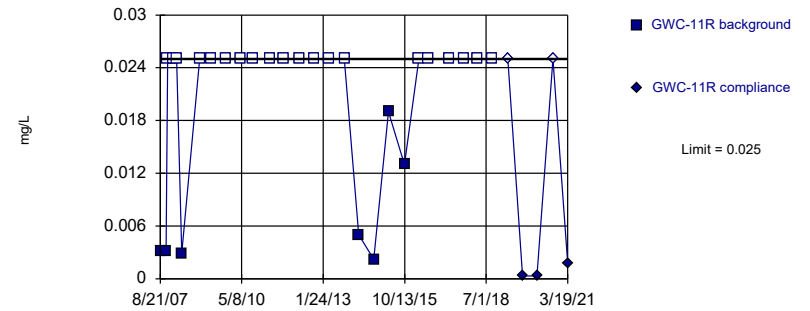


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

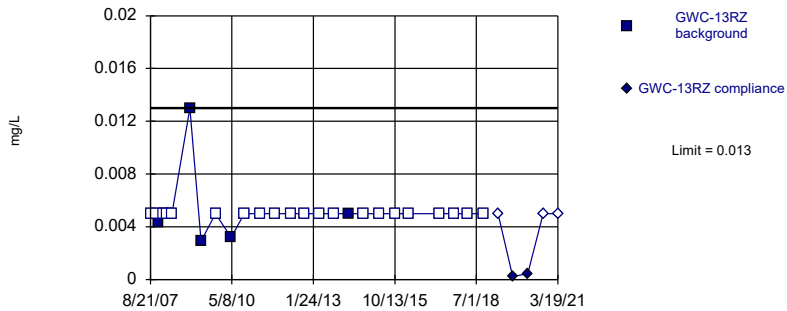


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

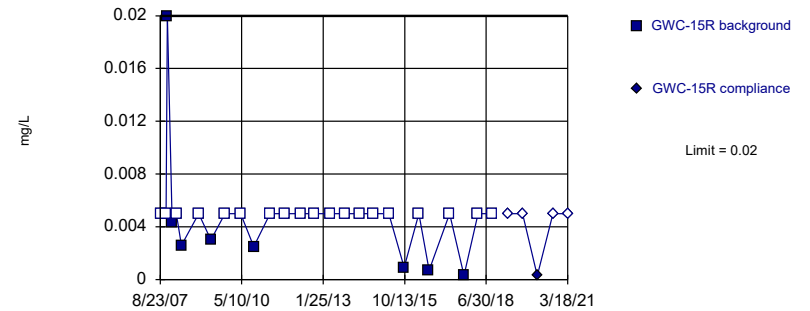


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

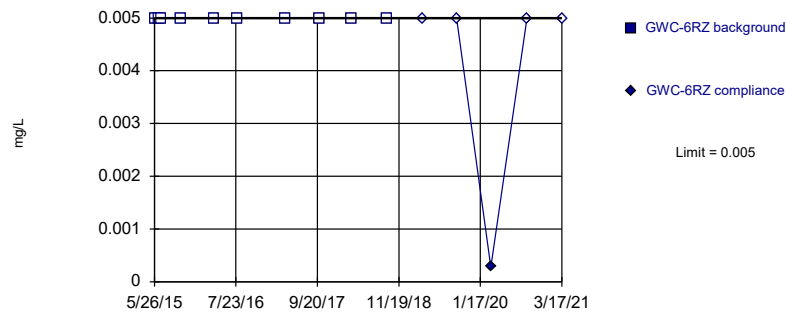


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

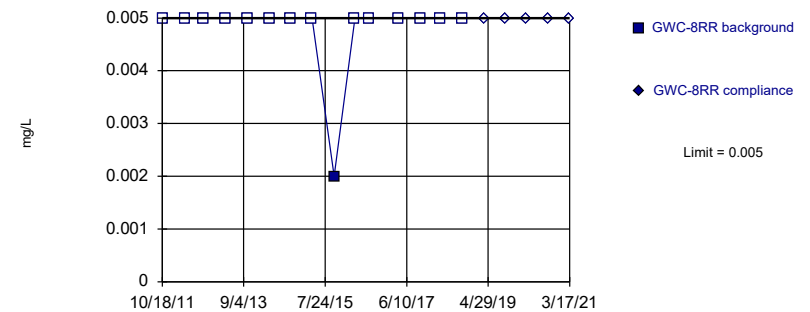


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.0293. Individual comparison alpha = 0.01476 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

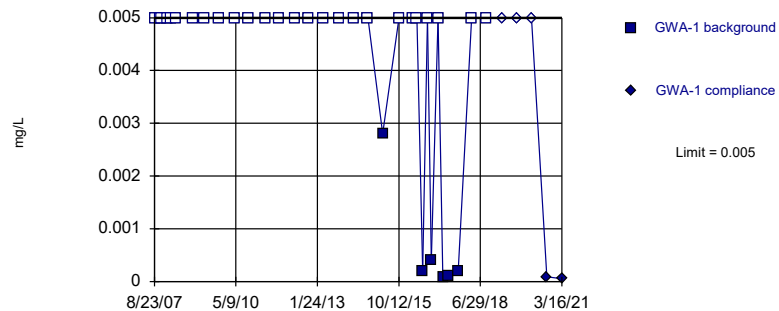


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

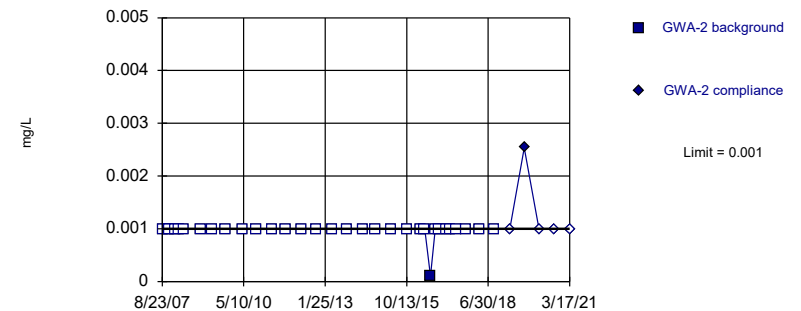


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

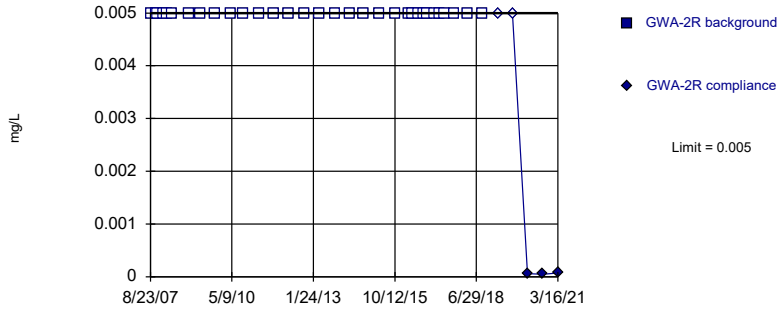


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

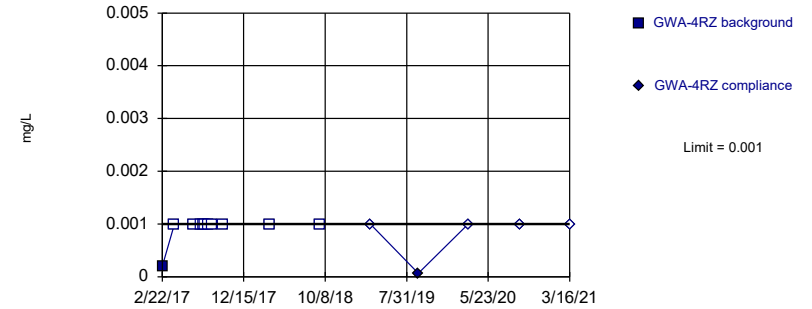


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

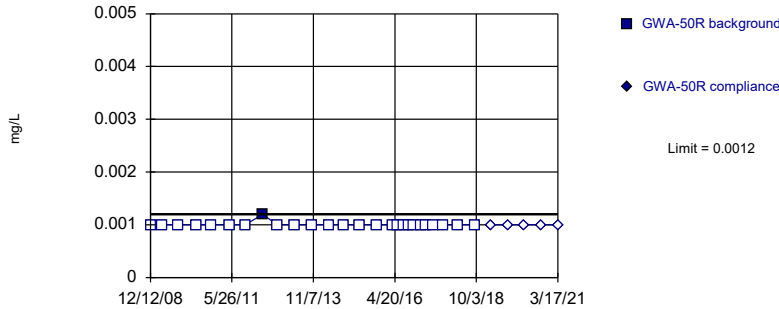


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

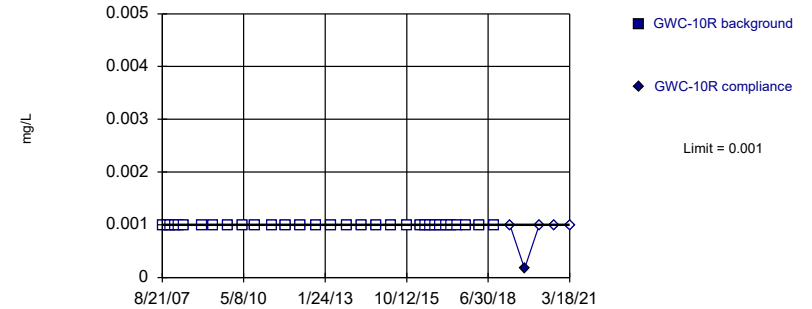


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

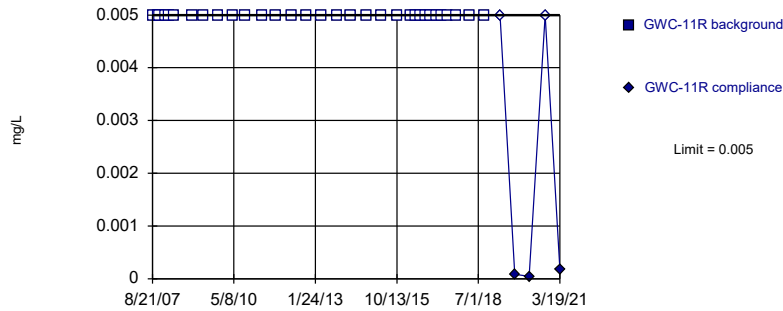


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

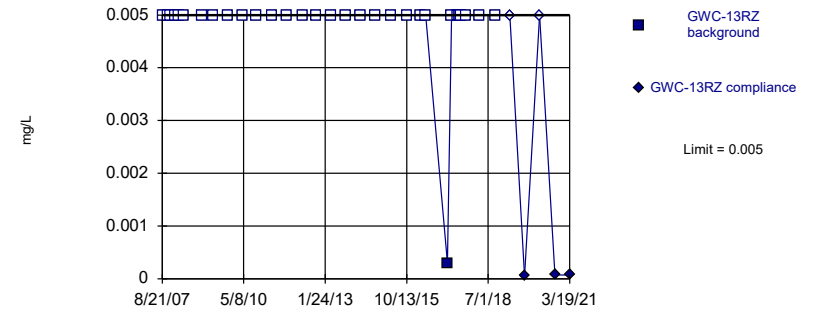


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

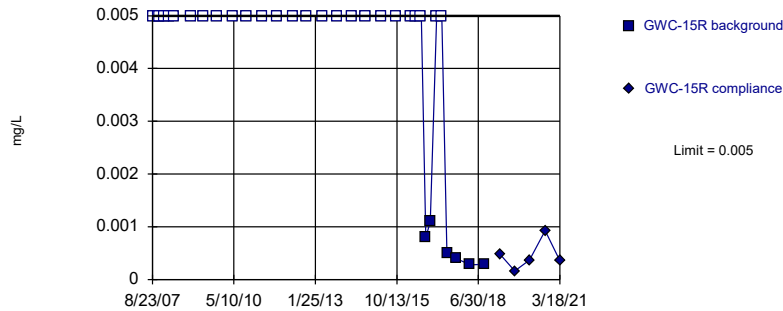


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

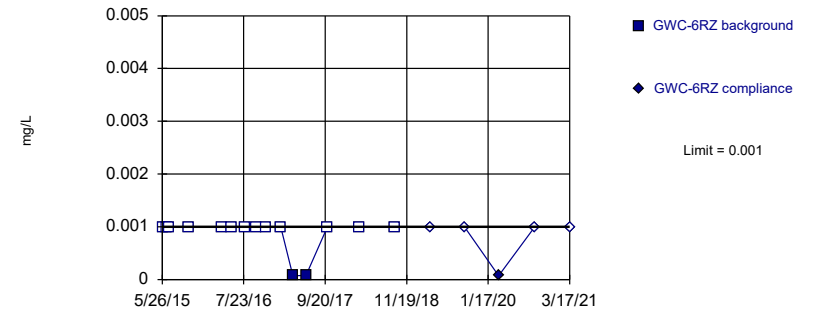


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

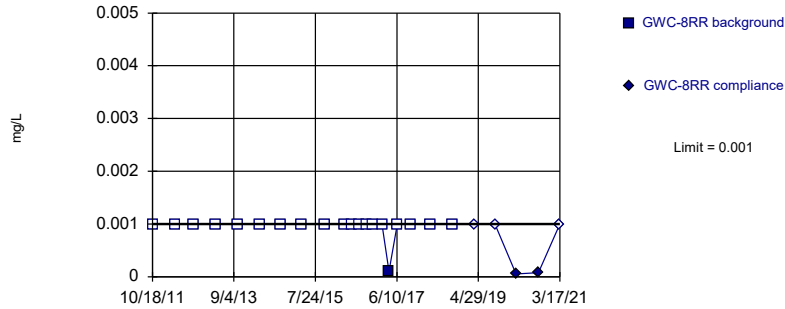


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

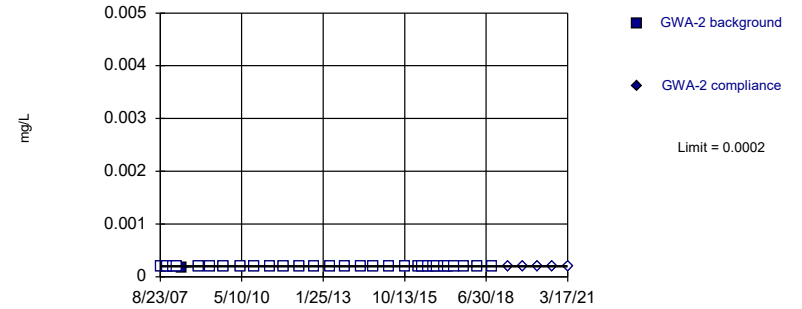


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

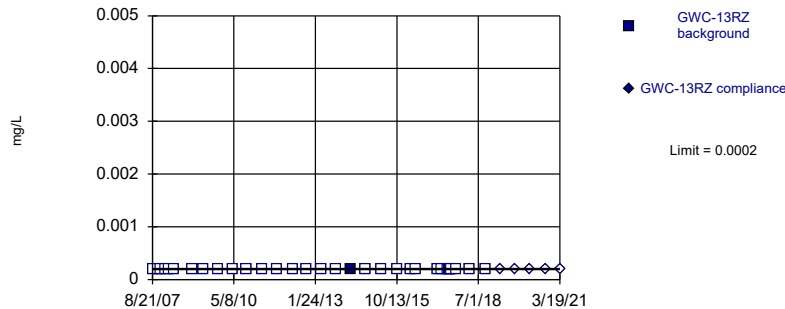


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

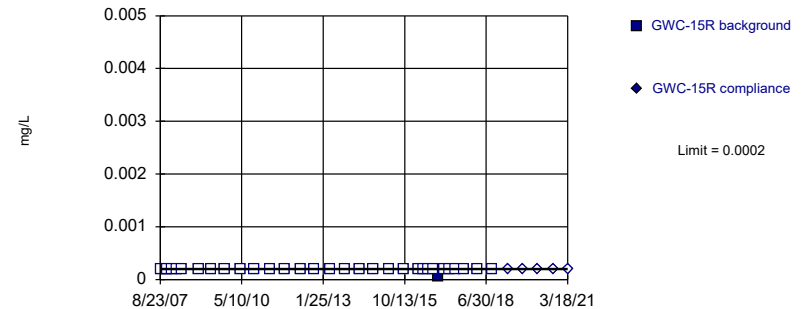


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

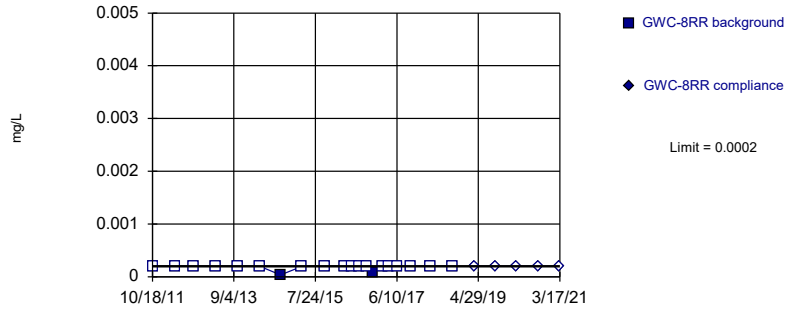


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

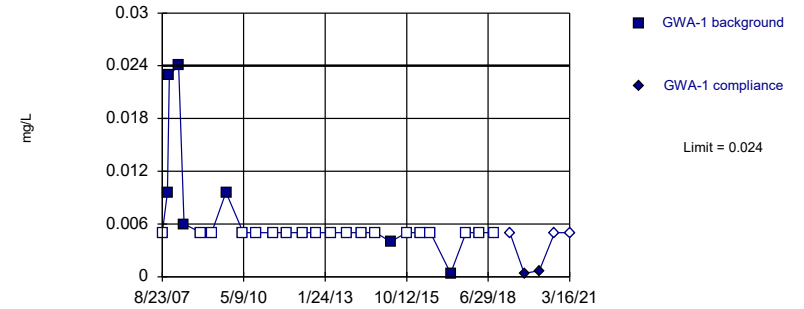


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

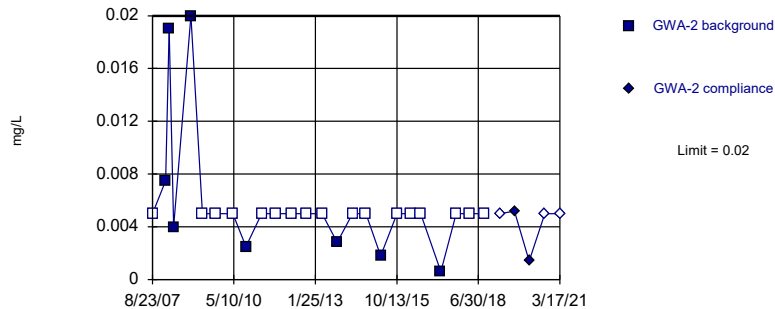


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

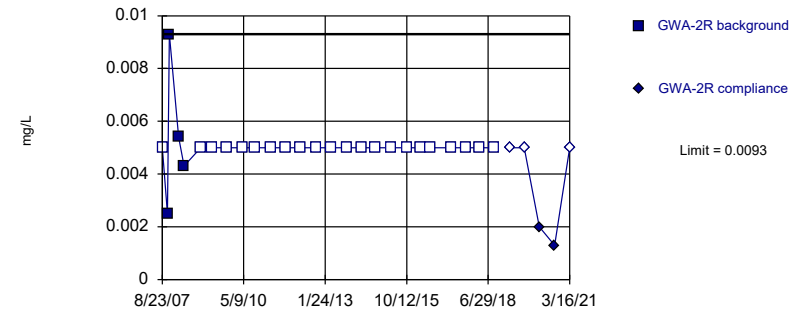


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

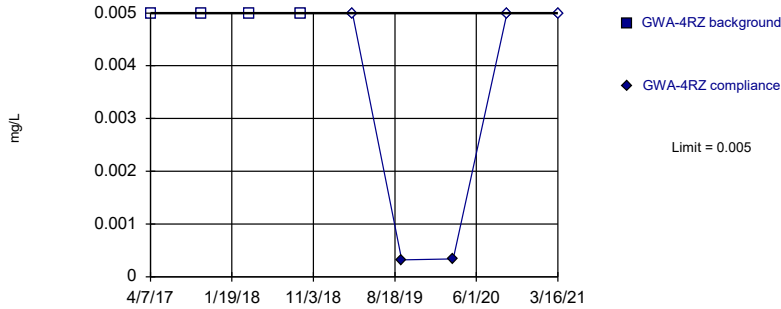


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 84.62% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

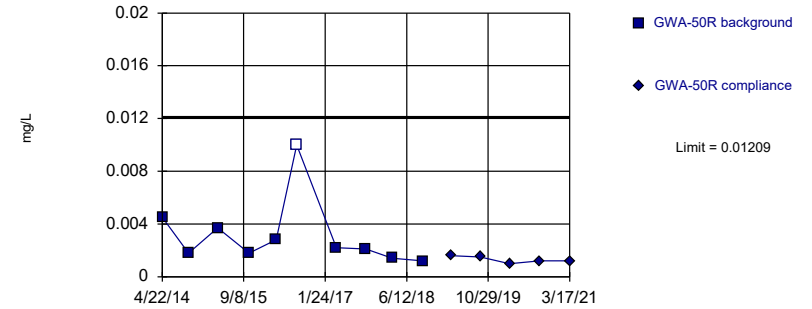


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 4) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.119. Individual comparison alpha = 0.06138 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

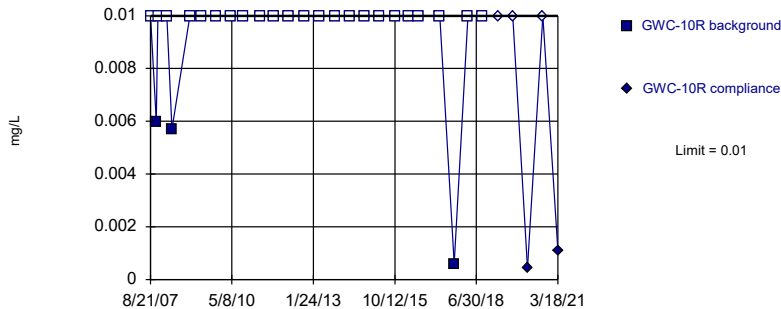


Background Data Summary (based on square root transformation): Mean=0.05305, Std. Dev.=0.01932, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8214, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

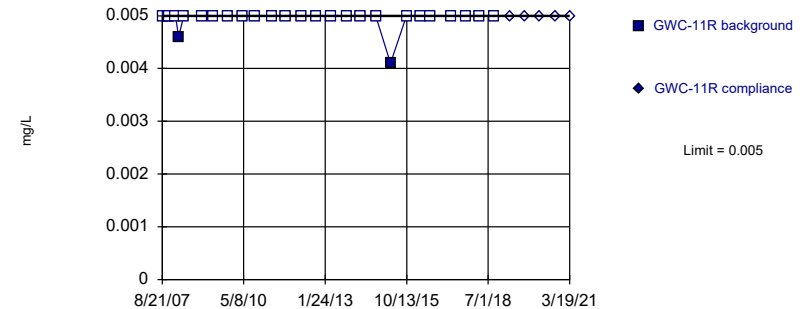


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

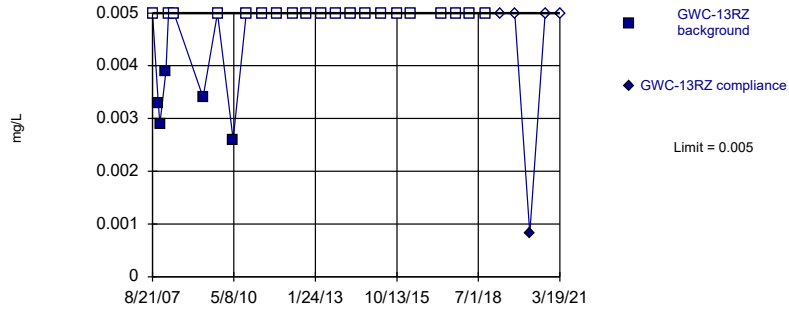


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

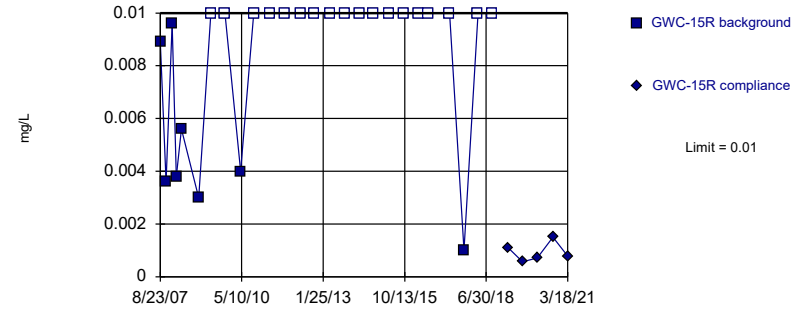


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

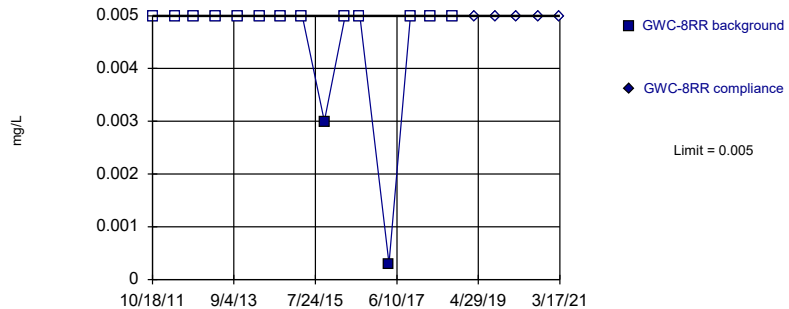


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

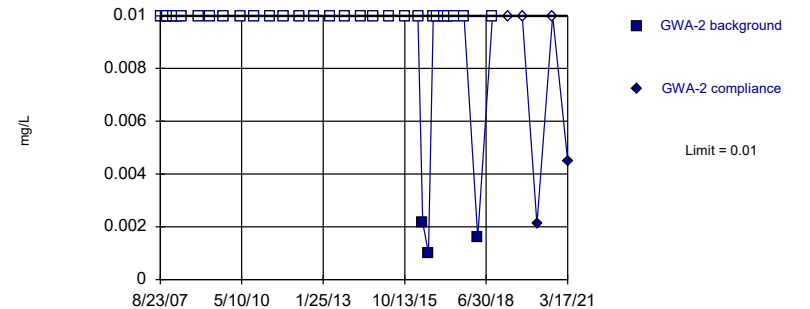


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

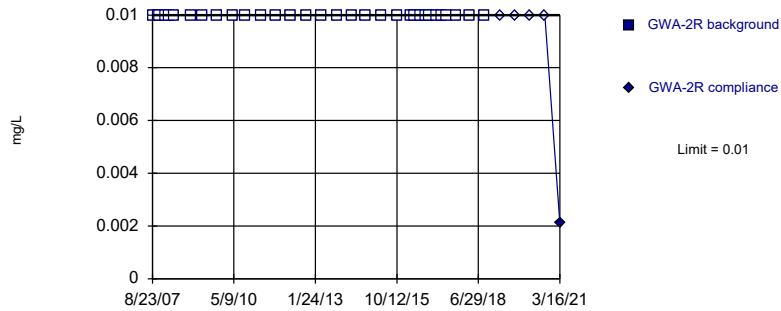


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

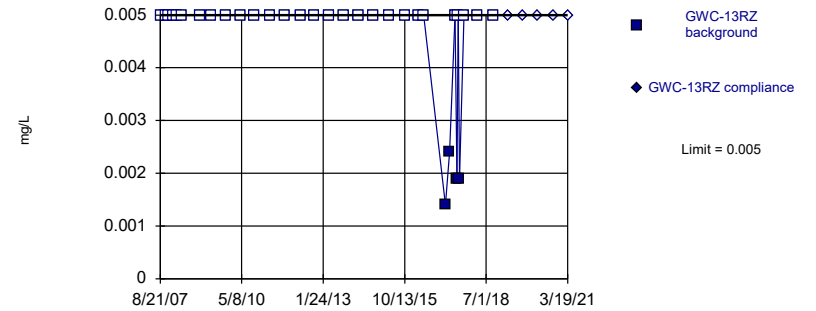


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

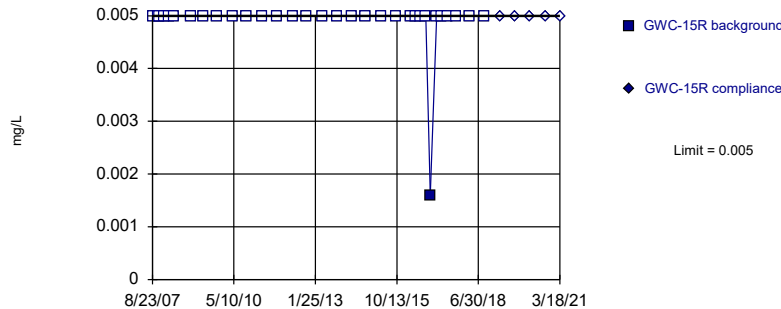


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

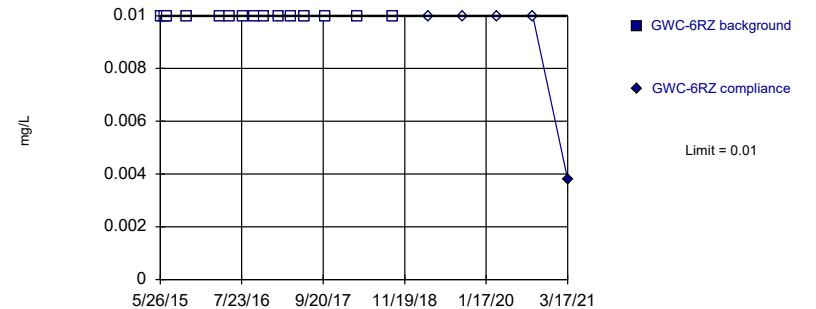


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

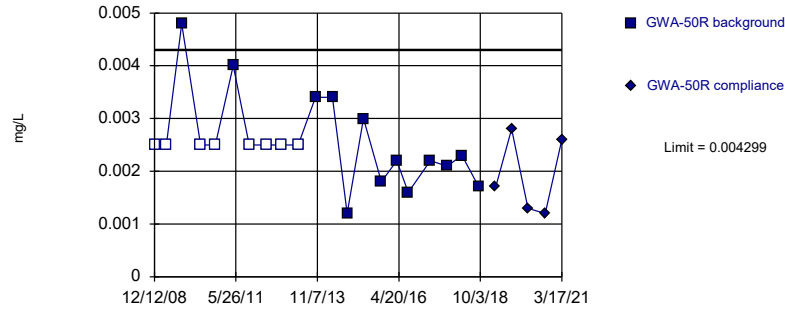


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Selenium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

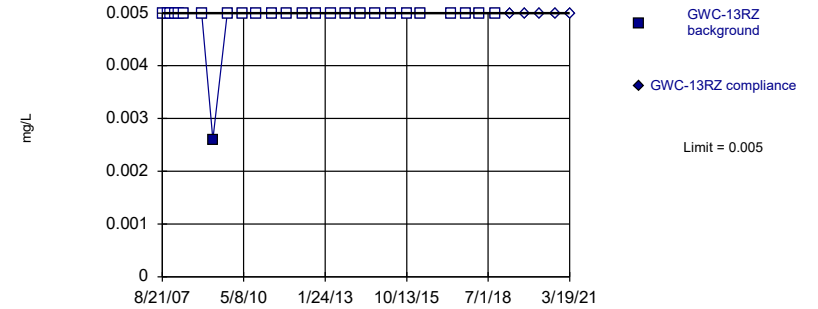


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002202, Std. Dev.=0.0008907, n=21, 38.1% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8968, critical = 0.873. Kappa = 2.354 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Silver Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

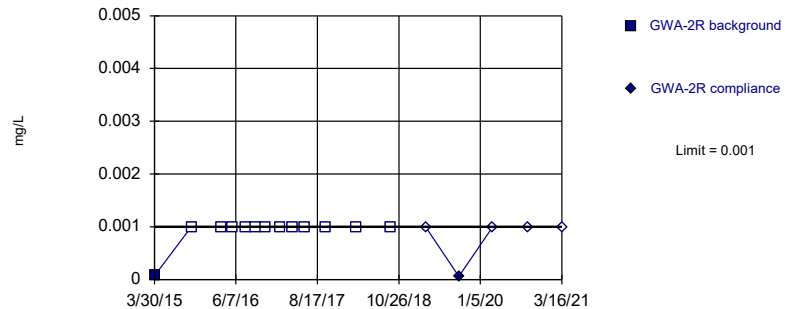


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Silver Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

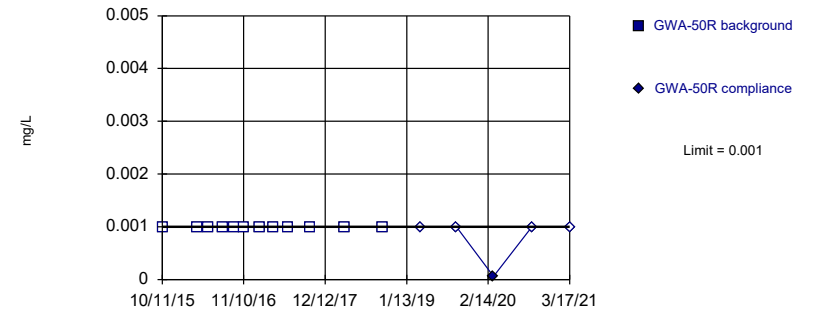


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Thallium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

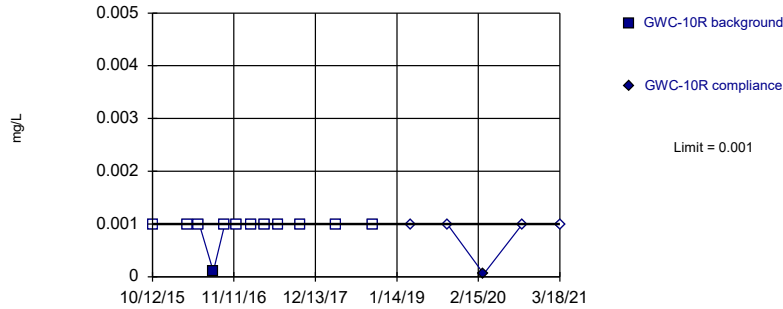


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

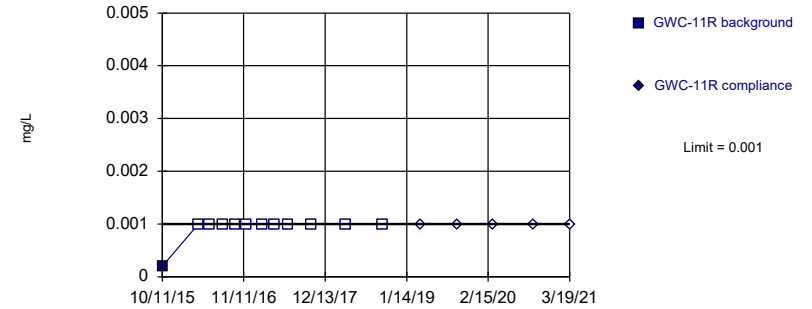


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

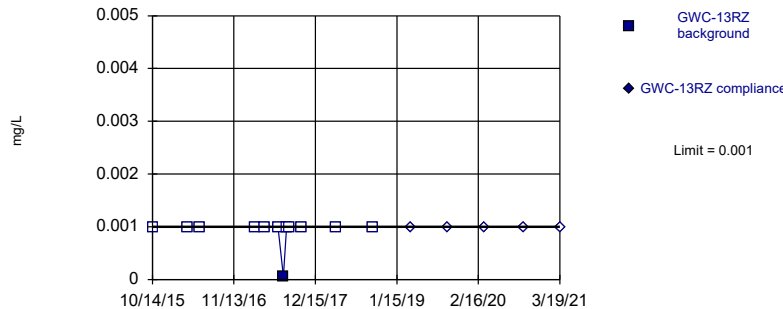


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

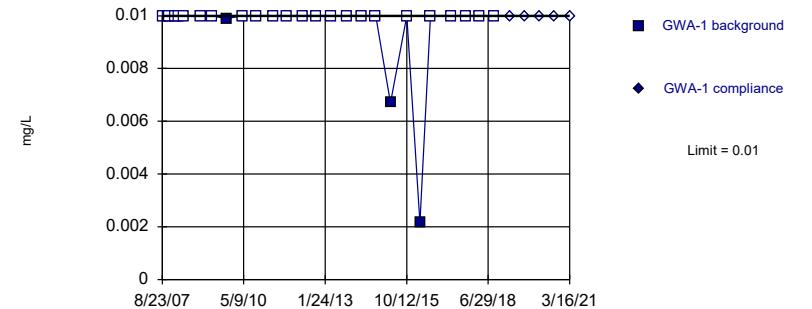


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Thallium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

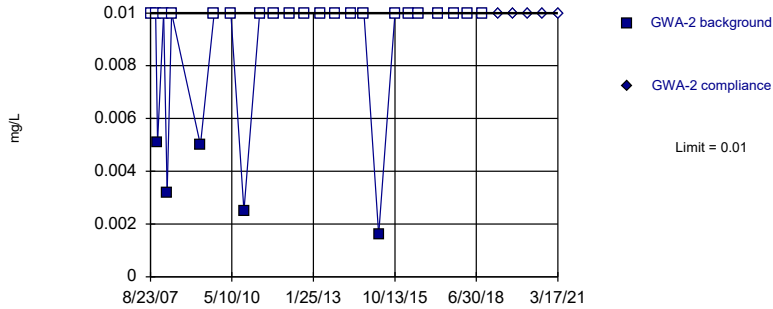


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:52 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

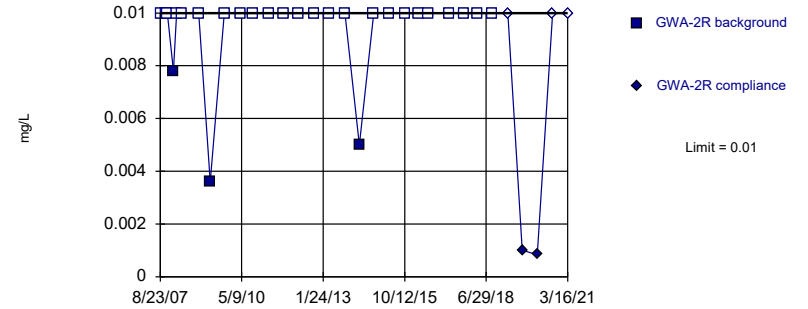


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

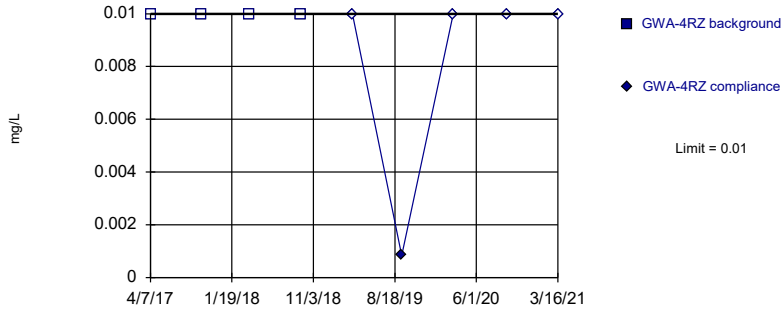


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

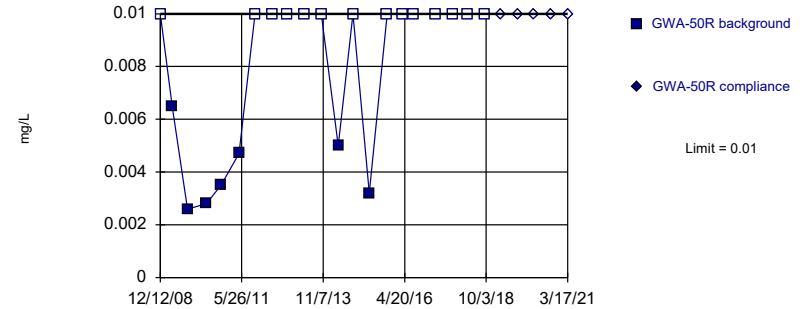


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 4) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.119. Individual comparison alpha = 0.06138 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

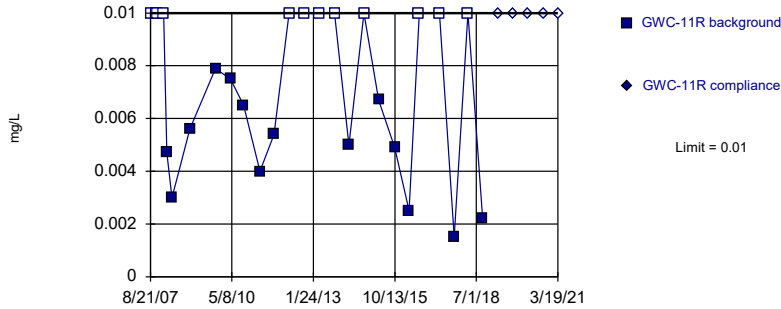


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

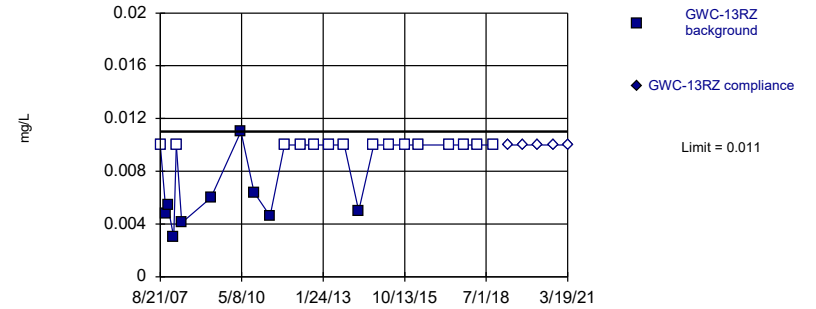


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 46.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

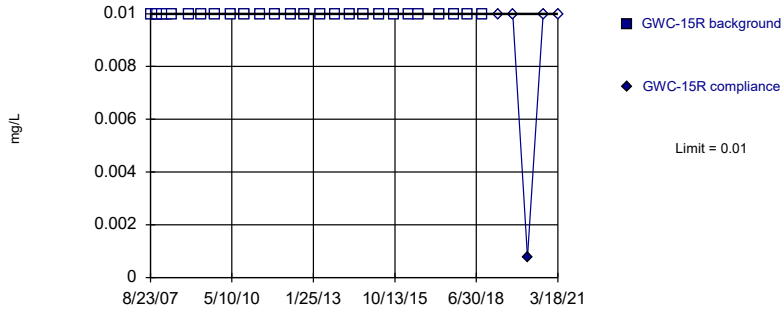


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

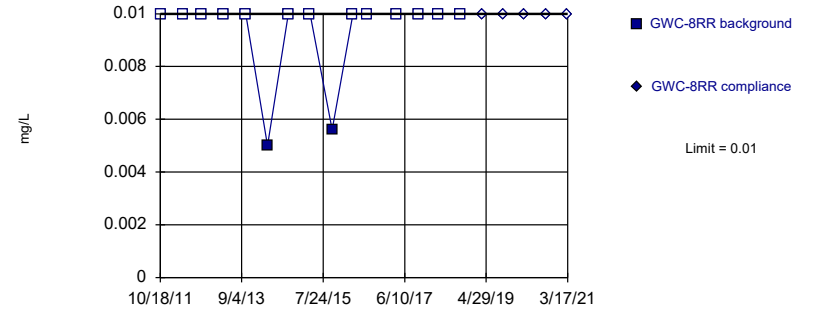


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

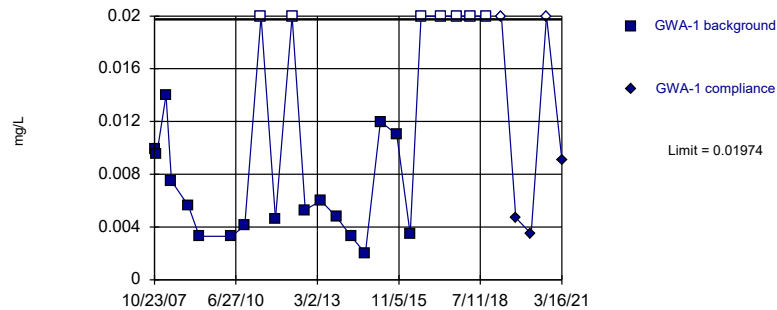


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

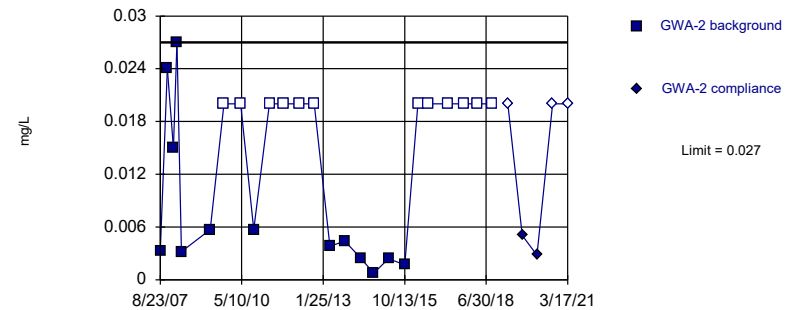


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.343, Std. Dev.=0.6168, n=24, 29.17% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8978, critical = 0.884. Kappa = 2.299 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

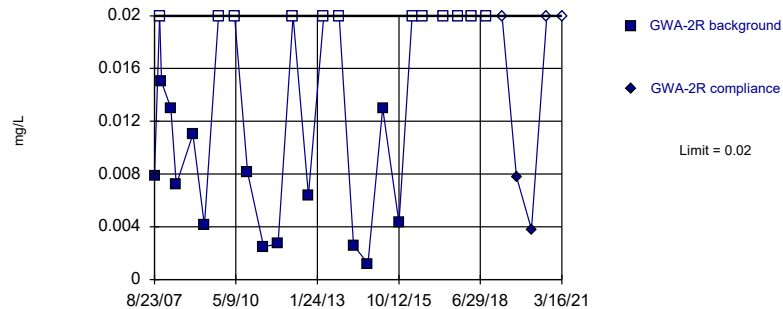


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 48% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

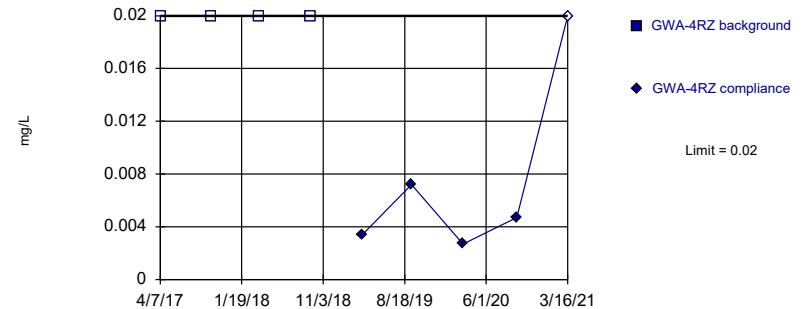


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 46.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

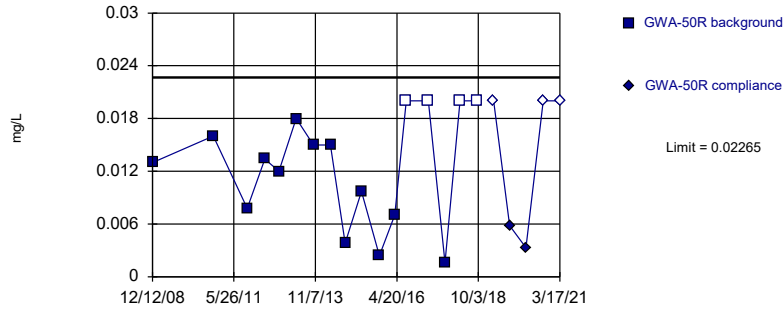


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 4) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.119. Individual comparison alpha = 0.06138 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

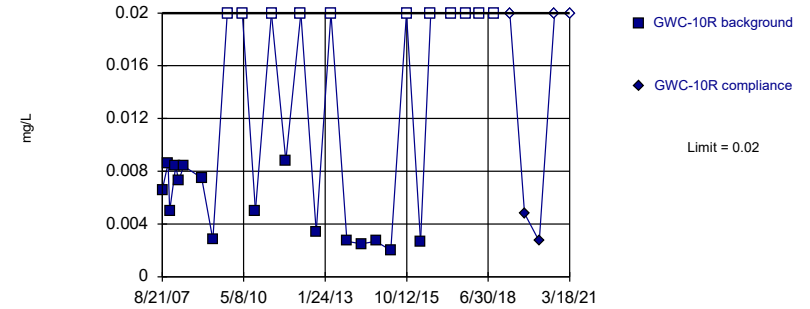


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.009815, Std. Dev.=0.005207, n=17, 23.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.851. Kappa = 2.466 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

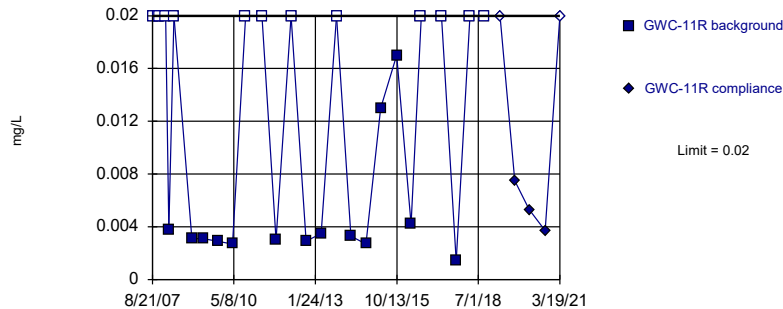


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

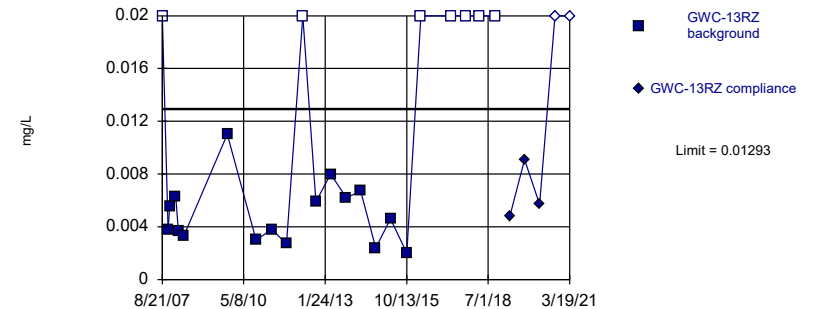


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

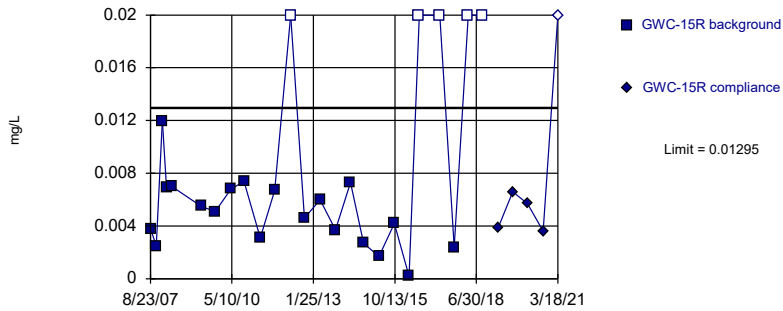


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.434, Std. Dev.=0.4686, n=23, 30.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8811, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

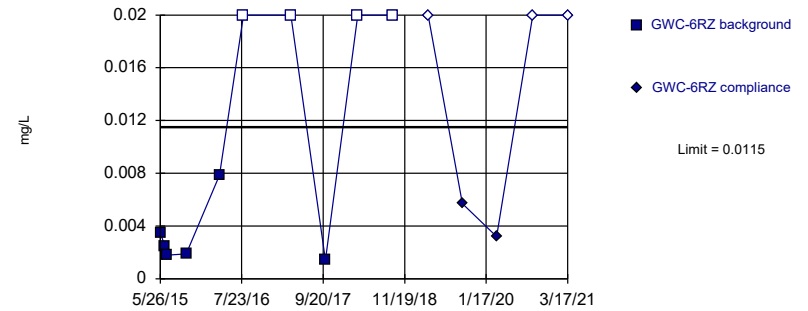


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0676, Std. Dev.=0.02025, n=25, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8967, critical = 0.888. Kappa = 2.281 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

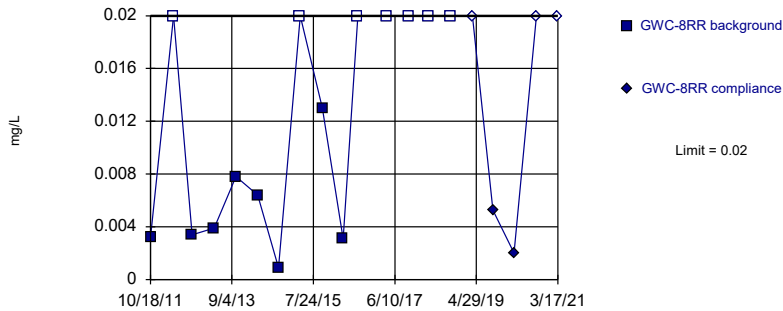


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1406, Std. Dev.=0.02888, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7914, critical = 0.781. Kappa = 2.945 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM 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. 46.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 4/30/2021 2:53 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0061
3/16/2021		0.0014 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0037
3/16/2021		0.005

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		0.00087 (J)
3/16/2021		0.00082 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.003	
4/23/2009	<0.003	
10/6/2009	<0.003	
5/3/2010	<0.003	
10/11/2010	<0.003	
4/27/2011	<0.003	
10/19/2011	<0.003	
5/1/2012	<0.003	
10/2/2012	<0.003	
4/10/2013	<0.003	
10/16/2013	<0.003	
4/22/2014	<0.003	
10/1/2014	<0.003	
3/30/2015	<0.003	
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
9/15/2020		0.00048 (J)
3/17/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		<0.003
3/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.0053
3/19/2021		0.012

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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)
9/22/2020		0.00079 (J)
3/19/2021		0.0011 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.0021 (J)
3/18/2021		0.00045 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/16/2020		<0.003
3/17/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		0.00082 (J)
3/17/2021		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.00081 (J)
3/16/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		0.0011 (J)
3/16/2021		0.00098 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.0012 (J)
3/19/2021		0.0013 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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)
9/22/2020		0.00086 (J)
3/19/2021		0.00084 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
6/13/2017	<0.005	
10/3/2017	<0.005	
3/20/2018	<0.005	
9/17/2018	<0.005	
3/21/2019		<0.005
9/16/2019		0.00038 (J)
3/12/2020		<0.005
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		0.019
3/16/2021		0.018

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		0.019
3/17/2021		0.025

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		0.013
3/16/2021		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		0.036
3/16/2021		0.042

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0089 (J)
3/17/2021		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		0.022
3/18/2021		0.027

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		0.016
3/19/2021		0.021

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		0.021
3/18/2021		0.02

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/16/2020		0.0066 (J)
3/17/2021		0.0072

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		0.014
3/17/2021		0.014

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
9/30/2014	<0.0005	
3/30/2015	0.00029 (J)	
10/13/2015	<0.0005	
3/22/2016	<0.0005	
5/19/2016	<0.0005	
7/29/2016	<0.0005	
9/23/2016	<0.0005	
11/9/2016	<0.0005	
1/30/2017	<0.0005	
3/30/2017	<0.0005	
6/9/2017	<0.0005	
10/2/2017	<0.0005	
3/16/2018	<0.0005	
9/17/2018	<0.0005 (D)	
3/20/2019		<0.0005
9/12/2019		<0.0005
3/11/2020		<0.0005
9/15/2020		<0.0005
3/16/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
10/1/2014	<0.0005	
3/30/2015	0.0002 (J)	
10/11/2015	<0.0005	
3/28/2016	<0.0005	
5/25/2016	<0.0005	
8/1/2016	<0.0005	
9/26/2016	<0.0005	
11/11/2016	<0.0005	
1/30/2017	<0.0005	
4/3/2017	<0.0005	
6/12/2017	<0.0005	
10/2/2017	<0.0005	
3/16/2018	<0.0005	
9/18/2018	<0.0005	
3/19/2019		<0.0005
9/12/2019		<0.0005
3/11/2020		<0.0005
9/15/2020		8.5E-05 (J)
3/17/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.0005 (D)	
7/2/2015	<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	
11/14/2016	<0.0005	
2/1/2017	<0.0005	
4/6/2017	<0.0005	
6/13/2017	<0.0005	
10/3/2017	<0.0005	
3/20/2018	6.8E-05 (J)	
9/17/2018	5.8E-05 (J)	
3/21/2019		7.6E-05 (J)
9/16/2019		<0.0005
3/12/2020		9.3E-05 (J)
9/16/2020		6.7E-05 (J)
3/17/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/2/2014	<0.0005	
4/3/2015	<0.0005	
10/8/2015	0.00025 (J)	
3/30/2016	<0.0005	
5/24/2016	<0.0005	
8/2/2016	<0.0005	
9/27/2016	<0.0005	
11/22/2016	<0.0005	
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
9/17/2020		<0.0005
3/17/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.001
3/16/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.001
3/19/2021		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.005	
10/23/2007	0.011	
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	<0.005	
4/15/2009	<0.005	
10/7/2009	0.0065	
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	0.0019	
10/16/2013	0.0024	
4/11/2014	0.0013 (J)	
9/30/2014	<0.005	
3/30/2015	0.0047	
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	0.0011 (J)	
1/30/2017	<0.005	
3/30/2017	<0.005	
6/9/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/17/2018	<0.005 (D)	
3/20/2019		<0.005
9/12/2019		<0.005
3/11/2020		0.0012 (J)
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
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	0.0013	
10/15/2013	0.0023	
4/22/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	0.0011 (J)	
10/13/2015	<0.005	
3/23/2016	<0.005	
5/20/2016	<0.005	
7/29/2016	<0.005	
9/23/2016	<0.005	
11/9/2016	<0.005	
1/31/2017	<0.005	
3/30/2017	<0.005	
6/12/2017	0.0008 (J)	
10/2/2017	<0.005	
3/19/2018	0.0031 (J)	
9/14/2018	<0.005	
3/20/2019		<0.005
9/12/2019		<0.005 (D)
3/11/2020		0.0025 (J)
9/15/2020		0.00086 (J)
3/17/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.005	
10/24/2007	0.0033	
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	<0.005	
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	<0.005	
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	<0.005	
9/22/2016	<0.005	
11/10/2016	<0.005	
1/31/2017	<0.005	
4/3/2017	<0.005	
6/9/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/13/2019		<0.005
3/11/2020		0.0042 (J)
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.005	
4/23/2009	0.0031	
10/6/2009	0.0024	
5/3/2010	<0.005	
10/11/2010	0.0028	
4/27/2011	0.0041	
10/19/2011	<0.005	
5/1/2012	<0.005	
10/2/2012	0.0019	
4/10/2013	0.0027	
10/16/2013	0.0029	
4/22/2014	0.0024	
10/1/2014	<0.005	
3/30/2015	0.0022	
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	0.0005 (J)	
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
9/15/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		<0.01
3/18/2021		0.002 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.0056 (J)
3/19/2021		0.0079

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-13RZ
8/21/2007	<0.005	
11/1/2007	0.0042	
11/19/2007	0.0049	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/12/2008	0.019 (o)	
4/29/2009	0.002	
10/21/2009	0.002	
4/28/2010	0.0049	
10/6/2010	<0.005	
4/20/2011	<0.005	
10/12/2011	<0.005	
4/25/2012	<0.005	
10/2/2012	0.0015	
4/2/2013	0.0017	
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 (D)	
6/1/2016	<0.005 (D)	
2/22/2017	0.0012 (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		<0.005
3/17/2020		0.002 (J)
9/22/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.0016 (J)
3/18/2021		0.00089 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/16/2020		0.0023 (J)
3/17/2021		0.0021 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		0.00086 (J)
3/17/2021		0.00079 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.00048 (J)
3/16/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.0083 (O)	
3/10/2008	<0.01	
5/13/2008	<0.01	
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	
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		<0.01
9/15/2020		0.001 (J)
3/16/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		0.019
3/16/2021		0.015

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
4/15/2009	<0.005	
10/7/2009	0.0076	
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 (J)	
9/30/2014	<0.005	
3/30/2015	0.0033 (J)	
10/13/2015	0.0013 (J)	
3/22/2016	<0.005	
7/29/2016	<0.005	
3/30/2017	0.0004 (J)	
10/2/2017	0.0003 (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
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.005	
10/24/2007	0.0088	
11/18/2007	0.0075	
1/31/2008	<0.005	
3/11/2008	0.0068	
5/6/2008	<0.005	
12/4/2008	0.013	
4/21/2009	<0.005	
10/7/2009	<0.005	
4/26/2010	<0.005	
10/4/2010	0.0027	
4/13/2011	0.0029	
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	
7/29/2016	0.0032 (J)	
3/30/2017	<0.005	
10/2/2017	<0.005	
3/19/2018	0.0025 (J)	
9/14/2018	<0.005	
3/20/2019		<0.005
9/12/2019		0.01273 (D)
3/11/2020		0.0002 (J)
9/15/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	0.0036	
10/24/2007	<0.005	
11/18/2007	0.013	
1/31/2008	0.0069	
3/10/2008	0.0044	
5/13/2008	0.0033	
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	<0.005	
4/10/2014	0.005 (J)	
9/30/2014	<0.005	
3/30/2015	<0.005	
10/13/2015	<0.005	
3/23/2016	<0.005	
7/29/2016	0.0006 (J)	
4/3/2017	0.0004 (J)	
10/2/2017	0.0003 (J)	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/13/2019		0.00055 (J)
3/11/2020		0.0011 (J)
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/21/2019		<0.005
9/12/2019		0.00045 (J)
3/12/2020		0.0002 (J)
9/17/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0031 (J)
3/17/2021		0.0024 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-10R	GWC-10R
8/21/2007	0.007	
11/1/2007	<0.005	
11/20/2007	0.0032	
1/30/2008	0.0039	
3/6/2008	<0.005	
5/8/2008	0.0039	
12/14/2008	0.0046	
4/29/2009	<0.005	
10/21/2009	<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	
10/8/2012	<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	
10/12/2015	<0.005	
3/31/2016	<0.005	
8/3/2016	<0.005	
4/10/2017	<0.005	
10/4/2017	<0.005	
3/21/2018	<0.005	
9/18/2018	<0.005	
3/22/2019		<0.005
9/17/2019		0.00029 (J)
3/12/2020		<0.005
9/17/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		<0.025
3/19/2021		0.0018 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-13RZ
8/21/2007	<0.005	
11/1/2007	<0.005	
11/19/2007	0.0043	
1/31/2008	<0.005	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/12/2008	0.013	
4/29/2009	0.0029	
10/21/2009	<0.005	
4/28/2010	0.0032	
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 (J)	
10/1/2014	<0.005	
3/31/2015	<0.005	
10/14/2015	<0.005	
4/4/2016	<0.005	
4/11/2017	<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		0.00021 (X)
3/17/2020		0.00045 (J)
9/22/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.02	
1/15/2008	0.0043	
3/6/2008	<0.005	
5/7/2008	0.0026	
12/2/2008	<0.005	
4/28/2009	0.003	
10/19/2009	<0.005	
4/27/2010	<0.005	
10/4/2010	0.0025	
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	0.00093 (J)	
4/5/2016	<0.005	
8/4/2016	0.0007 (J)	
4/12/2017	<0.005	
10/6/2017	0.0003 (J)	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/25/2019		<0.005
9/17/2019		<0.005
3/13/2020		0.00029 (J)
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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	
8/1/2016	<0.005	
4/6/2017	<0.005	
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		0.00028 (J)
9/16/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.002 (J)	
3/30/2016	<0.005	
8/2/2016	<0.005	
4/6/2017	<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		<0.005
9/17/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		9.3E-05 (J)
3/16/2021		5.2E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.001	
10/24/2007	<0.001	
11/18/2007	<0.001	
1/31/2008	<0.001	
3/11/2008	<0.001	
5/6/2008	<0.001	
12/4/2008	<0.001	
4/21/2009	<0.001	
10/7/2009	<0.001	
4/26/2010	<0.001	
10/4/2010	<0.001	
4/13/2011	<0.001	
10/5/2011	<0.001	
4/11/2012	<0.001	
10/9/2012	<0.001	
4/15/2013	<0.001	
10/15/2013	<0.001	
4/22/2014	<0.001	
9/30/2014	<0.001	
3/30/2015	<0.001	
10/13/2015	<0.001	
3/23/2016	<0.001	
5/20/2016	<0.001	
7/29/2016	0.0001 (J)	
9/23/2016	<0.001	
11/9/2016	<0.001	
1/31/2017	<0.001	
3/30/2017	<0.001	
6/12/2017	<0.001	
10/2/2017	<0.001	
3/19/2018	<0.001	
9/14/2018	<0.001	
3/20/2019		<0.001
9/12/2019		0.002536 (D)
3/11/2020		<0.001
9/15/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
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	<0.005	
9/22/2016	<0.005	
11/10/2016	<0.005	
1/31/2017	<0.005	
4/3/2017	<0.005	
6/9/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/13/2019		<0.005
3/11/2020		5.8E-05 (J)
9/15/2020		5E-05 (J)
3/16/2021		7E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.001	
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	
10/3/2017	<0.001	
3/21/2018	<0.001	
9/18/2018	<0.001	
3/21/2019		<0.001
9/12/2019		6.5E-05 (J)
3/12/2020		<0.001
9/17/2020		<0.001
3/16/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	<0.001	
4/23/2009	<0.001	
10/6/2009	<0.001	
5/3/2010	<0.001	
10/11/2010	<0.001	
4/27/2011	<0.001	
10/19/2011	<0.001	
5/1/2012	0.0012	
10/2/2012	<0.001	
4/10/2013	<0.001	
10/16/2013	<0.001	
4/22/2014	<0.001	
10/1/2014	<0.001	
3/30/2015	<0.001	
10/11/2015	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	<0.001	
11/11/2016	<0.001	
1/30/2017	<0.001	
4/3/2017	<0.001	
6/12/2017	<0.001	
10/2/2017	<0.001	
3/16/2018	<0.001	
9/18/2018	<0.001	
3/19/2019		<0.001
9/12/2019		<0.001
3/11/2020		<0.001
9/15/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.001	
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		0.00017 (J)
3/12/2020		<0.001
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.005	
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	<0.005	
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	
8/4/2016	<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	
3/22/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		8.2E-05 (J)
3/12/2020		4.6E-05 (J)
9/21/2020		<0.005
3/19/2021		0.00018 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		7.1E-05 (J)
3/19/2021		7.4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/21/2020		0.00093 (J)
3/18/2021		0.00036 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	<0.001	
6/18/2015	<0.001 (D)	
7/2/2015	<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	<0.001	
11/14/2016	<0.001	
2/1/2017	<0.001	
4/6/2017	7E-05 (J)	
6/13/2017	8E-05 (J)	
10/3/2017	<0.001	
3/20/2018	<0.001	
9/17/2018	<0.001	
3/21/2019		<0.001
9/16/2019		<0.001
3/12/2020		7E-05 (J)
9/16/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.001	
4/30/2012	<0.001	
10/3/2012	<0.001	
4/8/2013	<0.001	
10/9/2013	<0.001	
4/10/2014	<0.001	
10/2/2014	<0.001	
4/3/2015	<0.001	
10/8/2015	<0.001	
3/30/2016	<0.001	
5/24/2016	<0.001	
8/2/2016	<0.001	
9/27/2016	<0.001	
11/22/2016	<0.001	
2/6/2017	<0.001	
4/6/2017	0.0001 (J)	
6/14/2017	<0.001	
10/4/2017	<0.001	
3/21/2018	<0.001	
9/18/2018	<0.001	
3/27/2019		<0.001
9/16/2019		<0.001 (D)
3/12/2020		5.6E-05 (J)
9/17/2020		8E-05 (J)
3/17/2021		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.0002	
10/24/2007	<0.0002	
11/18/2007	<0.0002	
1/31/2008	<0.0002	
3/11/2008	<0.0002	
5/6/2008	0.000175	
12/4/2008	<0.0002	
4/21/2009	<0.0002	
10/7/2009	<0.0002	
4/26/2010	<0.0002	
10/4/2010	<0.0002	
4/13/2011	<0.0002	
10/5/2011	<0.0002	
4/11/2012	<0.0002	
10/9/2012	<0.0002	
4/15/2013	<0.0002	
10/15/2013	<0.0002	
4/22/2014	<0.0002	
9/30/2014	<0.0002	
3/30/2015	<0.0002	
10/13/2015	<0.0002	
3/23/2016	<0.0002	
5/20/2016	<0.0002	
7/29/2016	<0.0002	
9/23/2016	<0.0002	
11/9/2016	<0.0002	
1/31/2017	<0.0002	
3/30/2017	<0.0002	
6/12/2017	<0.0002	
10/2/2017	<0.0002	
3/19/2018	<0.0002	
9/14/2018	<0.0002	
3/20/2019		<0.0002
9/12/2019		<0.0002 (D)
3/11/2020		<0.0002
9/15/2020		<0.0002
3/17/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-13RZ
8/21/2007	<0.0002	
11/1/2007	<0.0002	
11/19/2007	<0.0002	
1/31/2008	<0.0002	
3/5/2008	<0.0002	
5/7/2008	<0.0002	
12/12/2008	<0.0002	
4/29/2009	<0.0002	
10/21/2009	<0.0002	
4/28/2010	<0.0002	
10/6/2010	<0.0002	
4/20/2011	<0.0002	
10/12/2011	<0.0002	
4/25/2012	<0.0002	
10/2/2012	<0.0002	
4/2/2013	<0.0002	
10/8/2013	<0.0002	
4/1/2014	0.0002 (J)	
10/1/2014	<0.0002	
3/31/2015	<0.0002	
10/14/2015	<0.0002	
4/4/2016	<0.0002	
6/1/2016	<0.0002	
2/22/2017	<0.0002	
4/11/2017	<0.0002	
6/16/2017	<0.0002	
7/12/2017	<0.0002	
7/28/2017	<0.0002	
8/10/2017	<0.0002	
10/6/2017	<0.0002	
3/23/2018	<0.0002	
9/20/2018	<0.0002	
3/22/2019		<0.0002
9/18/2019		<0.0002
3/17/2020		<0.0002
9/22/2020		<0.0002
3/19/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	<0.0002	
11/2/2007	<0.0002	
11/17/2007	<0.0002	
1/15/2008	<0.0002	
3/6/2008	<0.0002	
5/7/2008	<0.0002	
12/2/2008	<0.0002	
4/28/2009	<0.0002	
10/19/2009	<0.0002	
4/27/2010	<0.0002	
10/4/2010	<0.0002	
4/18/2011	<0.0002	
10/12/2011	<0.0002	
4/23/2012	<0.0002	
10/10/2012	<0.0002	
4/15/2013	<0.0002	
10/22/2013	<0.0002	
4/21/2014	<0.0002	
9/30/2014	<0.0002	
4/3/2015	<0.0002	
10/7/2015	<0.0002	
4/5/2016	<0.0002	
5/31/2016	<0.0002	
8/4/2016	<0.0002	
9/29/2016	<0.0002	
11/23/2016	5E-05 (J)	
2/10/2017	<0.0002	
4/12/2017	<0.0002	
6/15/2017	<0.0002	
10/6/2017	<0.0002	
3/23/2018	<0.0002	
9/19/2018	<0.0002	
3/25/2019		<0.0002
9/17/2019		<0.0002
3/13/2020		<0.0002
9/21/2020		<0.0002
3/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	<0.0002	
4/30/2012	<0.0002	
10/3/2012	<0.0002	
4/8/2013	<0.0002	
10/9/2013	<0.0002	
4/10/2014	<0.0002	
10/2/2014	3.83E-05 (J)	
4/3/2015	<0.0002	
10/8/2015	<0.0002	
3/30/2016	<0.0002	
5/24/2016	<0.0002	
8/2/2016	<0.0002	
9/27/2016	<0.0002	
11/22/2016	8E-05 (J)	
2/6/2017	<0.0002	
4/6/2017	<0.0002	
6/14/2017	<0.0002	
10/4/2017	<0.0002	
3/21/2018	<0.0002	
9/18/2018	<0.0002	
3/27/2019		<0.0002
9/16/2019		<0.0002 (D)
3/12/2020		<0.0002
9/17/2020		<0.0002
3/17/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1	GWA-1
8/23/2007	<0.005	
10/23/2007	0.0096	
11/18/2007	0.023	
1/30/2008	0.11 (o)	
3/10/2008	0.024	
5/13/2008	0.006	
12/5/2008	<0.005	
4/15/2009	<0.005	
10/7/2009	0.0096	
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	0.004	
10/13/2015	<0.005	
3/22/2016	<0.005	
7/29/2016	<0.005	
3/30/2017	0.0004 (J)	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/17/2018	<0.005 (D)	
3/20/2019		<0.005
9/12/2019		0.00038 (J)
3/11/2020		0.00068 (J)
9/15/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	<0.005	
10/24/2007	0.026 (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	<0.005	
10/7/2009	<0.005	
4/26/2010	<0.005	
10/4/2010	0.0025	
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	0.0028	
4/22/2014	<0.005	
9/30/2014	<0.005	
3/30/2015	0.0018 (J)	
10/13/2015	<0.005	
3/23/2016	<0.005	
7/29/2016	<0.005	
3/30/2017	0.0006 (J)	
10/2/2017	<0.005	
3/19/2018	<0.005	
9/14/2018	<0.005	
3/20/2019		<0.005
9/12/2019		0.00518 (D)
3/11/2020		0.0014 (J)
9/15/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	<0.005	
10/24/2007	0.0025	
11/18/2007	0.0093	
1/31/2008	0.054 (o)	
3/10/2008	0.0054	
5/13/2008	0.0043	
12/4/2008	<0.005	
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	<0.005	
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	
7/29/2016	<0.005	
4/3/2017	<0.005	
10/2/2017	<0.005	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/13/2019		<0.005
3/11/2020		0.002 (J)
9/15/2020		0.0013 (J)
3/16/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
4/7/2017	<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		0.00032 (J)
3/12/2020		0.00034 (J)
9/17/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0012 (J)
3/17/2021		0.0012 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		<0.01
3/18/2021		0.0011 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.0046	
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	
9/29/2010	<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	<0.005	
4/2/2014	<0.005	
10/2/2014	<0.005	
4/1/2015	0.0041	
10/11/2015	<0.005	
4/4/2016	<0.005	
8/4/2016	<0.005	
4/10/2017	<0.005	
10/4/2017	<0.005	
3/22/2018	<0.005	
9/18/2018	<0.005	
3/23/2019		<0.005
9/17/2019		<0.005
3/12/2020		<0.005
9/21/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-13RZ
8/21/2007	<0.005	
11/1/2007	0.0033	
11/19/2007	0.0029	
1/31/2008	0.0039	
3/5/2008	<0.005	
5/7/2008	<0.005	
12/12/2008	0.022 (O)	
4/29/2009	0.0034	
10/21/2009	<0.005	
4/28/2010	0.0026	
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	
4/11/2017	<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		<0.005
3/17/2020		0.00082 (J)
9/22/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.0089	
11/2/2007	0.0036	
11/17/2007	0.014 (O)	
1/15/2008	0.0096	
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)
9/21/2020		0.0015 (J)
3/18/2021		0.00079 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.003	
3/30/2016	<0.005	
8/2/2016	<0.005	
4/6/2017	0.0003 (J)	
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		<0.005
9/17/2020		<0.005
3/17/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		<0.01
3/17/2021		0.0045 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.01	
3/10/2008	<0.01	
5/13/2008	<0.01	
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	
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		<0.01
9/15/2020		<0.01
3/16/2021		0.0021 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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	0.0014 (J)	
4/11/2017	0.0024 (J)	
6/16/2017	<0.005	
7/12/2017	0.0019 (J)	
7/28/2017	<0.005	
8/10/2017	0.0019 (J)	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/20/2018	<0.005	
3/22/2019		<0.005
9/18/2019		<0.005
3/17/2020		<0.005
9/22/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 3:12 PM 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	0.0016 (J)	
2/10/2017	<0.005	
4/12/2017	<0.005	
6/15/2017	<0.005	
10/6/2017	<0.005	
3/23/2018	<0.005	
9/19/2018	<0.005	
3/25/2019		<0.005
9/17/2019		<0.005
3/13/2020		<0.005
9/21/2020		<0.005
3/18/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
5/26/2015	<0.01	
6/18/2015	<0.01 (D)	
7/2/2015	<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	
11/14/2016	<0.01	
2/1/2017	<0.01	
4/6/2017	<0.01	
6/13/2017	<0.01	
10/3/2017	<0.01	
3/20/2018	<0.01	
9/17/2018	<0.01	
3/21/2019		<0.01
9/16/2019		<0.01
3/12/2020		<0.01
9/16/2020		<0.01
3/17/2021		0.0038 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		0.0012 (J)
3/17/2021		0.0026 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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	0.0026	
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	
4/11/2017	<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		<0.005
3/17/2020		<0.005
9/22/2020		<0.005
3/19/2021		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.001
3/16/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
10/11/2015	<0.001	
3/28/2016	<0.001	
5/25/2016	<0.001	
8/1/2016	<0.001	
9/26/2016	<0.001	
11/11/2016	<0.001	
1/30/2017	<0.001	
4/3/2017	<0.001	
6/12/2017	<0.001	
10/2/2017	<0.001	
3/16/2018	<0.001	
9/18/2018	<0.001	
3/19/2019		<0.001
9/12/2019		<0.001
3/11/2020		5.9E-05 (J)
9/15/2020		<0.001
3/17/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/17/2020		<0.001
3/18/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.001
3/19/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		<0.001
3/19/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.01
3/16/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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)
9/15/2020		<0.01
3/16/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
4/7/2017	<0.01	
10/3/2017	<0.01	
3/21/2018	<0.01	
9/18/2018	<0.01	
3/21/2019		<0.01
9/12/2019		0.00084 (J)
3/12/2020		<0.01
9/17/2020		<0.01
3/16/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/15/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/21/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		<0.01
3/19/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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	
8/4/2016	<0.01	
4/12/2017	<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		0.00077 (J)
9/21/2020		<0.01
3/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/30/2021 3:12 PM 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
9/17/2020		<0.01
3/17/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.02	
10/17/2011	0.0046	
5/2/2012	<0.02	
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	<0.02	
3/30/2017	<0.02	
10/2/2017	<0.02	
3/16/2018	<0.02	
9/17/2018	<0.02 (D)	
3/20/2019		<0.02
9/12/2019		0.0047 (J)
3/11/2020		0.0035 (J)
9/15/2020		<0.02
3/16/2021		0.0091 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2	GWA-2
8/23/2007	0.0033	
10/24/2007	0.043 (o)	
11/18/2007	0.024	
1/31/2008	0.015	
3/11/2008	0.027	
5/6/2008	0.0032	
12/4/2008	0.081 (o)	
4/21/2009	0.0057	
10/7/2009	<0.02	
4/26/2010	<0.02	
10/4/2010	0.0057	
4/13/2011	<0.02	
10/5/2011	<0.02	
4/11/2012	<0.02	
10/9/2012	<0.02	
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	<0.02	
7/29/2016	<0.02	
3/30/2017	<0.02	
10/2/2017	<0.02	
3/19/2018	<0.02	
9/14/2018	<0.02	
3/20/2019		<0.02
9/12/2019		0.00505 (JD)
3/11/2020		0.0028 (J)
9/15/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-2R	GWA-2R
8/23/2007	0.0079	
10/24/2007	<0.02	
11/18/2007	0.015	
1/31/2008	0.063 (O)	
3/10/2008	0.013 (J)	
5/13/2008	0.0072	
12/4/2008	0.011 (J)	
4/21/2009	0.0041	
10/8/2009	<0.02	
4/21/2010	<0.02	
9/28/2010	0.0081	
4/12/2011	0.0025	
10/4/2011	0.0027	
4/3/2012	<0.02	
10/9/2012	0.0064	
4/11/2013	<0.02	
10/16/2013	<0.02	
4/10/2014	0.0026	
9/30/2014	0.0012 (J)	
3/30/2015	0.013	
10/13/2015	0.0043	
3/23/2016	<0.02	
7/29/2016	<0.02	
4/3/2017	<0.02	
10/2/2017	<0.02	
3/16/2018	<0.02	
9/14/2018	<0.02	
3/19/2019		<0.02
9/13/2019		0.0078 (J)
3/11/2020		0.0038 (J)
9/15/2020		<0.02
3/16/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-4RZ	GWA-4RZ
4/7/2017	<0.02	
10/3/2017	<0.02	
3/21/2018	<0.02	
9/18/2018	<0.02	
3/21/2019		0.0034 (J)
9/12/2019		0.0072 (J)
3/12/2020		0.0027 (J)
9/17/2020		0.0047 (J)
3/16/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50R	GWA-50R
12/12/2008	0.013 (J)	
4/23/2009	0.075 (o)	
10/6/2009	0.056 (o)	
5/3/2010	0.051 (o)	
10/11/2010	0.016	
4/27/2011	0.025 (o)	
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	<0.02	
4/3/2017	<0.02	
10/2/2017	0.0016 (J)	
3/16/2018	<0.02	
9/18/2018	<0.02	
3/19/2019		<0.02
9/12/2019		0.0058 (J)
3/11/2020		0.0033 (J)
9/15/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM 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	<0.02	
4/21/2010	<0.02	
9/28/2010	0.005	
4/12/2011	<0.02	
10/4/2011	0.0088	
4/3/2012	<0.02	
10/8/2012	0.0034	
4/3/2013	<0.02	
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	<0.02	
3/31/2016	0.00266 (J)	
8/3/2016	<0.02	
4/10/2017	<0.02	
10/4/2017	<0.02	
3/21/2018	<0.02	
9/18/2018	<0.02	
3/22/2019		<0.02
9/17/2019		0.0048 (J)
3/12/2020		0.0027 (J)
9/17/2020		<0.02
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWC-11R
8/21/2007	<0.02	
11/1/2007	<0.02	
11/18/2007	<0.02	
1/30/2008	<0.02	
3/6/2008	0.0038	
5/7/2008	<0.02	
12/14/2008	0.0031 (J)	
4/29/2009	0.0031	
10/22/2009	0.0029	
4/21/2010	0.0027	
9/29/2010	<0.02	
4/13/2011	<0.02	
10/4/2011	0.003	
4/4/2012	<0.02	
10/3/2012	0.0029	
4/3/2013	0.0035	
10/9/2013	<0.02	
4/2/2014	0.0033	
10/2/2014	0.0027	
4/1/2015	0.013	
10/11/2015	0.017	
4/4/2016	0.00419 (J)	
8/4/2016	<0.02	
4/10/2017	<0.02	
10/4/2017	0.0014 (J)	
3/22/2018	<0.02	
9/18/2018	<0.02	
3/23/2019		<0.02
9/17/2019		0.0075 (J)
3/12/2020		0.0053 (J)
9/21/2020		0.0037 (J)
3/19/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-13RZ
8/21/2007	<0.02	
11/1/2007	0.0038	
11/19/2007	0.0055	
1/31/2008	0.0063	
3/5/2008	0.0037	
5/7/2008	0.0033	
12/12/2008	0.097 (O)	
4/29/2009	0.068 (O)	
10/21/2009	0.011	
4/28/2010	0.048 (O)	
10/6/2010	0.003	
4/20/2011	0.0038	
10/12/2011	0.0027	
4/25/2012	<0.02	
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	<0.02	
4/11/2017	<0.02	
10/6/2017	<0.02	
3/23/2018	<0.02	
9/20/2018	<0.02	
3/22/2019		0.0048 (J)
9/18/2019		0.0091 (X)
3/17/2020		0.0057 (J)
9/22/2020		<0.02
3/19/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15R	GWC-15R
8/23/2007	0.0038	
11/2/2007	0.0025	
11/17/2007	0.023 (O)	
1/15/2008	0.012	
3/6/2008	0.0069	
5/7/2008	0.007	
12/2/2008	0.021 (O)	
4/28/2009	0.0055	
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	<0.02	
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	<0.02	
4/12/2017	<0.02	
10/6/2017	0.0024 (J)	
3/23/2018	<0.02	
9/19/2018	<0.02	
3/25/2019		0.0039 (J)
9/17/2019		0.0066 (J)
3/13/2020		0.0057 (J)
9/21/2020		0.0036 (J)
3/18/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6RZ	GWC-6RZ
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	<0.02	
4/6/2017	<0.02	
10/3/2017	0.0014 (J)	
3/20/2018	<0.02	
9/17/2018	<0.02	
3/21/2019		<0.02
9/16/2019		0.0057 (J)
3/12/2020		0.0032 (J)
9/16/2020		<0.02
3/17/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/30/2021 3:12 PM View: Bedrock
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-8RR	GWC-8RR
10/18/2011	0.0032	
4/30/2012	<0.02	
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	<0.02	
10/8/2015	0.013	
3/30/2016	0.00308 (J)	
8/2/2016	<0.02	
4/6/2017	<0.02	
10/4/2017	<0.02	
3/21/2018	<0.02	
9/18/2018	<0.02	
3/27/2019		<0.02
9/16/2019		0.00525 (JD)
3/12/2020		0.002 (J)
9/17/2020		<0.02
3/17/2021		<0.02

FIGURE F.

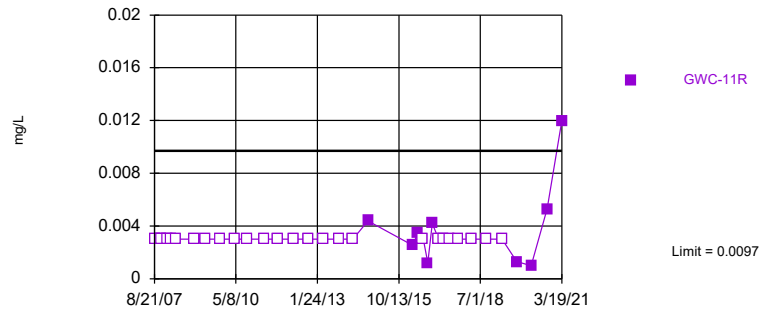
Appendix I Bedrock Interwell Prediction Limits - All Results (All Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0097	n/a	3/19/2021	0.012	Yes	154	n/a	n/a	70.13	n/a	n/a	0.00008349	NP Inter (NDs) 1 of 2

Exceeds Limit: GWC-11R

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 154 background values. 70.13% NDs. Annual per-constituent alpha = 0.0008346. Individual comparison alpha = 0.00008349 (1 of 2). Assumes 4 future values.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:14 AM View: Bedrock - Interwell PLs

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWA-1 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWA-50R (bg)	GWA-4RZ (bg)
8/21/2007	<0.003					
8/23/2007		<0.003	<0.003	<0.003		
10/23/2007		<0.003				
10/24/2007			<0.003	<0.003		
11/1/2007	<0.003					
11/18/2007	<0.003	<0.003	<0.003	<0.003		
1/30/2008	<0.003	<0.003				
1/31/2008			<0.003	<0.003		
3/6/2008	<0.003					
3/10/2008		<0.003	<0.003			
3/11/2008				<0.003		
5/6/2008				<0.003		
5/7/2008	<0.003					
5/13/2008		<0.003	<0.003			
12/4/2008			<0.003	<0.003		
12/5/2008		<0.003				
12/12/2008					<0.003	
12/14/2008	<0.003					
4/15/2009		<0.003				
4/21/2009			<0.003	<0.003		
4/23/2009					<0.003	
4/29/2009	<0.003					
10/6/2009					<0.003	
10/7/2009		<0.003		<0.003		
10/8/2009			<0.003			
10/22/2009	<0.003					
4/21/2010	<0.003		<0.003			
4/26/2010				<0.003		
5/3/2010		<0.003			<0.003	
9/28/2010			<0.003			
9/29/2010	<0.003					
10/4/2010				<0.003		
10/11/2010					<0.003	
10/12/2010		<0.003				
4/12/2011			<0.003			
4/13/2011	<0.003			<0.003		
4/27/2011		<0.003			<0.003	
10/4/2011	<0.003		<0.003			
10/5/2011				<0.003		
10/17/2011		0.0054				
10/19/2011					<0.003	
4/3/2012			0.0053			
4/4/2012	<0.003					
4/11/2012				<0.003		
5/1/2012					<0.003	
5/2/2012		<0.003				
10/2/2012					<0.003	
10/3/2012	<0.003					
10/8/2012		<0.003				
10/9/2012			<0.003	<0.003		
4/3/2013	<0.003					
4/10/2013					<0.003	

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:14 AM View: Bedrock - Interwell PLs
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWA-1 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWA-50R (bg)	GWA-4RZ (bg)
4/11/2013			0.0075			
4/12/2013		0.0058				
4/15/2013				<0.003		
10/9/2013	<0.003					
10/15/2013				<0.003		
10/16/2013		0.01 (o)	<0.003		<0.003	
4/2/2014	<0.003					
4/10/2014			0.0081			
4/11/2014		0.005 (J)				
4/22/2014				<0.003	<0.003	
9/30/2014		0.0068	0.0022 (J)	<0.003		
10/1/2014					<0.003	
10/2/2014	0.0044 (J)					
3/30/2015		0.0074	0.011 (o)	<0.003	<0.003	
4/1/2015	0.0087 (o)					
10/11/2015	0.007 (o)				<0.003	
10/13/2015		0.017 (o)	0.0045 (J)	<0.003		
3/22/2016		0.00567				
3/23/2016			0.00281 (J)	<0.003		
3/28/2016					<0.003	
4/4/2016	0.00252 (J)					
5/19/2016		0.00319	0.00264 (J)			
5/20/2016				<0.003		
5/25/2016					<0.003	
5/26/2016	0.00351					
7/29/2016		0.0025 (J)	0.0069	<0.003		
8/1/2016					<0.003	
8/4/2016	<0.003					
9/22/2016			0.0066			
9/23/2016		0.0051		<0.003		
9/26/2016					<0.003	
9/28/2016	0.0012 (J)					
11/9/2016		0.0097 (J)		<0.003		
11/10/2016			<0.003			
11/11/2016					<0.003	
11/22/2016	0.0042					
1/30/2017		0.0032			<0.003	
1/31/2017			0.0064	<0.003		
2/8/2017	<0.003					
2/22/2017						0.0018 (J)
3/30/2017		0.0028 (J)		<0.003		
4/3/2017			0.0049		<0.003	
4/7/2017						0.0008 (J)
4/10/2017	<0.003					
6/9/2017		<0.003	<0.003			
6/12/2017				<0.003	<0.003	
6/14/2017						<0.003
6/15/2017	<0.003					
7/12/2017						0.0015 (J)
7/20/2017						<0.003
7/28/2017						<0.003
8/9/2017						<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/30/2021 11:14 AM View: Bedrock - Interwell PLS
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-11R	GWA-1 (bg)	GWA-2R (bg)	GWA-2 (bg)	GWA-50R (bg)	GWA-4RZ (bg)
8/24/2017						0.0007 (J)
10/2/2017		0.0014 (J)	0.0045	<0.003	<0.003	
10/3/2017						<0.003
10/4/2017	<0.003					
3/16/2018		0.0014 (J)	0.021 (o)		<0.003	
3/19/2018				<0.003		
3/21/2018						<0.003
3/22/2018	<0.003					
9/14/2018			0.0054	<0.003		
9/17/2018		0.00105 (JD)				
9/18/2018	<0.003				<0.003	<0.003
3/19/2019			0.0019 (J)		<0.003	
3/20/2019		<0.003		<0.003		
3/21/2019						<0.003
3/23/2019	<0.003					
9/12/2019		0.0037		<0.003 (D)	<0.003	0.00052 (J)
9/13/2019			0.0044			
9/17/2019	0.0013 (J)					
3/11/2020		0.00079 (J)	0.002 (J)	<0.003	<0.003	
3/12/2020	0.001 (J)					0.0017 (J)
9/15/2020		0.0061	0.0037	<0.003	0.00048 (J)	
9/17/2020						0.00087 (J)
9/21/2020	0.0053					
3/16/2021		0.0014 (J)	0.005			0.00082 (J)
3/17/2021				<0.003	<0.003	
3/19/2021	0.012					

FIGURE G.

Appendix I Bedrock Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:15 PM

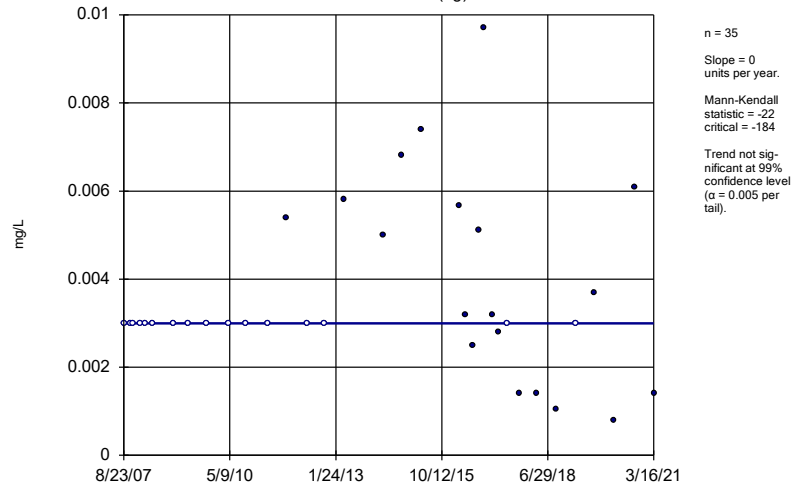
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.0009075	-326	-191	Yes	36	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4RZ (bg)	0.004024	81	58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006742	-177	-131	Yes	28	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-13RZ	0.006455	365	184	Yes	35	0	n/a	n/a	0.01	NP

Appendix I Bedrock Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 3:15 PM

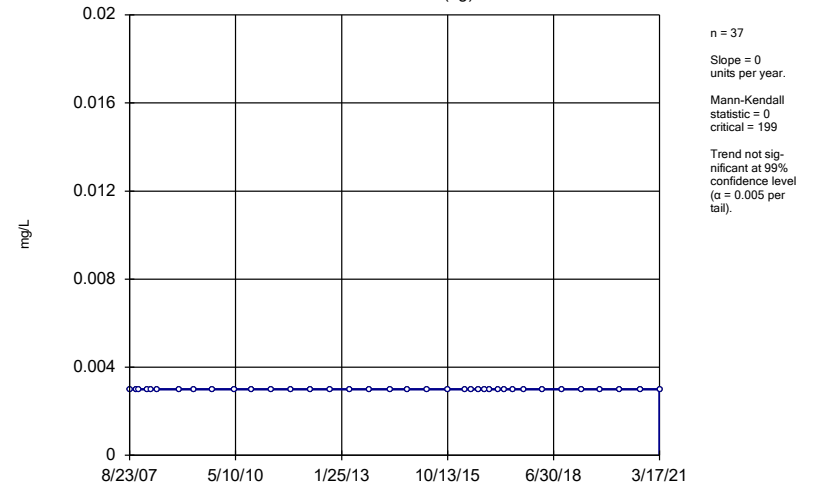
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	GWA-1 (bg)	0	-22	-184	No	35	45.71	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-2R (bg)	0	72	184	No	35	48.57	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-4RZ (bg)	0	-16	-58	No	16	50	n/a	n/a	0.01	NP
Antimony (mg/L)	GWA-50R (bg)	0	-28	-152	No	31	96.77	n/a	n/a	0.01	NP
Antimony (mg/L)	GWC-11R	0	14	184	No	35	74.29	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-1 (bg)	-0.0009075	-326	-191	Yes	36	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2 (bg)	0.0004547	63	184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2R (bg)	0.0002135	63	184	No	35	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4RZ (bg)	0.004024	81	58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-50R (bg)	-0.0006742	-177	-131	Yes	28	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-13RZ	0.006455	365	184	Yes	35	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
GWA-1 (bg)



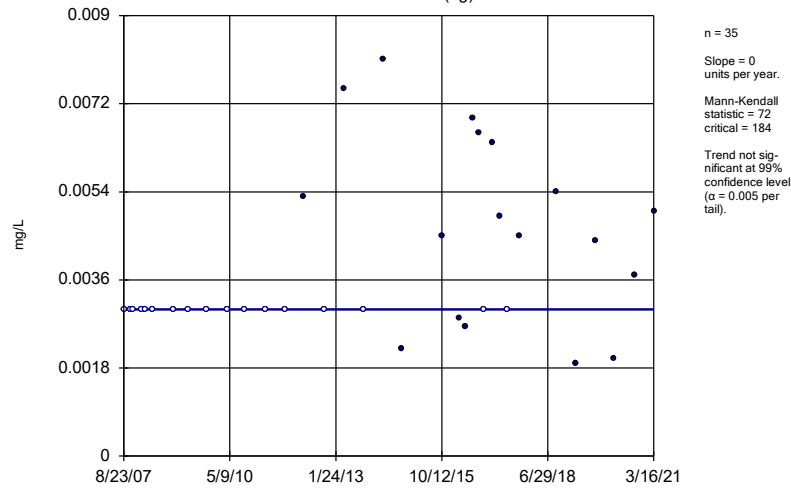
Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2 (bg)



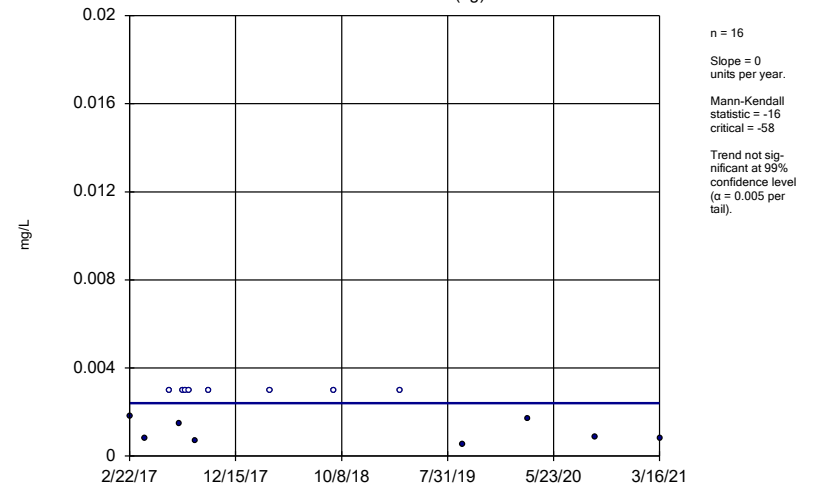
Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2R (bg)



Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

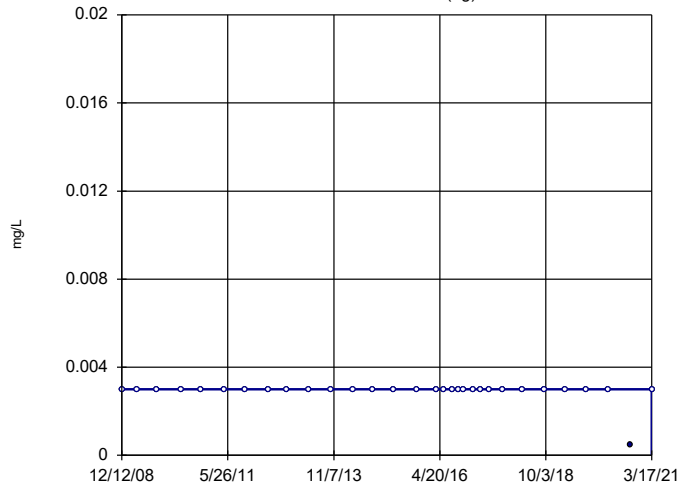
Sen's Slope Estimator
GWA-4RZ (bg)



Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

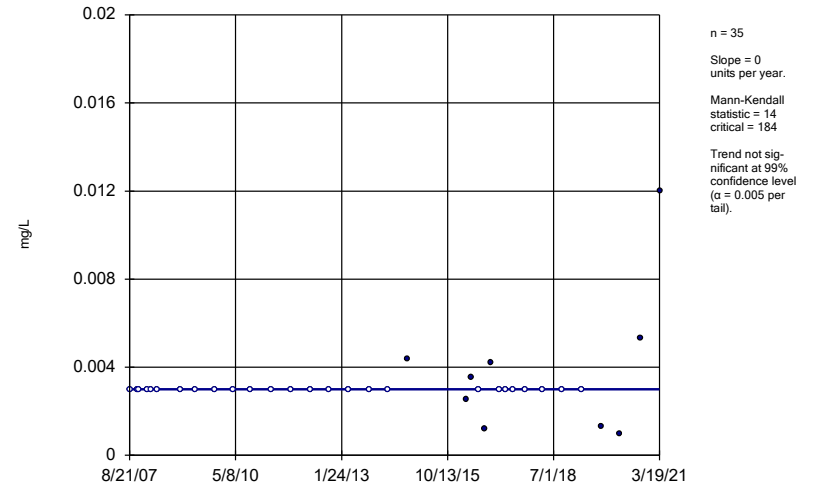
GWA-50R (bg)



Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

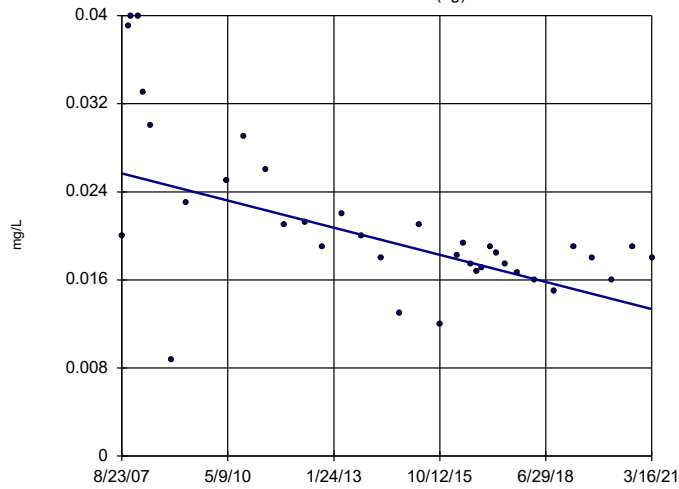
GWC-11R



Constituent: Antimony Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

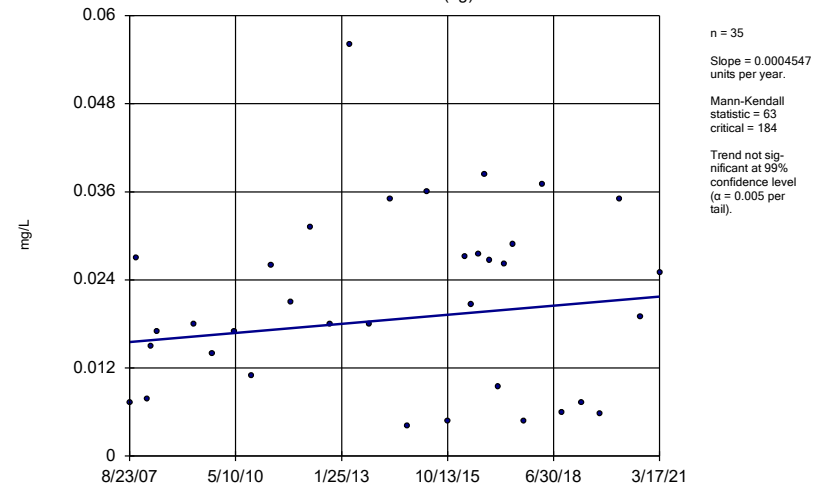
GWA-1 (bg)



Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

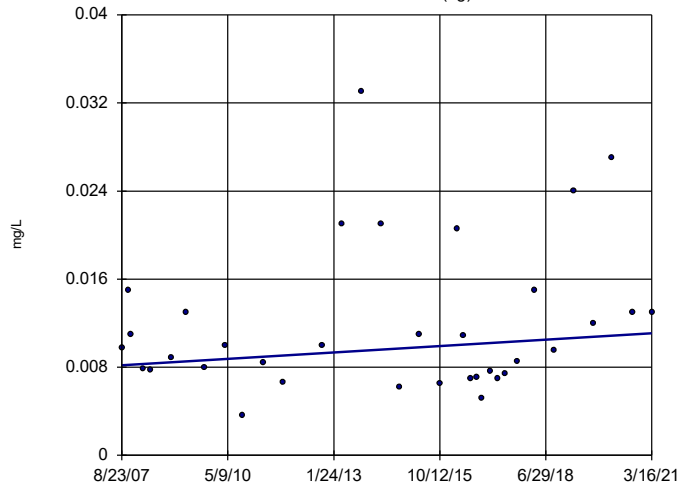
GWA-2 (bg)



Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-2R (bg)

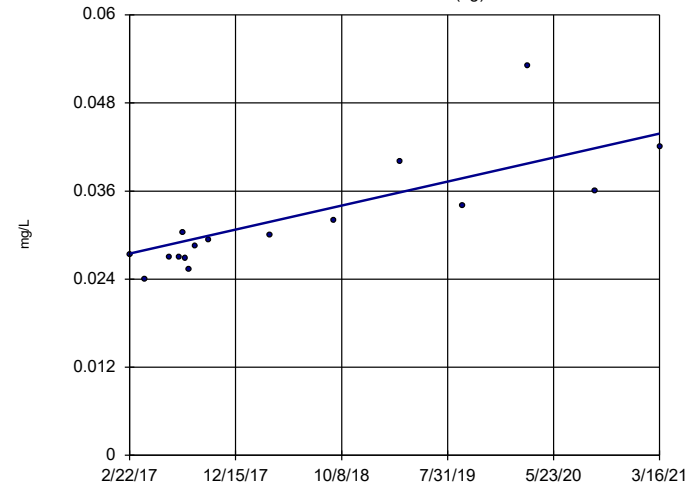


n = 35
 Slope = 0.0002135
 units per year.
 Mann-Kendall
 statistic = 63
 critical = 184
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-4RZ (bg)

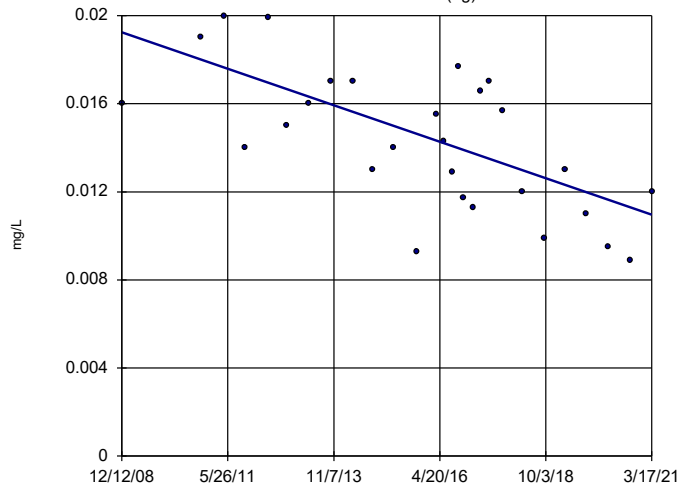


n = 16
 Slope = 0.004024
 units per year.
 Mann-Kendall
 statistic = 81
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWA-50R (bg)

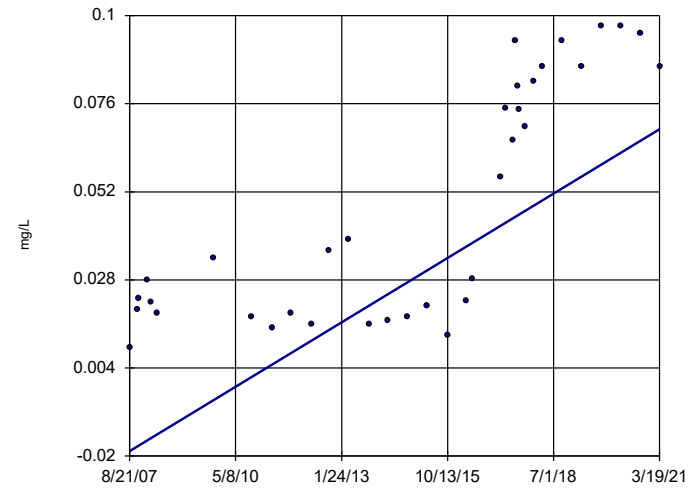


n = 28
 Slope = -0.0006742
 units per year.
 Mann-Kendall
 statistic = -177
 critical = -131
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

GWC-13RZ



n = 35
 Slope = 0.006455
 units per year.
 Mann-Kendall
 statistic = 365
 critical = 184
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 4/30/2021 3:14 PM View: Bedrock - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

FIGURE H.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-3A	2.13	n/a	3/29/2021	19	Yes	13	1.301	0.3004	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-3A	1.359	n/a	3/29/2021	5.4	Yes	13	0.7044	0.2369	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-3A	58.82	n/a	3/29/2021	76	Yes	13	26.41	11.74	38.46	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-1	35.77	n/a	3/16/2021	34.6	No	13	30.12	2.045	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2	76.67	n/a	3/17/2021	40.4	No	13	21.87	19.84	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-2R	68.55	n/a	3/16/2021	26.7	No	13	4.874	1.233	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-3A	2.13	n/a	3/29/2021	19	Yes	13	1.301	0.3004	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-4RZ	57.67	n/a	3/16/2021	53.7	No	13	48.45	3.34	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50	4.676	n/a	3/17/2021	1.4	No	13	2.38	0.8311	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWA-50R	14.16	n/a	3/17/2021	5.4	No	13	5.032	3.306	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	46.26	n/a	3/18/2021	27	No	13	976.2	421.5	0	None	x^2	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-10R	48.64	n/a	3/18/2021	43.8	No	13	40.21	3.054	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11	30.68	n/a	3/19/2021	19.7	No	13	17.71	4.696	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-11R	36.51	n/a	3/19/2021	31.3	No	13	25.31	4.056	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-12	9.786	n/a	3/19/2021	7.8	No	13	8.042	0.6313	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13	77.34	n/a	3/18/2021	30.8	No	13	48.64	10.39	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-13RZ	66.28	n/a	3/19/2021	43	No	13	43.21	8.352	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-14Z	46.16	n/a	3/18/2021	13	No	13	23.01	8.383	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-15R	62.5	n/a	3/18/2021	42.1	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Calcium (mg/L)	GWC-15Z	30.61	n/a	3/18/2021	27.4	No	13	12616	5821	0	None	x^3	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-5	8.151	n/a	3/17/2021	3	No	13	1.854	0.3624	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	16.11	n/a	3/17/2021	14.1	No	12	13.73	0.8433	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-6RZ	15.76	n/a	3/17/2021	9.5	No	12	11.35	1.561	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-7Z	27.62	n/a	3/17/2021	23.9	No	13	23.25	1.58	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8RR	25.71	n/a	3/17/2021	22.4	No	13	22.17	1.281	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-8Z	27.75	n/a	3/18/2021	9.6	No	12	21.09	2.357	0	None	No	0.0004426	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	33.72	n/a	3/18/2021	1.9	No	13	10.16	8.529	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-1	2.705	n/a	3/16/2021	0.99J	No	13	1.707	0.3615	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2	171.3	n/a	3/17/2021	90.7	No	13	45.47	45.57	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-2R	103.2	n/a	3/16/2021	3.3	No	13	1.076	1.289	0	None	ln(x)	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-3A	1.359	n/a	3/29/2021	5.4	Yes	13	0.7044	0.2369	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-4RZ	29.81	n/a	3/16/2021	22.1	No	14	21.19	3.193	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50	1.082	n/a	3/17/2021	0.5ND	No	13	0.692	0.1413	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWA-50R	1.77	n/a	3/17/2021	0.86J	No	13	1.035	0.2659	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10	2.331	n/a	3/18/2021	1.2	No	13	1.414	0.332	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-10R	2.202	n/a	3/18/2021	0.96J	No	13	1.539	0.2398	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11	3.864	n/a	3/19/2021	1.9	No	13	2.667	0.4333	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-11R	4.815	n/a	3/19/2021	1.5	No	13	2.798	0.7303	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-12	0.8022	n/a	3/19/2021	0.5ND	No	13	0.6222	0.09903	23.08	Kaplan-Meier	sqrt(x)	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13	205.7	n/a	3/18/2021	19.3	No	13	84.47	43.88	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-13RZ	108.2	n/a	3/19/2021	74.2	No	13	53.11	19.95	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-14Z	8.012	n/a	3/18/2021	7.8	No	12	3.192	1.707	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15R	14.72	n/a	3/18/2021	10.4	No	13	9.142	2.02	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-15Z	14.01	n/a	3/18/2021	0.76J	No	13	4.438	3.464	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-5	2.23	n/a	3/17/2021	1.1	No	13	1.506	0.2621	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6	4.05	n/a	3/17/2021	2.2	No	13	2.394	0.5998	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-6RZ	3.575	n/a	3/17/2021	1.8	No	13	2.112	0.5298	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-7Z	2.373	n/a	3/17/2021	1.3	No	13	0.8731	0.5429	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8RR	2.043	n/a	3/17/2021	0.72J	No	13	1.043	0.3621	7.692	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-8Z	4.386	n/a	3/18/2021	1.1	No	13	2.324	0.7467	0	None	No	0.0004426	Param Intra 1 of 2
Sulfate, as SO4 (mg/L)	GWC-9	4.885	n/a	3/18/2021	2.1	No	13	2.372	0.9101	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-1	192.9	n/a	3/16/2021	155	No	13	151.7	14.9	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2	370	n/a	3/17/2021	211	No	13	122.7	89.51	7.692	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-2R	250.2	n/a	3/16/2021	102	No	13	120	47.12	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-3A	58.82	n/a	3/29/2021	76	Yes	13	26.41	11.74	38.46	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-4RZ	444.4	n/a	3/16/2021	196	No	13	262.5	65.86	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50	53.58	n/a	3/17/2021	5ND	No	13	21.19	11.73	30.77	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-50R	107.3	n/a	3/17/2021	31	No	13	37	25.45	23.08	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-10	203.4	n/a	3/18/2021	74	No	13	133.3	25.39	0	None	No	0.0004426	Param Intra 1 of 2

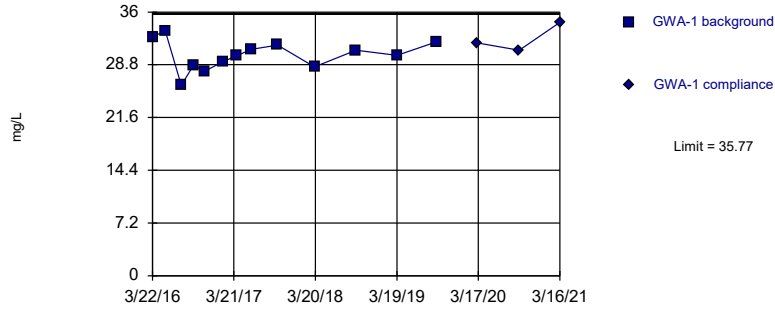
Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWC-10R	224.9	n/a	3/18/2021	62	No	13	161	23.15	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11	157.3	n/a	3/19/2021	79	No	13	95.08	22.54	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-11R	178.8	n/a	3/19/2021	135	No	13	128	18.4	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-12	114	n/a	3/19/2021	53	No	13	4.084	0.2771	0	None	x^(1/3)	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13	424.3	n/a	3/18/2021	82	No	13	239.6	66.87	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-13RZ	380.1	n/a	3/19/2021	250	No	13	67659	27810	0	None	x^2	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-14Z	287.4	n/a	3/18/2021	57	No	13	123.6	59.29	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15R	247.9	n/a	3/18/2021	153	No	13	166.2	29.56	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-15Z	233.3	n/a	3/18/2021	54	No	13	125.5	39.04	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-5	123.3	n/a	3/17/2021	15	No	13	44.18	28.65	15.38	Kaplan-Meier	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6	169.5	n/a	3/17/2021	47	No	13	9.238	1.368	0	None	sqrt(x)	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-6RZ	163.6	n/a	3/17/2021	43	No	13	82	29.54	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-7Z	174.7	n/a	3/17/2021	112	No	13	125.7	17.74	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8RR	132.3	n/a	3/17/2021	113	No	13	108.6	8.559	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-8Z	178.6	n/a	3/18/2021	48	No	13	121.7	20.62	0	None	No	0.0004426	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-9	187.9	n/a	3/18/2021	5ND	No	13	64.54	44.65	0	None	No	0.0004426	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

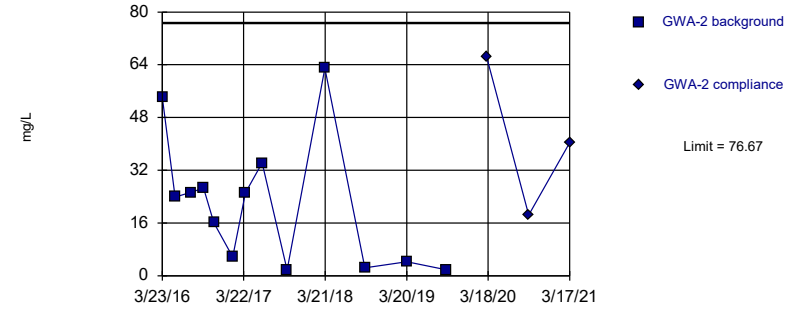


Background Data Summary: Mean=30.12, Std. Dev.=2.045, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9874, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

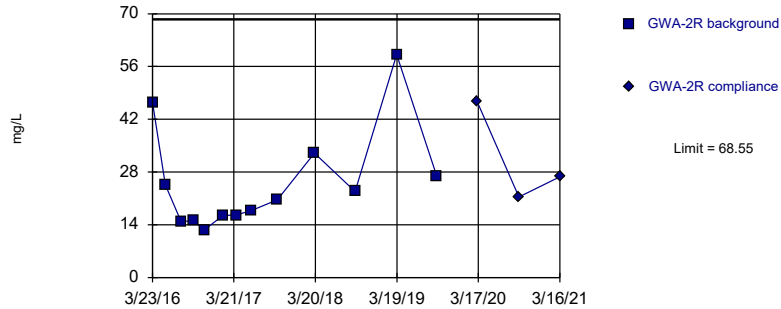


Background Data Summary: Mean=21.87, Std. Dev.=19.84, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8769, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

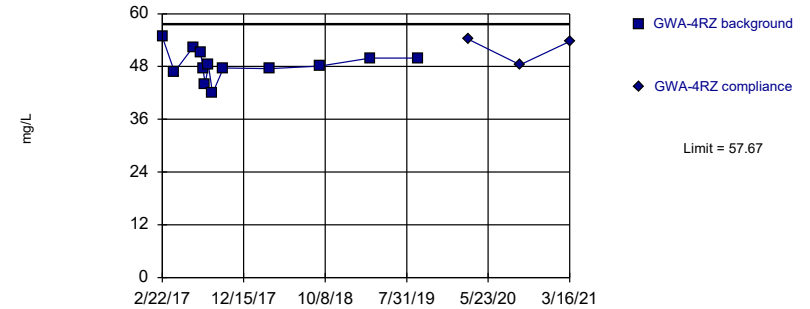


Background Data Summary (based on square root transformation): Mean=4.874, Std. Dev.=1.233, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

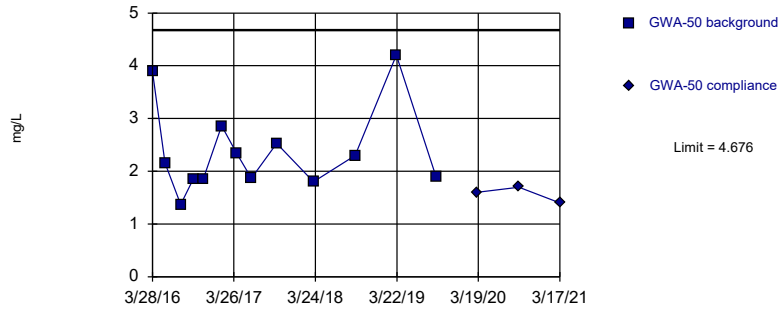


Background Data Summary: Mean=48.45, Std. Dev.=3.34, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9703, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

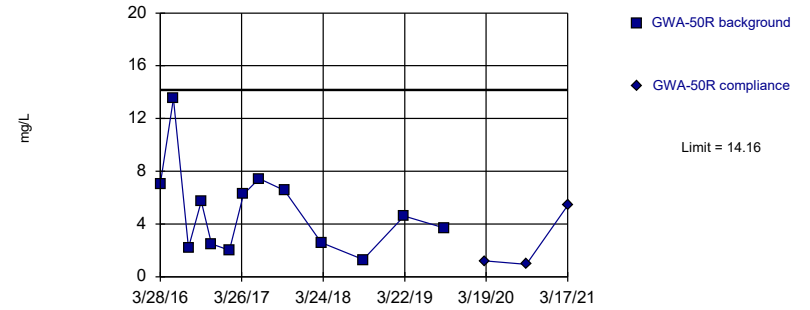


Background Data Summary: Mean=2.38, Std. Dev.=0.8311, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.841, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

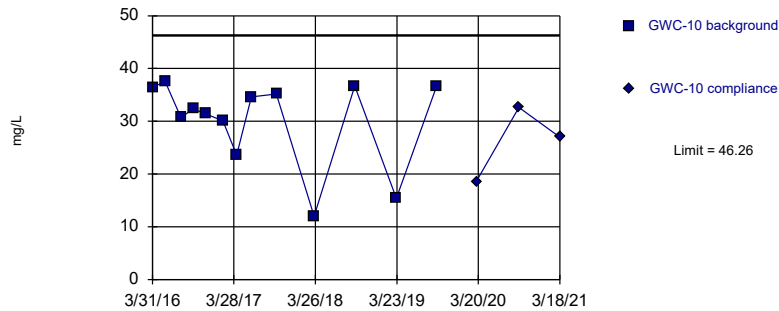


Background Data Summary: Mean=5.032, Std. Dev.=3.306, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8749, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

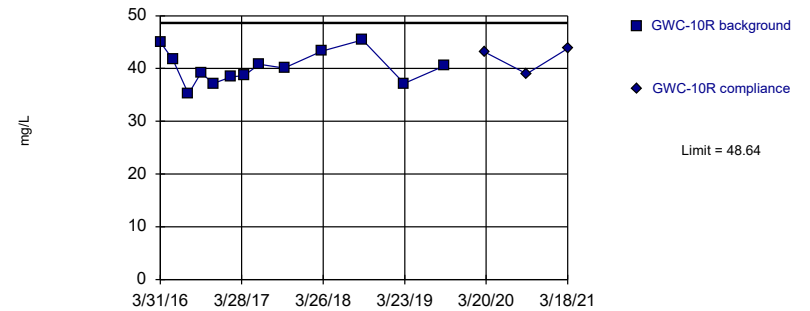


Background Data Summary (based on square transformation): Mean=976.2, Std. Dev.=421.5, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

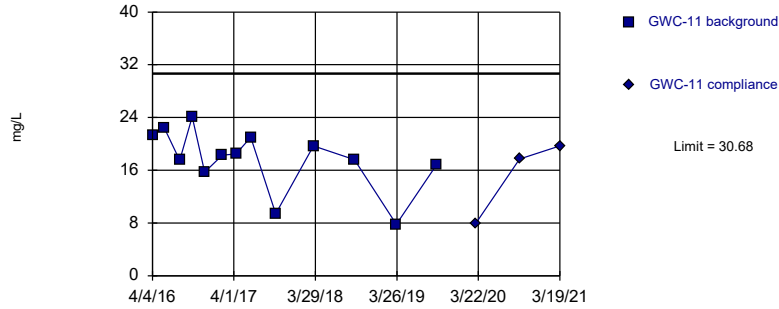


Background Data Summary: Mean=40.21, Std. Dev.=3.054, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9658, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

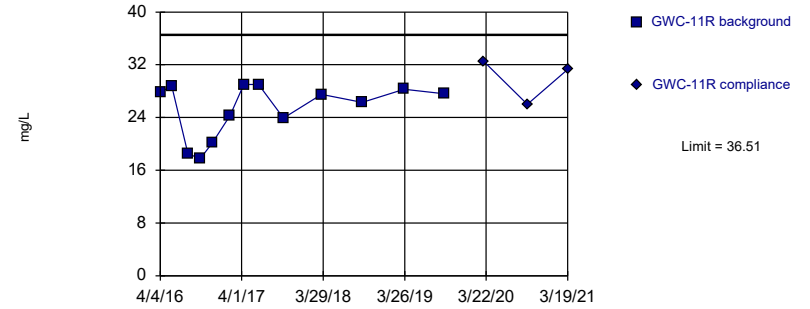


Background Data Summary: Mean=17.71, Std. Dev.=4.696, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

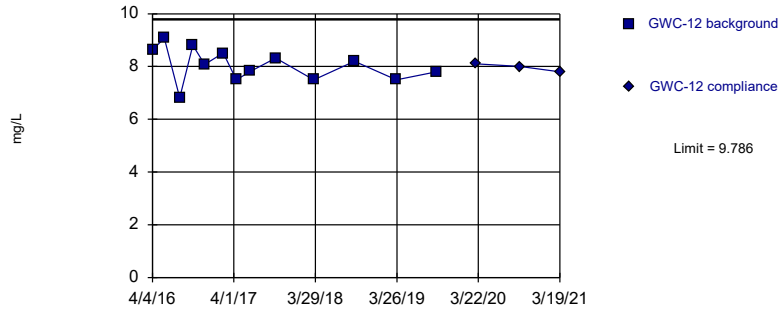


Background Data Summary: Mean=25.31, Std. Dev.=4.056, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8273, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

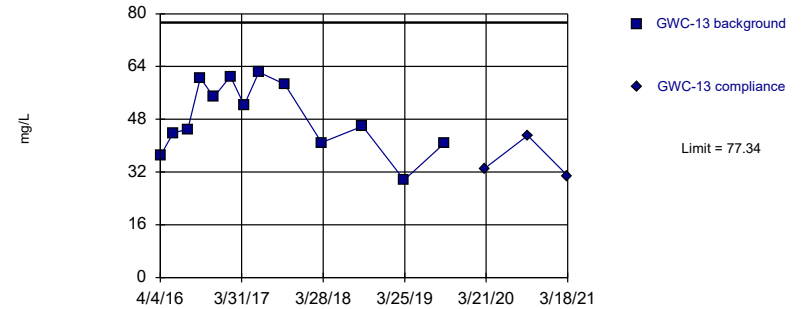


Background Data Summary: Mean=8.042, Std. Dev.=0.6313, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

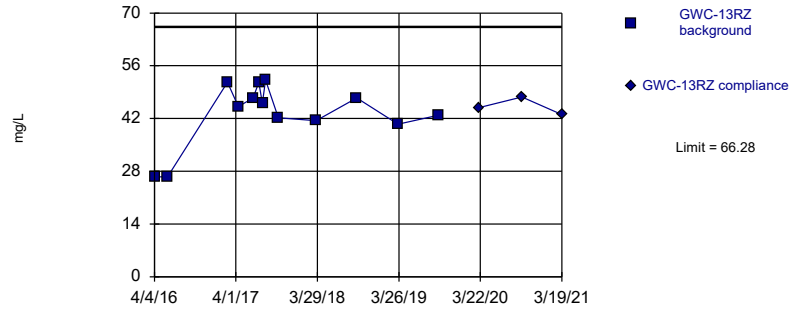


Background Data Summary: Mean=48.64, Std. Dev.=10.39, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

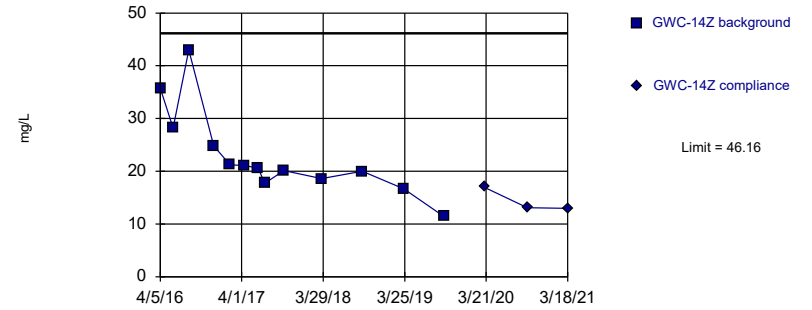


Background Data Summary: Mean=43.21, Std. Dev.=8.352, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8424, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

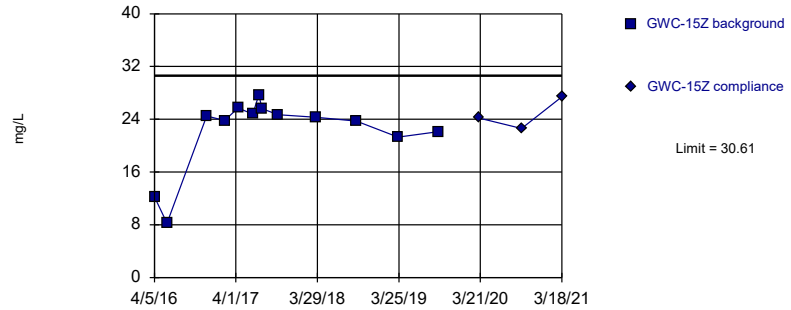


Background Data Summary: Mean=23.01, Std. Dev.=8.383, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8863, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

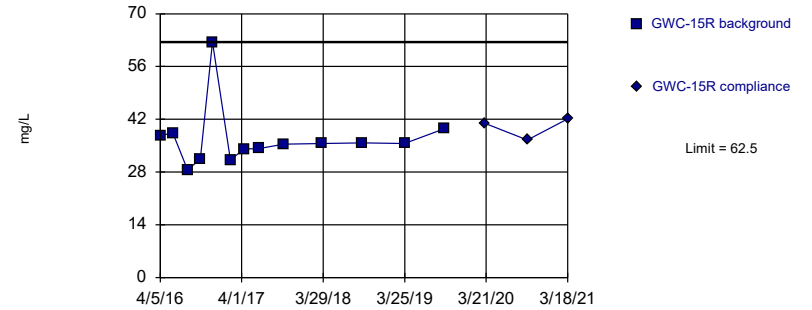


Background Data Summary (based on cube transformation): Mean=12616, Std. Dev.=5821, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8755, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

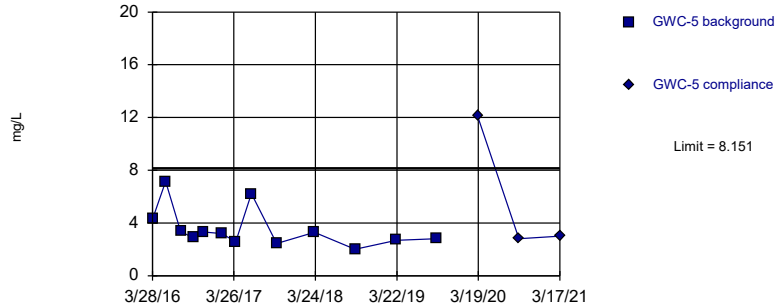


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

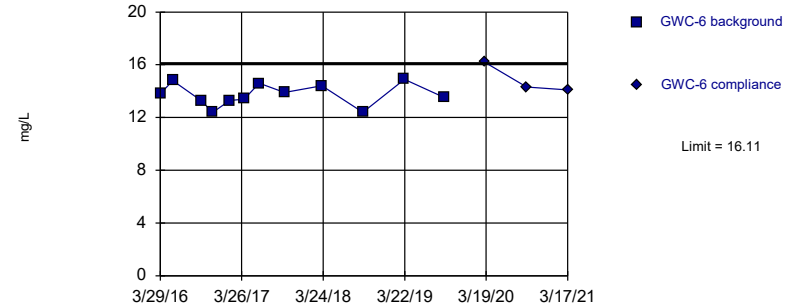


Background Data Summary (based on square root transformation): Mean=1.854, Std. Dev.=0.3624, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8414, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

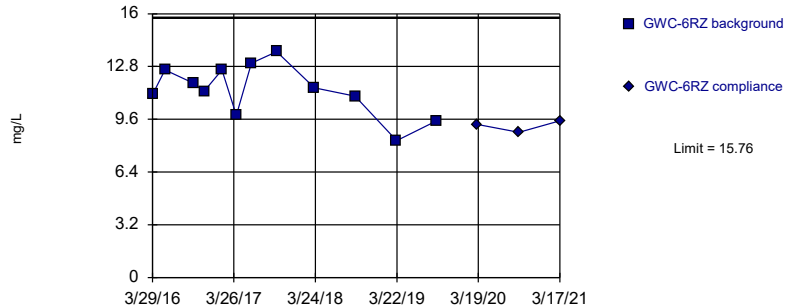


Background Data Summary: Mean=13.73, Std. Dev.=0.8433, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.933, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

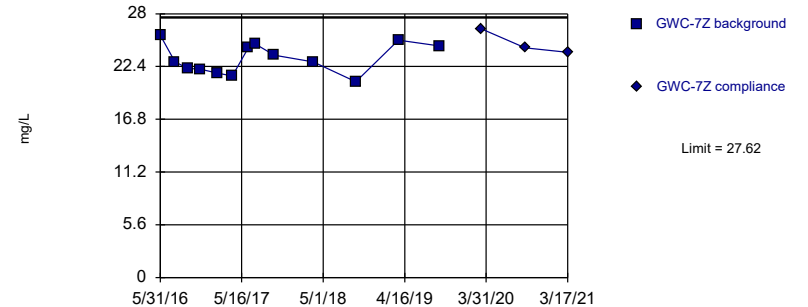


Background Data Summary: Mean=11.35, Std. Dev.=1.561, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

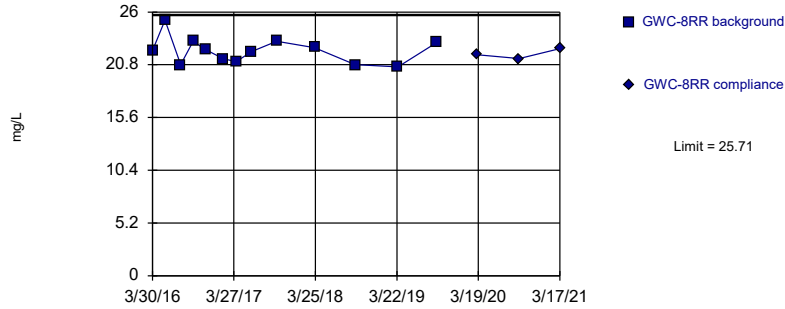


Background Data Summary: Mean=23.25, Std. Dev.=1.58, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

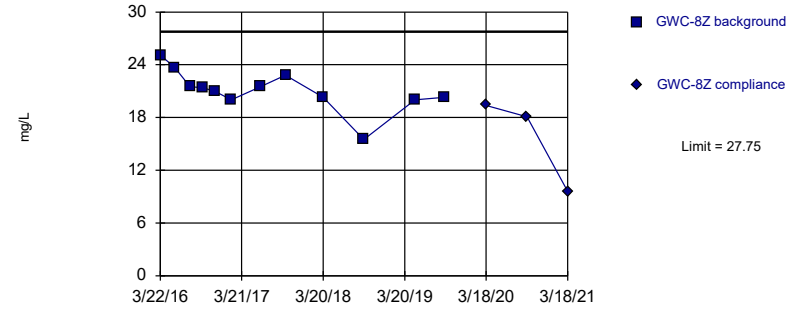


Background Data Summary: Mean=22.17, Std. Dev.=1.281, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

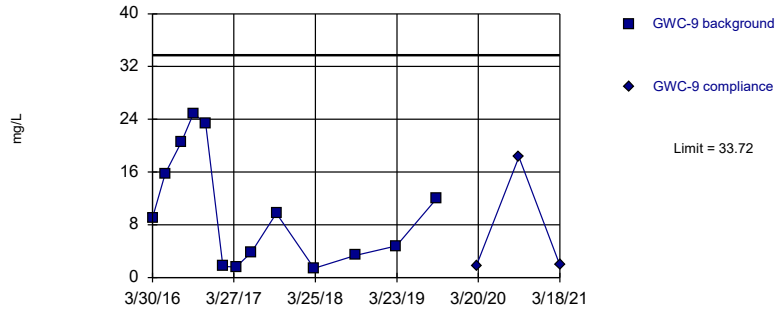


Background Data Summary: Mean=21.09, Std. Dev.=2.357, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9095, critical = 0.805. Kappa = 2.824 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

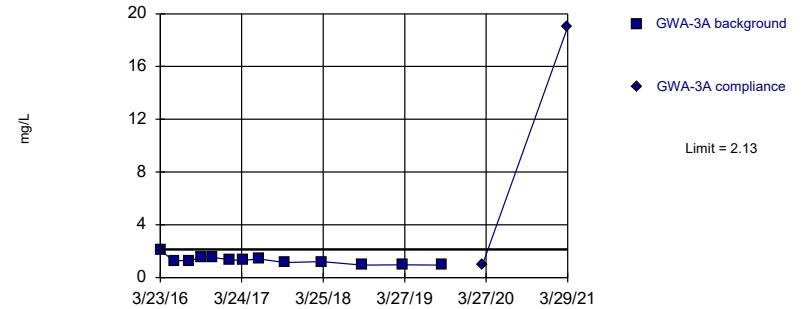


Background Data Summary: Mean=10.16, Std. Dev.=8.529, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.877, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

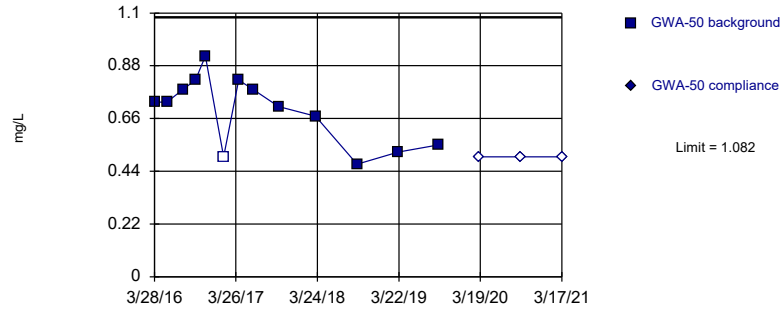


Background Data Summary: Mean=1.301, Std. Dev.=0.3004, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8984, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

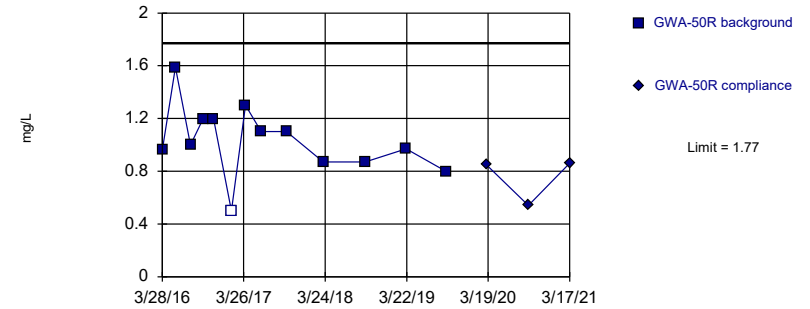


Background Data Summary: Mean=0.692, Std. Dev.=0.1413, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.931, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

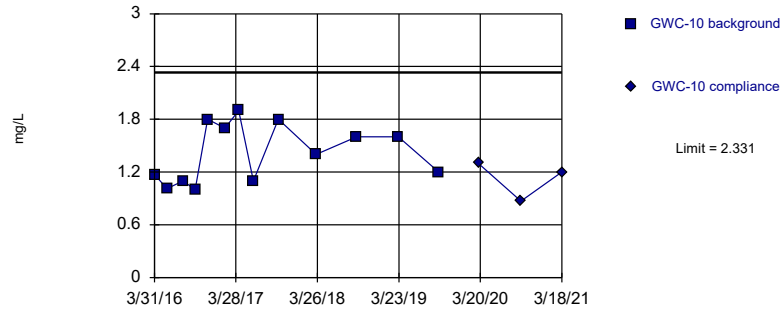


Background Data Summary: Mean=1.035, Std. Dev.=0.2659, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9736, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

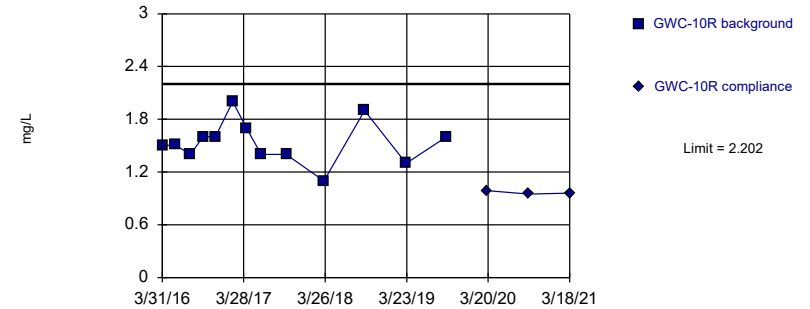


Background Data Summary: Mean=1.414, Std. Dev.=0.332, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8902, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

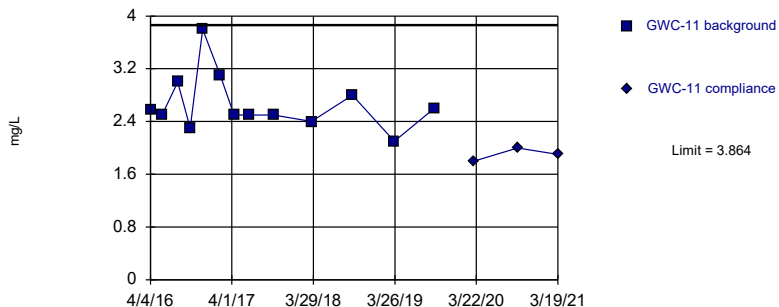


Background Data Summary: Mean=1.539, Std. Dev.=0.2398, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9641, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

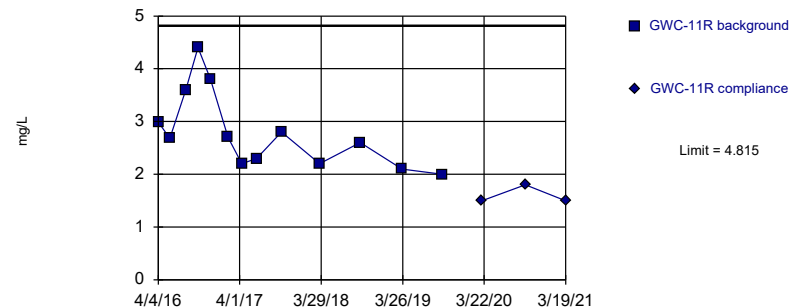


Background Data Summary: Mean=2.667, Std. Dev.=0.4333, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8549, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric



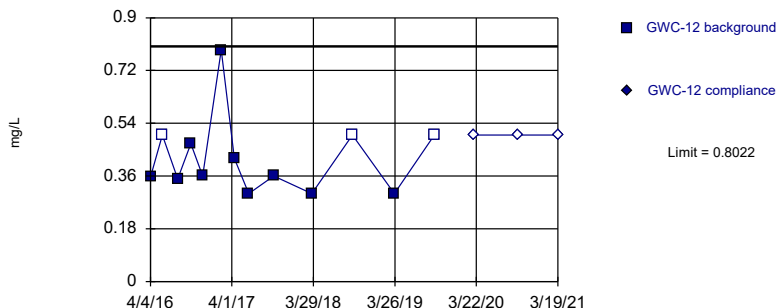
Background Data Summary: Mean=2.798, Std. Dev.=0.7303, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8882, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 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

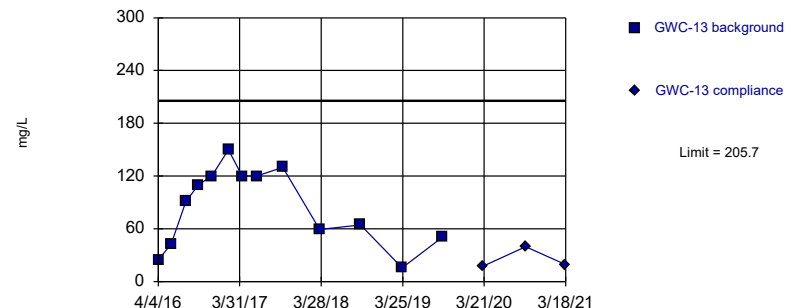


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.6222, Std. Dev.=0.09903, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8508, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit Intrawell Parametric

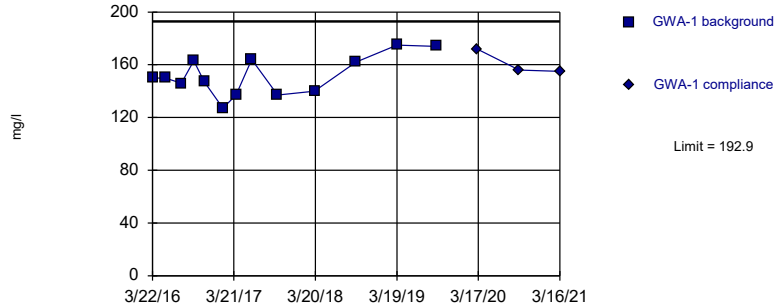


Background Data Summary: Mean=84.47, Std. Dev.=43.88, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9315, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate, as SO4 Analysis Run 4/30/2021 11:37 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

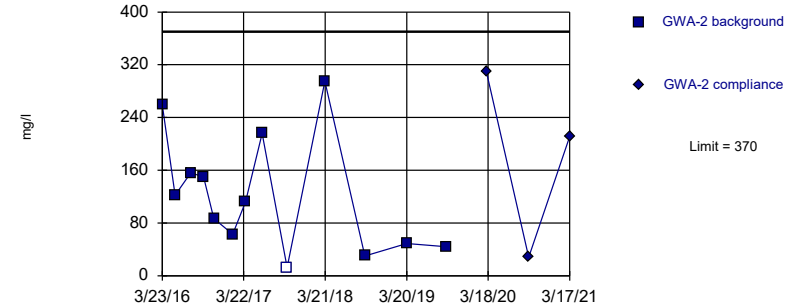


Background Data Summary: Mean=151.7, Std. Dev.=14.9, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

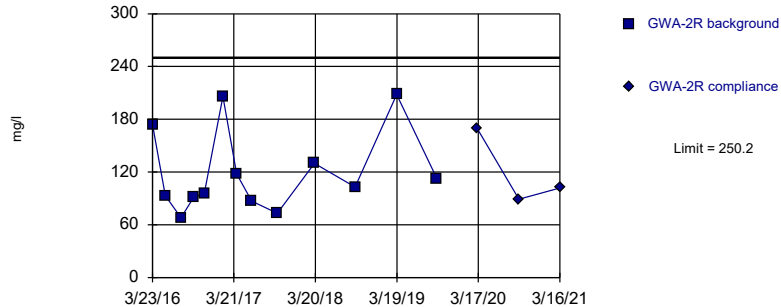


Background Data Summary: Mean=122.7, Std. Dev.=89.51, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9282, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

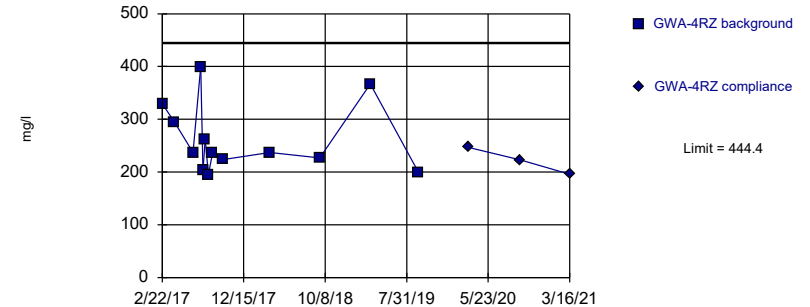


Background Data Summary: Mean=120, Std. Dev.=47.12, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8507, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

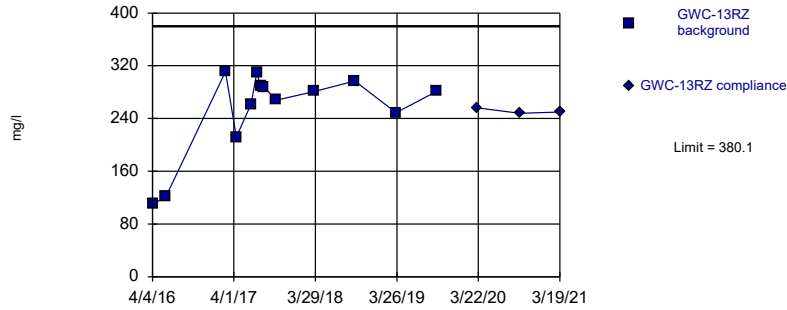


Background Data Summary: Mean=262.5, Std. Dev.=65.86, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8618, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

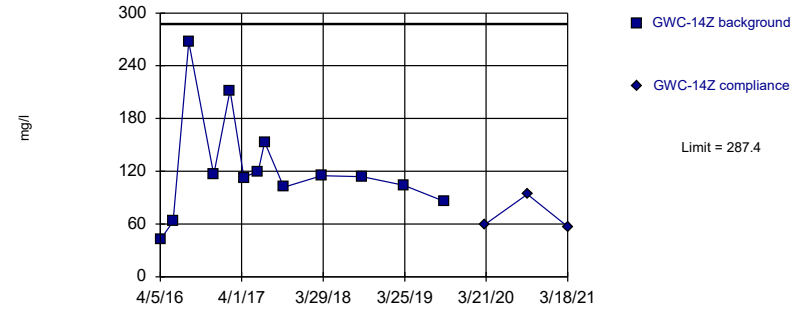


Background Data Summary (based on square transformation): Mean=67659, Std. Dev.=27810, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8439, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

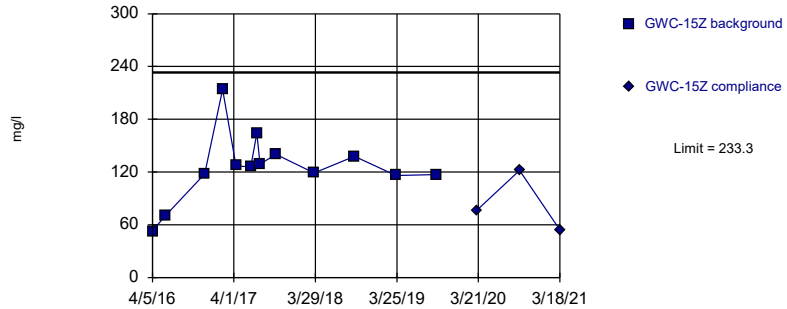


Background Data Summary: Mean=123.6, Std. Dev.=59.29, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8627, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

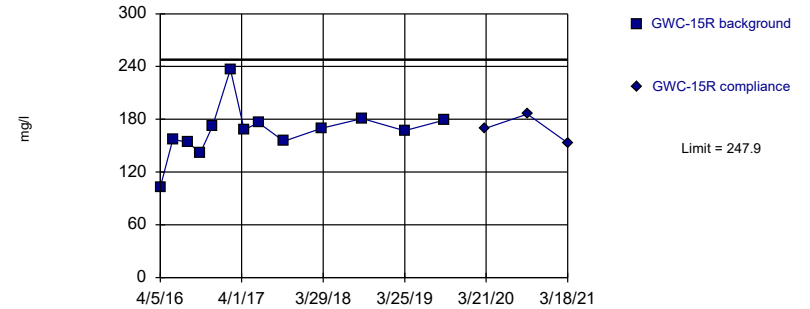


Background Data Summary: Mean=125.5, Std. Dev.=39.04, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Intrawell Parametric

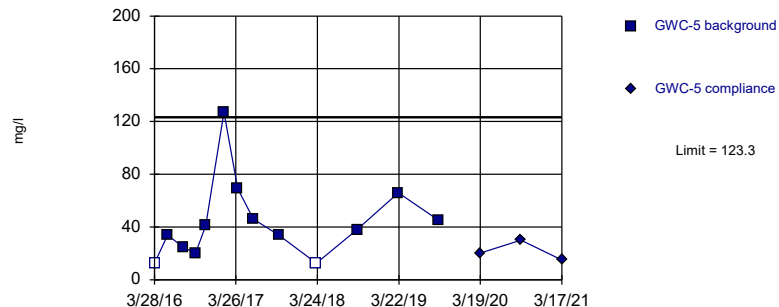


Background Data Summary: Mean=166.2, Std. Dev.=29.56, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8829, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

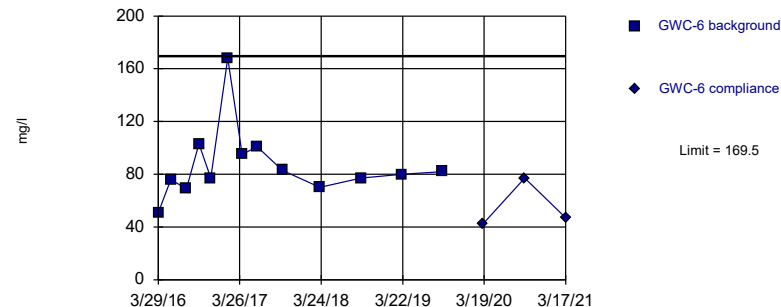


Background Data Summary (after Kaplan-Meier Adjustment): Mean=44.18, Std. Dev.=28.65, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8322, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

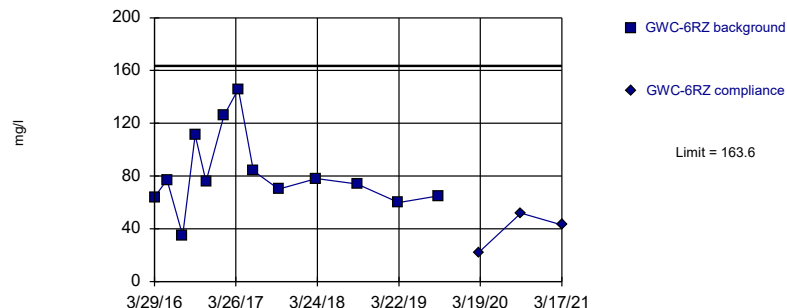


Background Data Summary (based on square root transformation): Mean=9.238, Std. Dev.=1.368, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.848, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

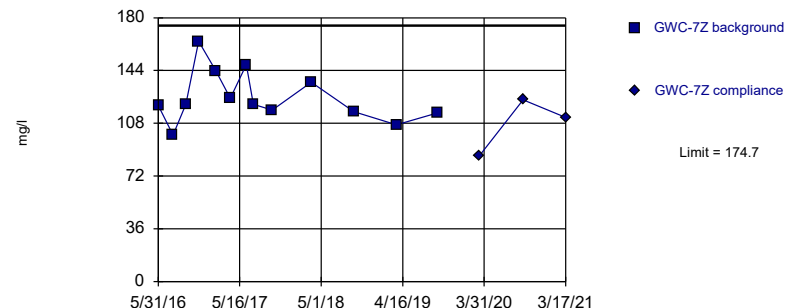


Background Data Summary: Mean=82, Std. Dev.=29.54, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8998, critical = 0.814. Kappa = 2.762 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 4/30/2021 11:38 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=125.7, 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 4/30/2021 11:38 AM View: App III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		30.8
3/16/2021		34.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		18.4
3/17/2021		40.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		21.4
3/16/2021		26.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		48.4
3/16/2021		53.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		1.7
3/17/2021		1.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		0.94 (J)
3/17/2021		5.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		32.6
3/18/2021		27

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		39
3/18/2021		43.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		17.7
3/19/2021		19.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		26
3/19/2021		31.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		8
3/19/2021		7.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/22/2020		43.1
3/18/2021		30.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		47.7
3/19/2021		43

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		13.1
3/18/2021		13

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		22.6
3/18/2021		27.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		36.5
3/18/2021		42.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		2.8
3/17/2021		3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		14.3
3/17/2021		14.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		8.8
3/17/2021		9.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		24.4
3/17/2021		23.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		21.4
3/17/2021		22.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		18.1
3/18/2021		9.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		18.3
3/18/2021		1.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		19

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/30/2021 11:44 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)
9/15/2020		0.96 (J)
3/16/2021		0.99 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		35.3
3/17/2021		90.7

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/15/2020		1
3/16/2021		3.3

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		20.3
3/16/2021		22.1

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		<1
3/17/2021		<1

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
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)
9/15/2020		0.54 (J)
3/17/2021		0.86 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		0.87 (J)
3/18/2021		1.2

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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)
9/17/2020		0.95 (J)
3/18/2021		0.96 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		2
3/19/2021		1.9

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		1.8
3/19/2021		1.5

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		<1
3/19/2021		<1

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/22/2020		39.6
3/18/2021		19.3

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		69.8
3/19/2021		74.2

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		5.5
3/18/2021		7.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		0.9 (J)
3/18/2021		0.76 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/21/2020		9
3/18/2021		10.4

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		1.1
3/17/2021		1.1

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - Intrawell
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
9/16/2020		1.8
3/17/2021		2.2

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		1.3
3/17/2021		1.8

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/16/2020		1.1
3/17/2021		1.3

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		0.6 (J)
3/17/2021		0.72 (J)

Prediction Limit

Constituent: Sulfate, as SO4 (mg/L) Analysis Run 4/30/2021 11:44 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)
9/17/2020		0.74 (J)
3/18/2021		1.1

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/30/2021 11:44 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
9/17/2020		3.5
3/18/2021		2.1

Prediction Limit

Constituent: Sulfate, as SO₄ (mg/L) Analysis Run 4/30/2021 11:44 AM View: App III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		5.4

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/15/2020		156
3/16/2021		155

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell

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
9/15/2020		28
3/17/2021		211

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/15/2020		89
3/16/2021		102

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		223
3/16/2021		196

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-50	GWA-50
3/28/2016	<10	
5/23/2016	32	
8/1/2016	<10	
9/26/2016	45	
11/10/2016	38	
1/30/2017	<10	
4/7/2017	18 (J)	
6/12/2017	15 (J)	
10/2/2017	17 (J)	
3/16/2018	<10	
9/17/2018	38	
3/19/2019	34	
9/13/2019	19	
3/11/2020		17
9/16/2020		20
3/17/2021		<10

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/15/2020		12
3/17/2021		31

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		140
3/18/2021		74

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		125
3/18/2021		62

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/21/2020		93
3/19/2021		79

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/21/2020		145
3/19/2021		135

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/21/2020		62
3/19/2021		53

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
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
9/22/2020		176
3/18/2021		82

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-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
9/22/2020		248
3/19/2021		250

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-14Z	GWC-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
9/21/2020		94
3/18/2021		57

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-15Z	GWC-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
9/21/2020		122
3/18/2021		54

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/21/2020		186
3/18/2021		153

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/16/2020		30
3/17/2021		15

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/16/2020		77
3/17/2021		47

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/16/2020		52
3/17/2021		43

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/16/2020		124
3/17/2021		112

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		111
3/17/2021		113

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		98
3/18/2021		48

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 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
9/17/2020		94
3/18/2021		<10

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/30/2021 11:44 AM View: App III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-3A	GWA-3A
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
3/29/2021		76

FIGURE I.

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWC-13RZ	3.7	n/a	3/19/2021	7.4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14Z	3.7	n/a	3/18/2021	4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	8.04	5.07	3/17/2021	8.08	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	8.04	5.07	3/18/2021	4.78	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-10	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-10R	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-11R	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.04	n/a	3/19/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.04	n/a	3/18/2021	0.0091J	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-13RZ	0.04	n/a	3/19/2021	0.014J	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-14Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15R	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-15Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-6RZ	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-7Z	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8RR	0.04	n/a	3/17/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-8Z	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-9	0.04	n/a	3/18/2021	0.04ND	No	111	n/a	n/a	69.37	n/a	n/a	0.0001598	NP Inter (NDs) 1 of 2
Chloride (mg/L)	GWC-10	3.7	n/a	3/18/2021	2.1	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-10R	3.7	n/a	3/18/2021	2.5	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	3.7	n/a	3/19/2021	1.1	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11R	3.7	n/a	3/19/2021	1.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	3.7	n/a	3/19/2021	0.79J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	3.7	n/a	3/18/2021	3.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13RZ	3.7	n/a	3/19/2021	7.4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14Z	3.7	n/a	3/18/2021	4	Yes	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15R	3.7	n/a	3/18/2021	1.7	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15Z	3.7	n/a	3/18/2021	0.67J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	3.7	n/a	3/17/2021	0.69J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	3.7	n/a	3/17/2021	1.2	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6RZ	3.7	n/a	3/17/2021	1.4	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-7Z	3.7	n/a	3/17/2021	0.79J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8RR	3.7	n/a	3/17/2021	0.78J	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-8Z	3.7	n/a	3/18/2021	1.6	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	3.7	n/a	3/18/2021	2.2	No	111	n/a	n/a	5.405	n/a	n/a	0.0001598	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-10	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-10R	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-11R	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-12	0.3	n/a	3/19/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-13RZ	0.3	n/a	3/19/2021	0.12	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-14Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15R	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-15Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6RZ	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-7Z	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8RR	0.3	n/a	3/17/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-8Z	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-9	0.3	n/a	3/18/2021	0.1ND	No	110	n/a	n/a	53.64	n/a	n/a	0.0001626	NP Inter (NDs) 1 of 2
pH (pH units)	GWC-10	8.04	5.07	3/18/2021	6.69	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-10R	8.04	5.07	3/18/2021	7.52	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11	8.04	5.07	3/19/2021	7.05	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-11R	8.04	5.07	3/19/2021	7.64	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-12	8.04	5.07	3/19/2021	6.31	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

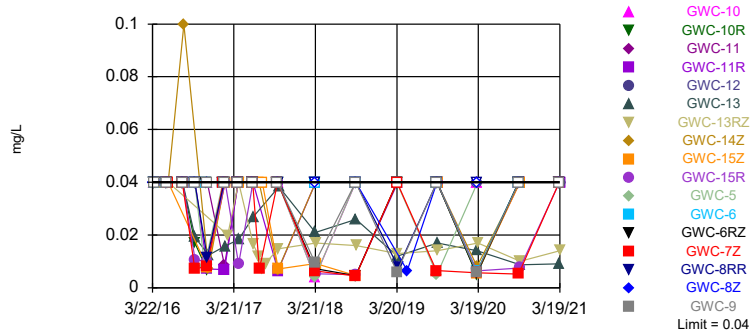
Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-13	8.04	5.07	3/18/2021	7.3	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-13RZ	8.04	5.07	3/19/2021	7.42	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-14Z	8.04	5.07	3/18/2021	6.04	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15R	8.04	5.07	3/18/2021	7.58	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-15Z	8.04	5.07	3/18/2021	7.87	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-5	8.04	5.07	3/17/2021	5.85	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6	8.04	5.07	3/17/2021	7.57	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-6RZ	8.04	5.07	3/17/2021	7.03	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-7Z	8.04	5.07	3/17/2021	7.52	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8RR	8.04	5.07	3/17/2021	8.08	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-8Z	8.04	5.07	3/18/2021	6.45	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2
pH (pH units)	GWC-9	8.04	5.07	3/18/2021	4.78	Yes	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

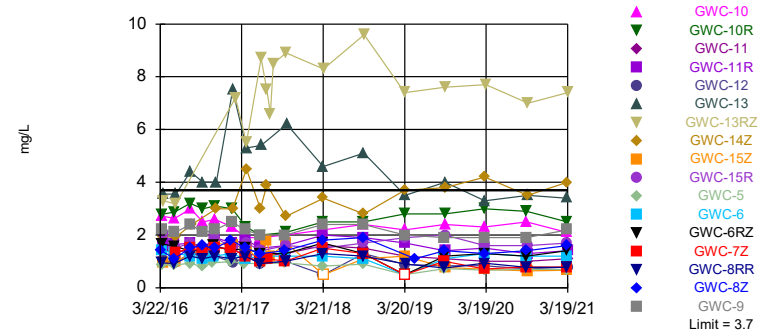


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 111 background values. 69.37% NDs. Annual per-constituent alpha = 0.005418. Individual comparison alpha = 0.0001598 (1 of 2). Comparing 17 points to limit.

Constituent: Boron Analysis Run 4/30/2021 11:35 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limit: GWC-13RZ, GWC-14Z

Prediction Limit
Interwell Non-parametric

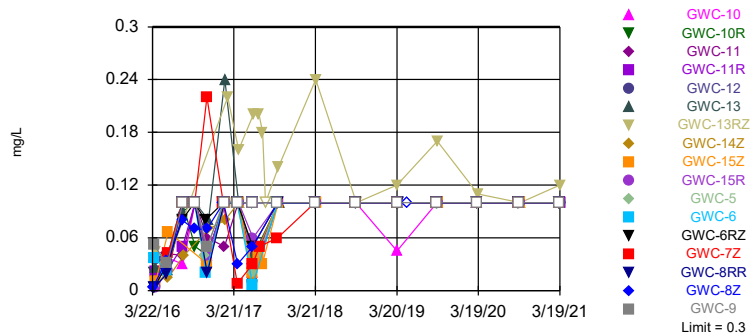


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 111 background values. 5.405% NDs. Annual per-constituent alpha = 0.005418. Individual comparison alpha = 0.0001598 (1 of 2). Comparing 17 points to limit.

Constituent: Chloride Analysis Run 4/30/2021 11:35 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

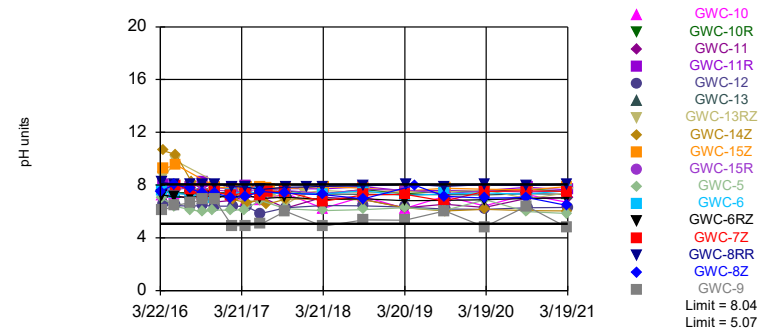


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 110 background values. 53.64% NDs. Annual per-constituent alpha = 0.005515. Individual comparison alpha = 0.0001626 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride Analysis Run 4/30/2021 11:35 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Exceeds Limits: GWC-8RR, GWC-9

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 112 background values. Annual per-constituent alpha = 0.01064. Individual comparison alpha = 0.0003138 (1 of 2). Comparing 17 points to limit.

Constituent: pH Analysis Run 4/30/2021 11:35 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
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						0.0083 (J)		0.0193 (J)	
11/14/2016									<0.04
11/18/2016									
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 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
3/13/2020									
3/16/2020		<0.04				<0.04			
3/17/2020									
9/15/2020	0.01 (J)		0.0053 (J)		0.0074 (J)			<0.04	
9/16/2020						<0.04	<0.04		<0.04
9/17/2020		<0.04							
9/21/2020									
9/22/2020									
3/16/2021	<0.04				0.0061 (J)				
3/17/2021			<0.04			<0.04	<0.04	<0.04	<0.04
3/18/2021		<0.04							
3/19/2021									
3/29/2021				<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-9	GWC-8RR	GWC-10R	GWC-10	GWC-13	GWC-11R	GWC-11	GWC-13RZ
4/3/2017									
4/6/2017	<0.04	<0.04	<0.04						
4/7/2017									
4/10/2017				<0.04	<0.04		<0.04	<0.04	
4/11/2017									<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				
6/15/2017							<0.04	<0.04	
6/16/2017						0.0269 (J)			0.0163 (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		0.0065 (J)	<0.04	
10/5/2017									
10/6/2017									0.0148 (J)
10/9/2017						0.0383 (J)			
3/16/2018									
3/19/2018	<0.04								
3/20/2018		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	<0.04								
9/18/2018		<0.04 (D)	<0.04	<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	<0.04 (D)						
9/17/2019				<0.04	<0.04		<0.04	<0.04	
9/18/2019						0.017 (J)			0.014 (X)
3/11/2020									
3/12/2020	0.0061 (J)	0.0058 (J)	<0.04	0.005 (J)	<0.04		0.0058 (J)	<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-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	<0.04					
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						
5/27/2016	<0.04					
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	<0.04					
8/4/2016				<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						
9/29/2016				0.0106 (J)		
9/30/2016	<0.04					
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					0.008 (J)	
11/22/2016	<0.04					
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						
2/9/2017		<0.04				
2/10/2017			<0.04	<0.04		
2/13/2017	<0.04					
2/22/2017						0.022 (J)
3/30/2017						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					<0.04	
4/7/2017						0.0082 (J)
4/10/2017						
4/11/2017	<0.04	<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	<0.04				0.008 (J)
6/15/2017			<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	<0.04					
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		<0.04	0.0046 (J)	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 (D)	<0.04	<0.04	<0.04		
9/18/2019						
3/11/2020						
3/12/2020	<0.04				0.0057 (J)	0.014 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/13/2020		0.0081 (J)	0.0054 (J)	0.0064 (J)		
3/16/2020						
3/17/2020						
9/15/2020						
9/16/2020					0.0052 (J)	
9/17/2020						0.015 (J)
9/21/2020	<0.04	<0.04	<0.04	0.0075 (J)		
9/22/2020						
3/16/2021						0.0092 (J)
3/17/2021					<0.04	
3/18/2021		<0.04	<0.04	<0.04		
3/19/2021	<0.04					
3/29/2021						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
3/22/2016	1.5101	1.4231							
3/23/2016			2.4904	1.6092	0.9079				
3/28/2016						0.8659	1.14	0.9204	
3/29/2016									1.6645
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									1.58
5/25/2016		1.11				0.8639		1.04	
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	1.7		2	1.5	1.1				
8/1/2016						0.93	1.2	0.85	1.4
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					1.1	0.87	1.4
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						0.95		0.99	
11/14/2016									1.6
11/18/2016									
11/21/2016		1.5							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	1.5						1.2	0.95	
1/31/2017			1.3	1.6	1.2	0.99			
2/1/2017									1.4
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		1.6	1.4					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
3/13/2020									
3/16/2020		1.3				0.67 (J)			
3/17/2020									
9/15/2020	1.3		1.2		0.75 (J)			0.7 (J)	
9/16/2020						0.7 (J)	0.97 (J)		1.2
9/17/2020		1.4							
9/21/2020									
9/22/2020									
3/16/2021	1.3				0.73 (J)				
3/17/2021			1.4			0.69 (J)	1 (J)	0.81 (J)	1.4
3/18/2021		1.6							
3/19/2021									
3/29/2021				1.5					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-9	GWC-8RR	GWC-10R	GWC-10	GWC-13	GWC-11R	GWC-11	GWC-13RZ
4/3/2017									
4/6/2017	1.1	2.2	1.2						
4/7/2017									
4/10/2017				2.3	1.9		1.8	1.3	
4/11/2017									5.5
4/12/2017						5.3			
6/9/2017									
6/12/2017									
6/13/2017	1.2	2							
6/14/2017			0.92	2	1.9				
6/15/2017							1.5	1.2	
6/16/2017						5.4			8.7
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	1.2	2							
10/4/2017			1	2.1	2		1.6	1.3	
10/5/2017									
10/6/2017									8.9
10/9/2017						6.2			
3/16/2018									
3/19/2018	1.2								
3/20/2018		2.4			2.2				
3/21/2018			1.3	2.5		4.6		1.6	
3/22/2018							2		
3/23/2018									8.3
9/14/2018									
9/17/2018	1.1								
9/18/2018		2.4 (D)	1.2	2.5	2.4		1.9	1.5	
9/19/2018						5.1			
9/20/2018									9.6
3/19/2019									
3/20/2019									
3/21/2019	<1	2							
3/22/2019				2.8	2.2				7.4
3/23/2019						3.5	1.7	1.2	
3/25/2019									
3/27/2019			0.9						
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	1.1	1.9	0.75 (JD)						
9/17/2019				2.8	2.4		1.4	1.1	
9/18/2019						4			7.6
3/11/2020									
3/12/2020	1.3	1.9	0.93 (J)	3	2.3		1.5	1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-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	1.03					
4/5/2016		1.93	0.9439	2.08		
5/19/2016						
5/20/2016						
5/23/2016						
5/24/2016						
5/25/2016						
5/26/2016						
5/27/2016	0.9684					
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	1.3					
8/4/2016				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						
9/29/2016				1.5		
9/30/2016	1.2					
11/9/2016						
11/10/2016						
11/11/2016						
11/14/2016						
11/18/2016						
11/21/2016					1.5	
11/22/2016	1.2					
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						
2/9/2017		3				
2/10/2017			1.6	1.5		
2/13/2017	0.96					
2/22/2017						3.7
3/30/2017						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017					1.2	
4/7/2017						2.5
4/10/2017						
4/11/2017	1.2	4.5	1.5			
4/12/2017				1.7		
6/9/2017						
6/12/2017						
6/13/2017					0.98	
6/14/2017	0.89	3				2.6
6/15/2017			1	1.4		
6/16/2017						
7/12/2017		3.9	1.8			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					
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	<1	3.4				
3/23/2018			<1	1.5		
9/14/2018						
9/17/2018						
9/18/2018	1.3				1.3	3.1
9/19/2018		2.8	1.1	1.7		
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019					<1	3.6
3/22/2019		3.7	1.2			
3/23/2019	0.88					
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	0.835 (JD)	3.8	0.78 (X)	2		
9/18/2019						
3/11/2020						
3/12/2020	0.84 (J)				0.72 (J)	2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-12	GWC-14Z	GWC-15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
3/13/2020		4.2	0.7 (J)	1.6		
3/16/2020						
3/17/2020						
9/15/2020						
9/16/2020					0.79 (J)	
9/17/2020						2.4
9/21/2020	0.71 (J)	3.5	0.64 (J)	1.6		
9/22/2020						
3/16/2021						2.7
3/17/2021					0.79 (J)	
3/18/2021		4	0.67 (J)	1.7		
3/19/2021	0.79 (J)					
3/29/2021						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
3/22/2016	0.0614 (J)	0.00323 (J)							
3/23/2016			0.0477 (J)	<0.1	0.0826 (J)				
3/28/2016						0.00421 (J)	0.0314 (J)	0.0326 (J)	
3/29/2016									0.00363 (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				<0.1			0.027 (J)		
5/24/2016									0.0286 (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)	<0.1	0.07 (J)				
8/1/2016						<0.1	<0.1	<0.1	0.08 (J)
8/2/2016		0.08 (J)							
8/3/2016									
8/4/2016									
8/5/2016									
8/9/2016									
9/22/2016				<0.1	<0.1				
9/23/2016	0.03 (J)		0.1 (J)						
9/26/2016		0.07 (J)					<0.1	<0.1	<0.1
9/27/2016						<0.1			
9/28/2016									
9/29/2016									
9/30/2016									
11/9/2016	0.1 (J)		0.04 (J)						
11/10/2016				<0.1	0.03 (J)		0.04 (J)		
11/11/2016						0.04 (J)		<0.1	
11/14/2016									0.08 (J)
11/18/2016									
11/21/2016		0.07 (J)							
11/22/2016									
11/23/2016									
11/28/2016									
1/30/2017	<0.1						<0.1	<0.1	
1/31/2017			<0.1	<0.1	<0.1	<0.1			
2/1/2017									<0.1
2/3/2017		<0.1							
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)	<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-3A (bg)	GWA-2R (bg)	GWC-5	GWA-50 (bg)	GWA-50R (bg)	GWC-6RZ
3/13/2020									
3/16/2020		<0.1				<0.1			
3/17/2020									
9/15/2020	0.05 (J)		<0.1		<0.1			<0.1	
9/16/2020						<0.1	<0.1		<0.1
9/17/2020		<0.1							
9/21/2020									
9/22/2020									
3/16/2021	<0.1				<0.1				
3/17/2021			<0.1			<0.1	<0.1	<0.1	<0.1
3/18/2021		<0.1							
3/19/2021									
3/29/2021				0.053 (J)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 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-13RZ	GWC-12
4/3/2017									
4/6/2017	<0.1	<0.1	<0.1						
4/7/2017									
4/10/2017				<0.1	<0.1	<0.1	<0.1		
4/11/2017								0.16 (J)	<0.1
4/12/2017									
6/9/2017									
6/12/2017									
6/13/2017	0.006 (J)	<0.1							
6/14/2017			<0.1	0.02 (J)	<0.1				0.01 (J)
6/15/2017						0.03 (J)	<0.1		
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								<0.1	
8/24/2017									
10/2/2017									
10/3/2017	<0.1	<0.1							
10/4/2017			<0.1	<0.1	<0.1	<0.1	<0.1		<0.1
10/5/2017									
10/6/2017								0.14 (J)	
10/9/2017									
3/16/2018									
3/19/2018	<0.1								
3/20/2018		<0.1		<0.1					
3/21/2018			<0.1		<0.1	<0.1			
3/22/2018							<0.1		<0.1
3/23/2018								0.24 (J)	
9/14/2018									
9/17/2018	<0.1								
9/18/2018		<0.1 (D)	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1
9/19/2018									
9/20/2018								<0.1	
3/19/2019									
3/20/2019									
3/21/2019	<0.1	<0.1							
3/22/2019				0.045 (J)	<0.1			0.12 (J)	
3/23/2019						<0.1	<0.1		<0.1
3/25/2019									
3/27/2019			<0.1						
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	<0.1	<0.1	<0.1 (D)						
9/17/2019				<0.1	<0.1	<0.1	<0.1		<0.1 (D)
9/18/2019								0.17 (X)	
3/11/2020									
3/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15Z	GWC-15R	GWC-7Z	GWC-14Z	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		0.011 (J)	0.00288 (J)		1.78243 (J,o)	
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				<0.1		
8/3/2016						
8/4/2016	0.09 (J)		<0.1			
8/5/2016						
8/9/2016					0.04 (J)	
9/22/2016						
9/23/2016						
9/26/2016						
9/27/2016				<0.1		
9/28/2016						
9/29/2016	<0.1		<0.1			
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				<0.1		
2/3/2017						
2/6/2017						
2/7/2017						
2/8/2017						
2/9/2017	0.24 (J)				0.08 (J)	
2/10/2017		<0.1	<0.1			
2/13/2017						
2/22/2017						0.3
3/30/2017						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15Z	GWC-15R	GWC-7Z	GWC-14Z	GWA-4RZ (bg)
4/3/2017						
4/6/2017				0.008 (J)		
4/7/2017						0.19 (J)
4/10/2017						
4/11/2017		<0.1			<0.1	
4/12/2017	<0.1		<0.1			
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		0.04 (J)			0.05 (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						<0.1
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					<0.1	
10/6/2017		<0.1	<0.1			
10/9/2017	<0.1					
3/16/2018						
3/19/2018						
3/20/2018				<0.1		
3/21/2018	<0.1					0.24 (J)
3/22/2018					<0.1	
3/23/2018		<0.1	<0.1			
9/14/2018						
9/17/2018						
9/18/2018				<0.1		<0.1
9/19/2018	<0.1	<0.1	<0.1		<0.1	
9/20/2018						
3/19/2019						
3/20/2019						
3/21/2019				<0.1		0.19 (J)
3/22/2019		<0.1			<0.1	
3/23/2019	<0.1					
3/25/2019			<0.1			
3/27/2019						
5/6/2019						
9/12/2019						0.1 (J)
9/13/2019				<0.1		
9/16/2019						
9/17/2019		<0.1	<0.1		<0.1	
9/18/2019	<0.1					
3/11/2020						
3/12/2020				<0.1		0.18 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13	GWC-15Z	GWC-15R	GWC-7Z	GWC-14Z	GWA-4RZ (bg)
3/13/2020	<0.1	<0.1	<0.1		<0.1	
3/16/2020						
3/17/2020						
9/15/2020						
9/16/2020				<0.1		
9/17/2020						0.12 (J)
9/21/2020		<0.1	<0.1		<0.1	
9/22/2020	<0.1					
3/16/2021						0.1
3/17/2021				<0.1		
3/18/2021	<0.1	<0.1	<0.1		<0.1	
3/19/2021						
3/29/2021						

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-2R (bg)	GWA-3A (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
3/22/2016	7.65	7.53 (D)							
3/23/2016			6.7	7.45	5.96				
3/28/2016						7.04	6.45 (D)	6.22	
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				6.39	6.96		
5/26/2016									
5/27/2016									
5/31/2016									
6/1/2016									
7/29/2016	7.58		6.75	7.59	5.51				
8/1/2016						6.13	5.64	6.39	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					6.26	5.74	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						6.11	5.62		
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						5.49	5.88	
1/31/2017			5.66	7.56	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 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWA-1 (bg)	GWC-8Z	GWA-2 (bg)	GWA-2R (bg)	GWA-3A (bg)	GWC-5	GWA-50R (bg)	GWA-50 (bg)	GWC-6RZ
9/18/2019									
3/11/2020	7.51		6.56	7.09	5.31		5.4	5.57	
3/12/2020									6.88
3/13/2020									
3/16/2020		7.01				6.88			
3/17/2020									
9/15/2020	7.43		6.38	7.45			5.26		
9/16/2020						6		5.62	6.99
9/17/2020		7.05							
9/21/2020									
9/22/2020									
3/16/2021	7.57			7.51					
3/17/2021			6.58			5.85	6.31	5.64	7.03
3/18/2021		6.45							
3/19/2021									
3/29/2021					8.04				

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-6	GWC-8RR	GWC-9	GWC-10R	GWC-10	GWC-12	GWC-11R	GWC-11	GWC-13
4/3/2017									
4/6/2017	7.49	7.86	4.92						
4/7/2017									
4/10/2017				7.51	6.72		7.95	7.13	
4/11/2017						6.37			
4/12/2017									7.46
6/9/2017									
6/12/2017									
6/13/2017	7.38		5.03						
6/14/2017		7.66		7.34	6.83	5.85			
6/15/2017							7.79	7.1	
6/16/2017									7.36
7/12/2017									
7/14/2017									
7/20/2017									
7/26/2017									
7/27/2017									
7/28/2017									
8/9/2017									
8/10/2017									
8/24/2017									
10/2/2017									
10/3/2017	7.39		6.01						
10/4/2017		7.84		7.54	7.38	6.27	7.74	6.25	
10/5/2017									
10/6/2017									
10/9/2017									7.38
12/28/2017									
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	7.33
3/22/2018						6.45	7.72		
3/23/2018									
9/14/2018									
9/17/2018	7.57								
9/18/2018		7.92	5.36 (D)	7.66	7.14	6.42	7.88	6.9	
9/19/2018									7.31
9/20/2018									
3/19/2019									
3/20/2019									
3/21/2019	7.21		5.33						
3/22/2019				7.34	6.23				
3/23/2019						6.34	7.56	6.27	7.27
3/25/2019									
3/27/2019		8.07							
5/6/2019									
9/12/2019									
9/13/2019									
9/16/2019	7.35	7.9 (D)	6.03						
9/17/2019				7.51	7.16	6.19 (D)	7.58	6.55	

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-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	8.56					
4/5/2016		10.61	9.23	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			9.52	7.66	7.98	
6/1/2016	9.83	10.32				
7/29/2016						
8/1/2016						
8/2/2016					7.64	
8/3/2016						
8/4/2016				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				7.46		
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		7.29				
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		6.91				
2/10/2017			7.72	7.51		
2/13/2017						
2/22/2017	7.45					7.38
3/30/2017						

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	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	6.37	6.68	7.83			
4/12/2017				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	7.33					
7/12/2017	7.46	6.54	7.73			7.39
7/14/2017					7.5	
7/20/2017						7.44
7/26/2017			7.71			
7/27/2017	7.37					
7/28/2017	7.37					7.5
8/9/2017	7.38					7.52
8/10/2017	7.38					
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	6.55		7.74	7.58		
10/9/2017						
12/28/2017	7.43 (Y)					7.32 (Y)
1/9/2018						
3/16/2018						
3/19/2018						
3/20/2018					6.76	
3/21/2018						7.3
3/22/2018		6.93				
3/23/2018	7.58		7.89	7.34		
9/14/2018						
9/17/2018						
9/18/2018					7.26	7.26
9/19/2018		6.88	7.77	7.66		
9/20/2018	7.43					
3/19/2019						
3/20/2019						
3/21/2019					7.3	7.28
3/22/2019	7.49	6.27	7.55			
3/23/2019						
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		6.04	7.76	7.35		

Prediction Limit

Constituent: pH (pH units) Analysis Run 4/30/2021 11:36 AM View: App III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

	GWC-13RZ	GWC-14Z	GWC-15Z	GWC-15R	GWC-7Z	GWA-4RZ (bg)
9/18/2019	7.5					
3/11/2020						
3/12/2020					7.53	7.55
3/13/2020		6.16	7.68	7.56		
3/16/2020						
3/17/2020	7.62					
9/15/2020						
9/16/2020					7.56	
9/17/2020						7.42
9/21/2020		6.06	7.65	7.48		
9/22/2020	6.95					
3/16/2021						7.4
3/17/2021					7.52	
3/18/2021		6.04	7.87	7.58		
3/19/2021	7.42					
3/29/2021						

FIGURE J.

Appendix III Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:51 AM

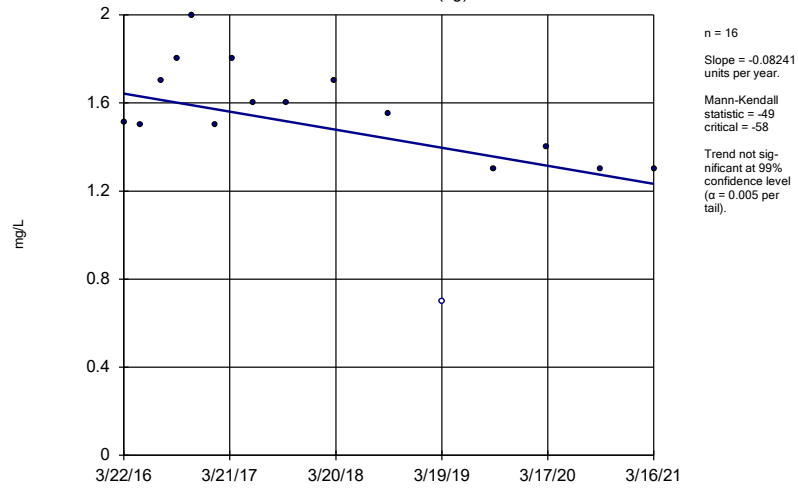
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-14Z	0.354	62	58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-3A (bg)	-0.1197	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 4/30/2021, 11:51 AM

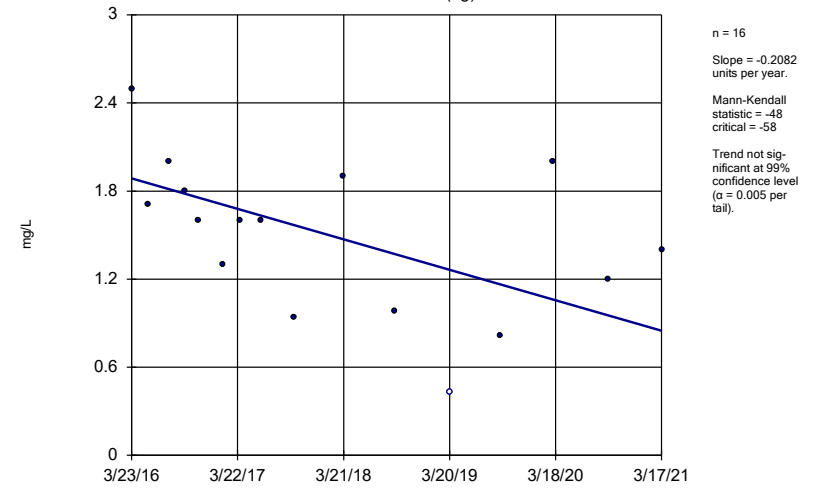
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWA-1 (bg)	-0.08241	-49	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	-0.2082	-48	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2R (bg)	-0.03791	-22	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4RZ (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-50 (bg)	-0.04771	-44	-58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-50R (bg)	-0.04795	-49	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-13RZ	0.4837	31	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-14Z	0.354	62	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	-0.01447	-33	-53	No	15	6.667	n/a	n/a	0.01	NP
pH (pH units)	GWA-1 (bg)	-0.0235	-43	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-2 (bg)	-0.06777	-30	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-2R (bg)	-0.04794	-36	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-4RZ (bg)	-0.01113	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-50 (bg)	-0.07579	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-50R (bg)	-0.1315	-44	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-8RR	-0.01236	-10	-63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-9	-0.1631	-41	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-3A (bg)	-0.1197	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
GWA-1 (bg)



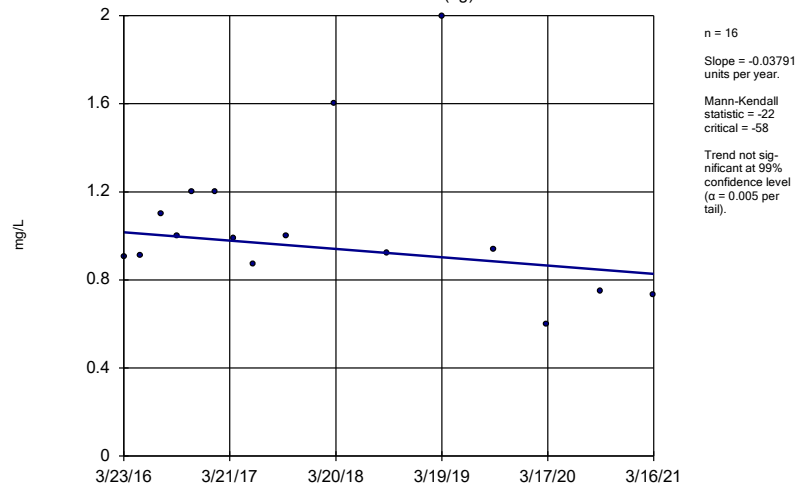
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2 (bg)



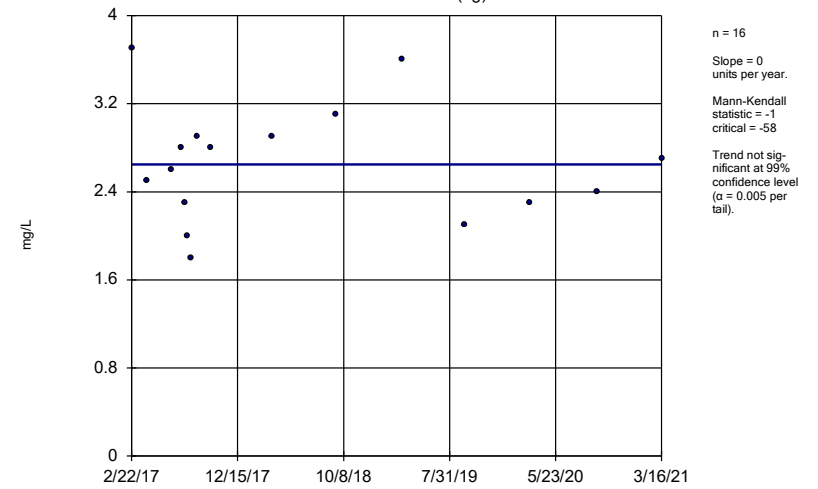
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-2R (bg)



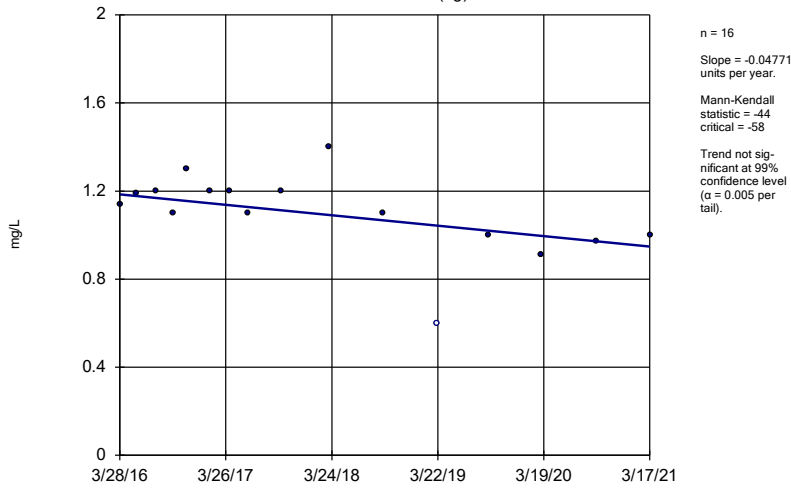
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator
GWA-4RZ (bg)



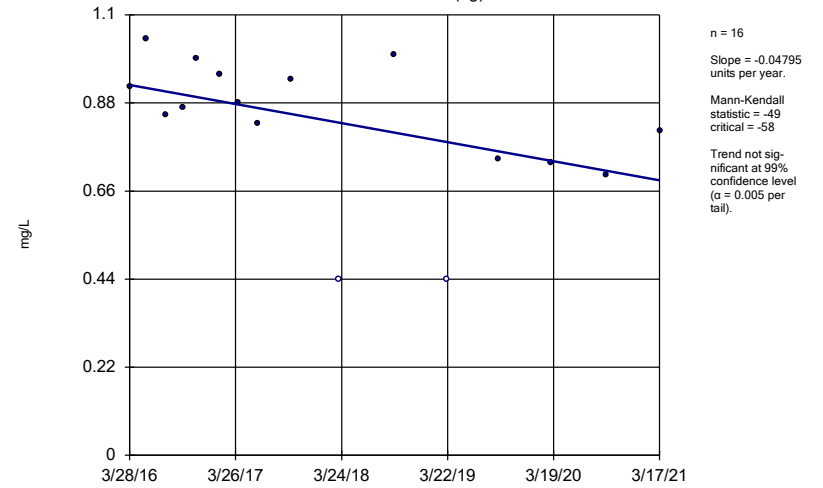
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-50 (bg)



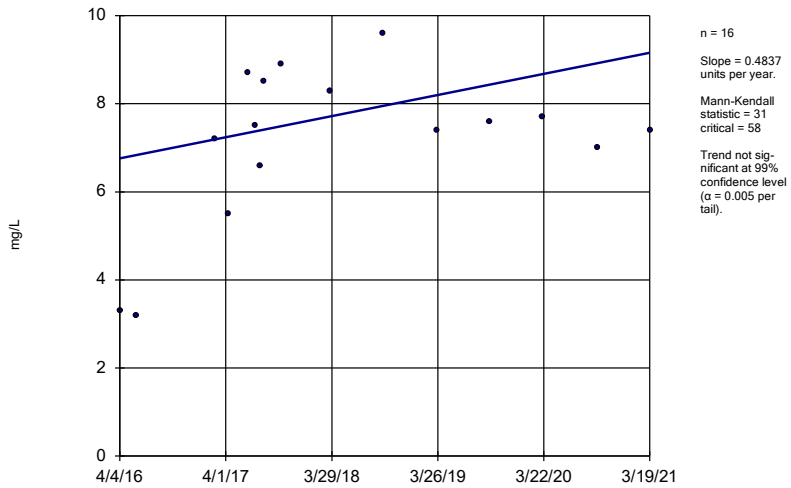
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-50R (bg)



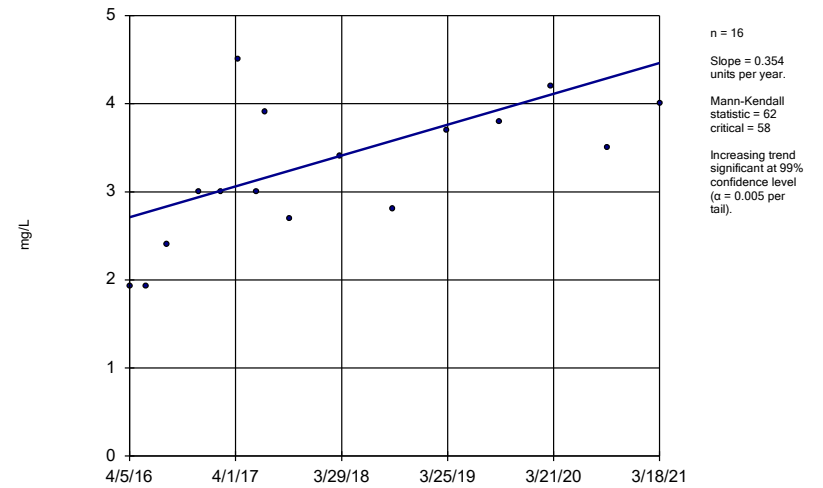
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWC-13RZ



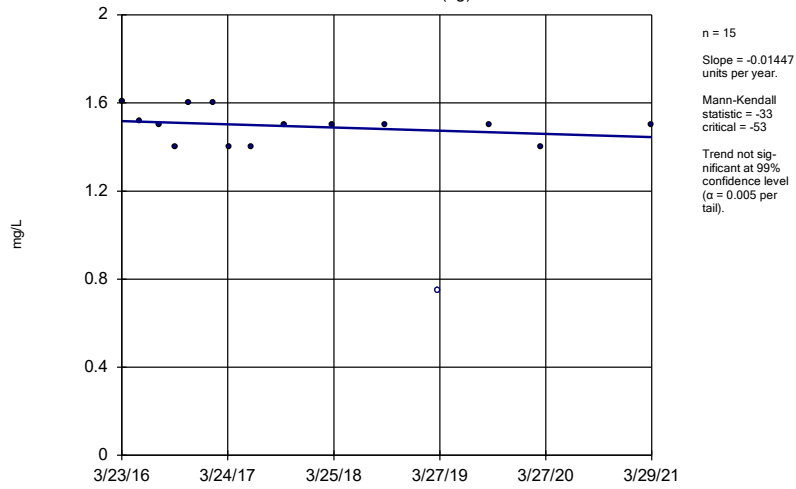
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWC-14Z



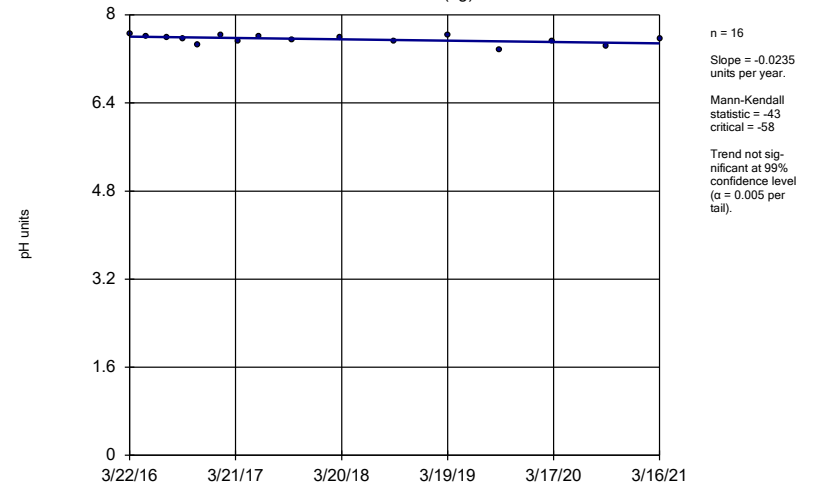
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-3A (bg)



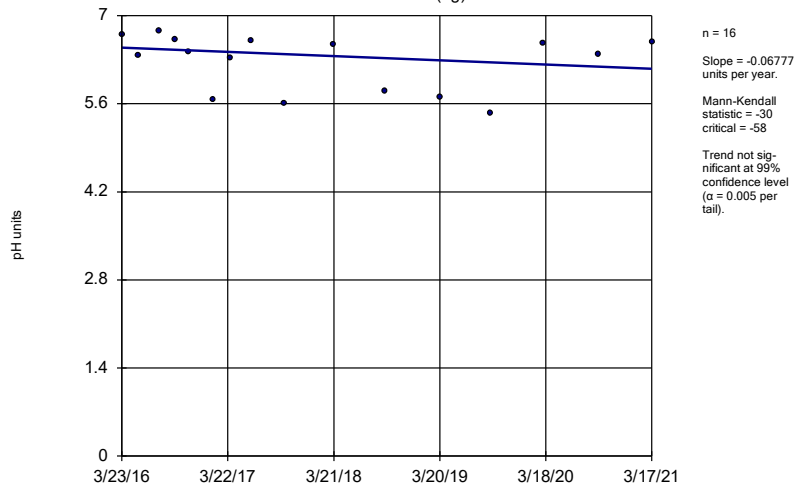
Constituent: Chloride Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-1 (bg)



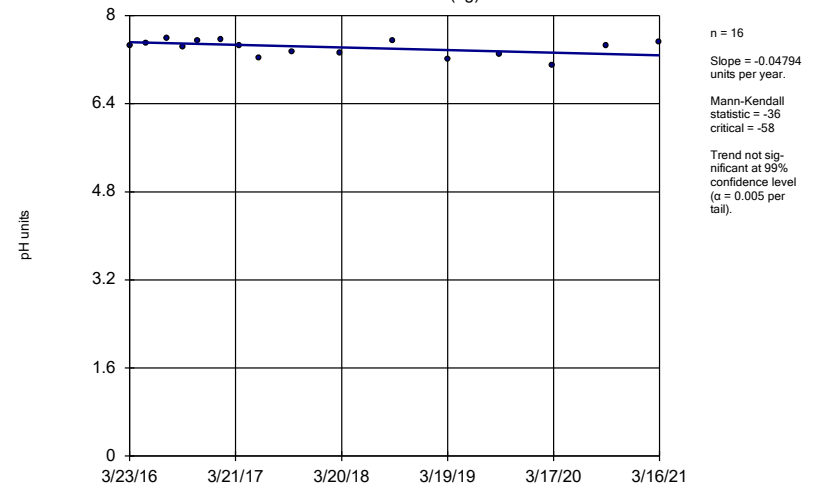
Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-2 (bg)



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

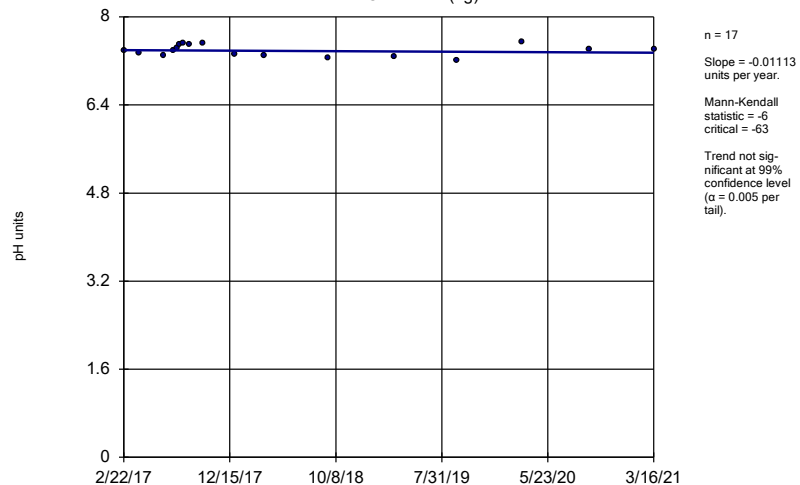
Sen's Slope Estimator GWA-2R (bg)



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

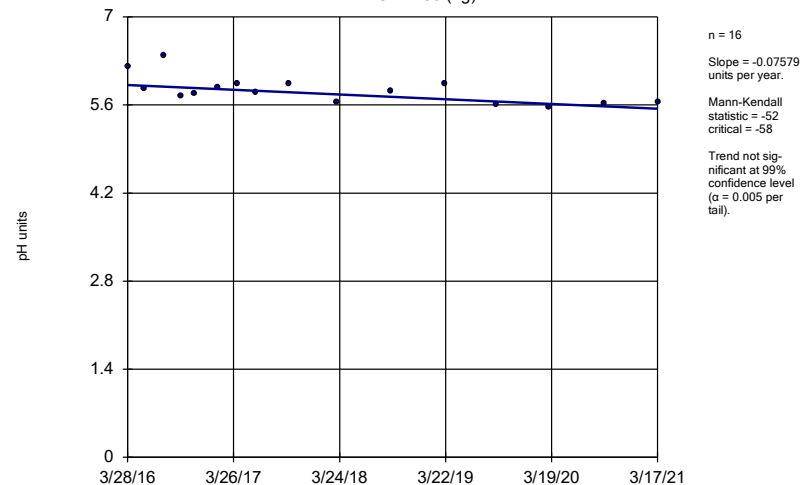
GWA-4RZ (bg)



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

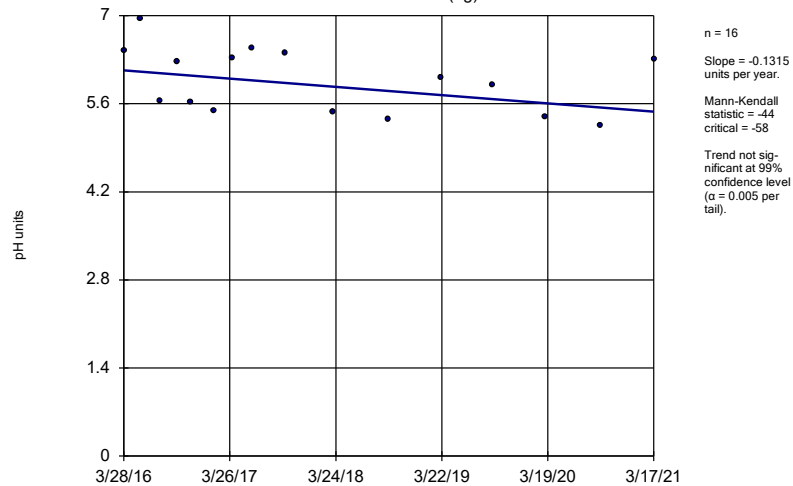
GWA-50 (bg)



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator

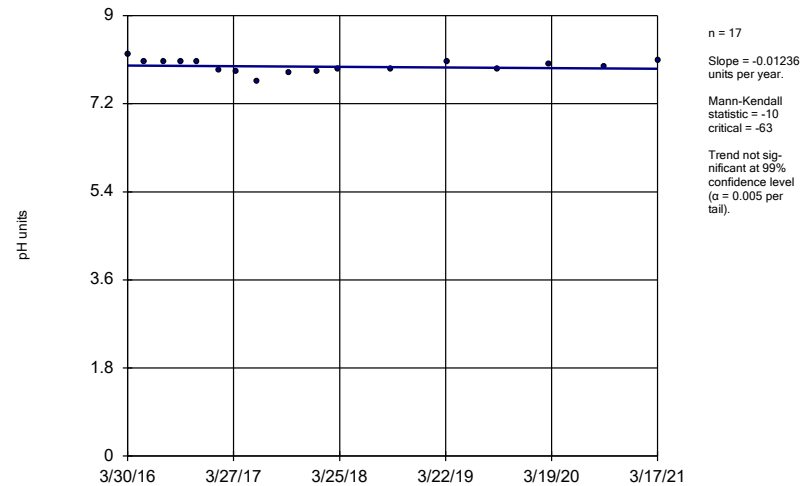
GWA-50R (bg)



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

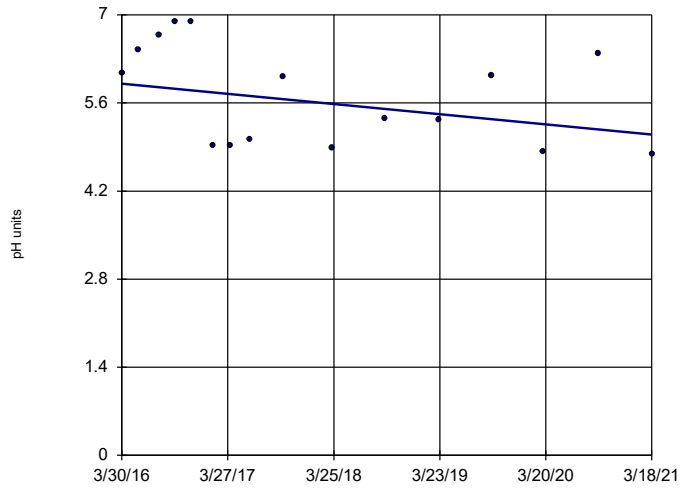
Sen's Slope Estimator

GWC-8RR



Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

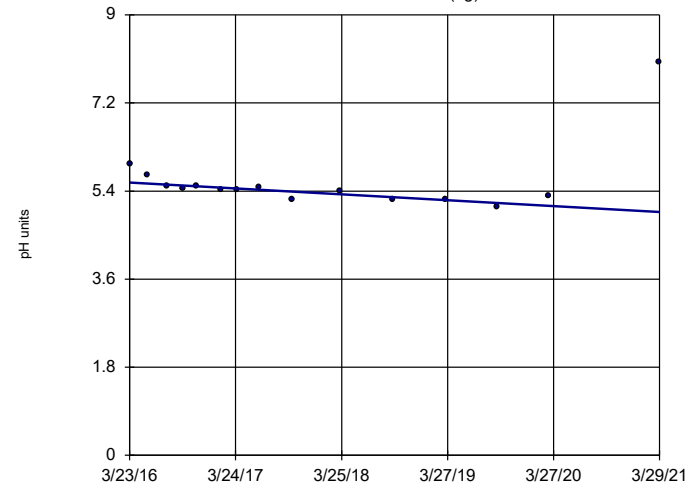
Sen's Slope Estimator GWC-9



n = 16
 Slope = -0.1631
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Sen's Slope Estimator GWA-3A (bg)



n = 15
 Slope = -0.1197
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/30/2021 11:50 AM View: App III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

FIGURE K.

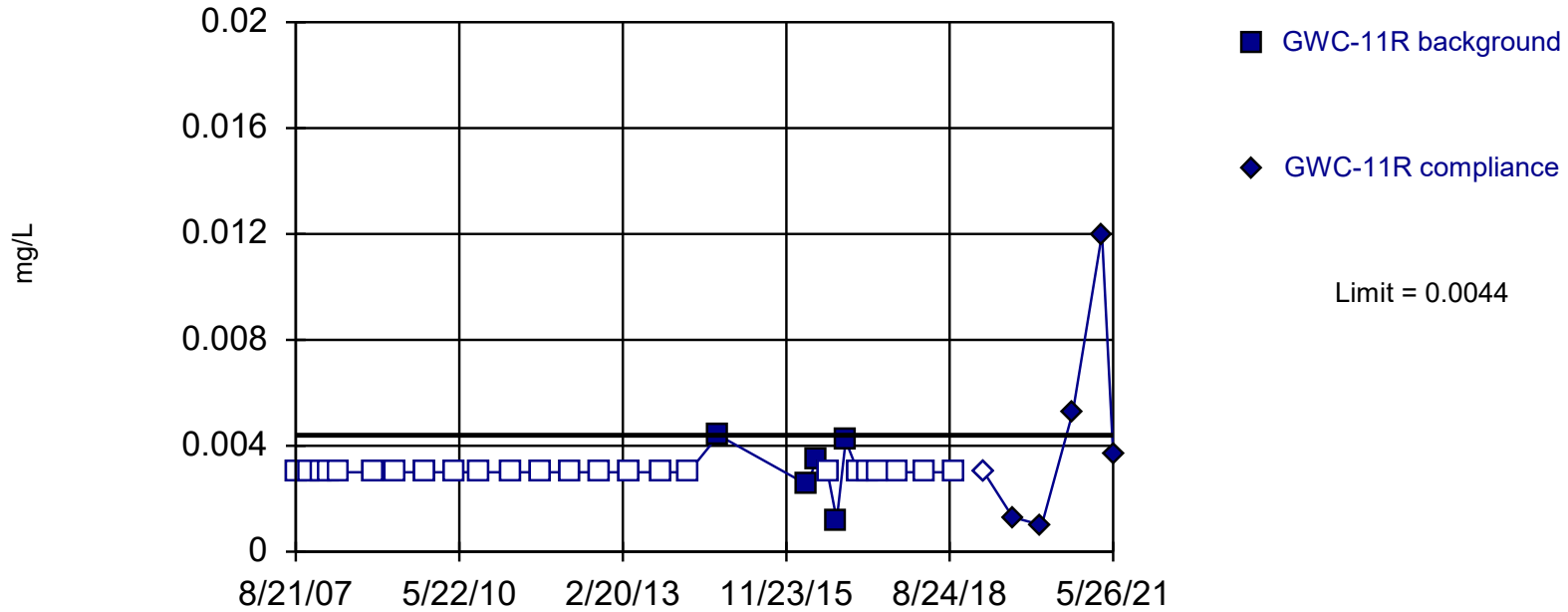
Appendix I Bedrock Intrawell Prediction Limits - Resample Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 6/22/2021, 11:35 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-11R	0.0044	n/a	5/26/2021	0.0037	No	30	n/a	n/a	83.33	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 6/22/2021 11:34 AM View: Bedrock - Resample
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 6/22/2021 11:35 AM View: Bedrock - Resample

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)
9/21/2020		0.0053
3/19/2021		0.012
5/26/2021		0.0037

FIGURE L.

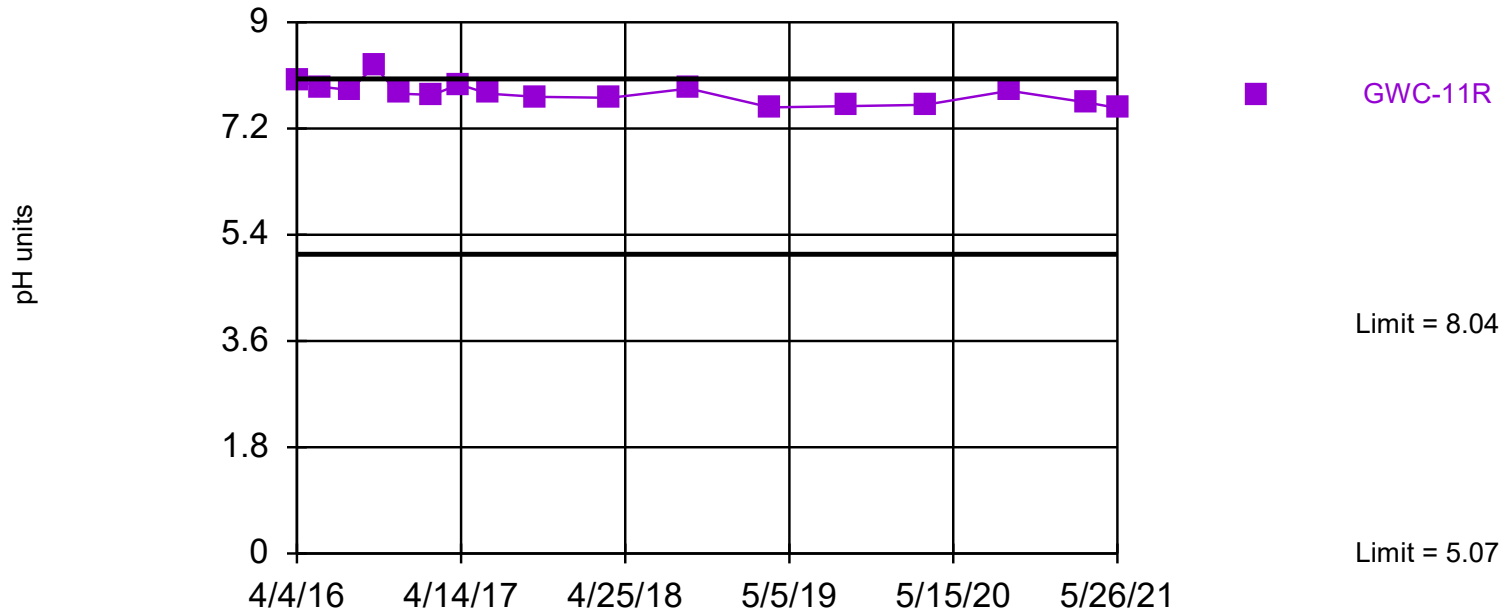
Appendix III Interwell Prediction Limits - Resample Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR Printed 6/22/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-11R	8.04	5.07	5/26/2021	7.55	No	112	n/a	n/a	0	n/a	n/a	0.0003138	NP Inter (normality) 1 of 2

Within Limits

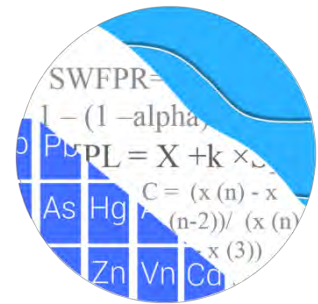
Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 112 background values. Annual per-constituent alpha = 0.01064. Individual comparison alpha = 0.0003138 (1 of 2). Assumes 16 future values.

Constituent: pH Analysis Run 6/22/2021 11:42 AM View: App III - Resample
Plant Bowen Client: Southern Company Data: Bowen 1&2 CCR

GROUNDWATER STATS CONSULTING



August 24, 2021

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

Re: Plant Bowen Landfill Cells 3 & 4
February/March 2021 Sample Event – Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the February/March 2021 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 (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (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, and 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, and GWA-56

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 constituents listed below are evaluated in this report. The terms “parameters” and “constituents” are interchangeable.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia Appendix I 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% non-detects 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).

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 were provided with the screening report to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Appendix I 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 non-detects, 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% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier 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% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated

with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Two-Step Statistical Analysis

Intrawell statistical methods, combined with a 1-of-2 resample plan, may be used as a conservative first step for identifying potential facility impacts in downgradient wells. Intrawell methods use background data for individual wells and may be overly sensitive to natural variation. In particular for nonparametric limits with small background sample sizes, the probability of a false positive is much higher than the desired annual sitewide rate of 10%. Therefore, a large number of exceedances may occur as a result of natural variation rather than facility impacts. A second step can be used to further evaluate those exceedances and reduce the overall number of SSIs that result from natural variation. In instances where intrawell statistical methods identify an apparent SSI, a second step of interwell statistical evaluation may be used to determine whether the measurement exceeds the sitewide background limit based on pooled upgradient well data. This is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" (USEPA Unified Guidance (2009), Chapter 7, Section 7.5). For the detection monitoring program, if the result does not exceed sitewide (interwell) background, an SSI is not declared.

When the result exceeds the sitewide (interwell) background, the 1-of-2 resample plan allows for collection of an independent resample to confirm or disconfirm the initial finding. A statistically significant increase is not declared unless the resample also exceeds the intrawell prediction limit (United States Environmental Protection Agency (USEPA) Unified Guidance, March 2009, Chapter 19). When the resample confirms the initial exceedance, 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). When any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. In cases where intrawell and interwell exceedances are noted and no resamples are collected, the initial exceedance will be considered a confirmed statistically significant increase (SSI).

Trend tests, in addition to interwell prediction limits, are recommended for well/constituent pairs found to have an initial intrawell SSI. Trend analysis will provide for

detection of long-term changes and potential facility impacts at a given well in cases where the concentrations at that well remain below the sitewide upgradient limits. Thus, the two-step approach has additional capability to detect long-term changes at downgradient wells compared to interwell methods alone. While a trend may be identified by visual inspection, a quantification of the trend and its significance is needed to identify whether concentrations are statistically significantly increasing, decreasing, or remaining stable over time. The absence of a statistically significant increasing trend indicates that an initial intrawell exceedance is short-term and may be the result of natural variation rather than facility impact to groundwater. If a facility impact has occurred, it will likely result in additional exceedances in future sampling events. When a statistically significant increasing trend is noted, additional data may be needed to demonstrate that there is reasonable evidence that the initial intrawell statistical exceedance is a result of natural variation rather than a result of impact to groundwater quality downgradient of the facility.

Background Screening Summary Georgia EPD Constituents – Conducted in August 2019

Outliers & Trend Testing

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 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 non-detects 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.

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 non-detects. 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. An outlier summary, including both CCR Appendix III and Georgia EPD Appendix I parameters, follows this letter.

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 but adjustments to eliminate the trends were made only for barium and zinc

in well GWA-36 because the magnitudes of trends in the other wells are low relative to the average concentrations. Truncation of earlier data is based on an assumption that the increasing trend is not the result of the facility. This assumption is discussed later along with the use of intrawell methods. A summary of the background date 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 Appendix III 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 (for fluoride, sulfate, and TDS) 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. The Appendix III outliers are included in the outlier summary following this letter (Figure C).

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 Appendix I Constituents – February/March 2021

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). The February/March 2021 data from each well were compared to these intrawell background limits. No statistical analyses were included for well/constituent pairs with 100% non-detects and a list of these well/constituent pairs follows this report.

As discussed earlier, the most recent reporting limit is substituted on a well-by-well basis for computing prediction limits. Therefore, individual wells can have different substitutions for a given parameter depending on what the laboratory has reported for each well. The time series, however, substitutes the most recent reporting limit for all wells, using the same limit across all wells. Note that the reporting limit for zinc increased to 0.02 mg/L during this analysis from the historical reporting limit of 0.01 mg/L for wells GWC-21R and GWC-22R. Specifically, for GWC-21R, this resulted in a change from a parametric intrawell prediction limit to a non-parametric intrawell prediction limit. Additionally, the following reporting limit changes occurred:

- Beryllium: <0.003 mg/L to <0.0005 mg/L
- Cadmium: <0.0025 mg/L to <0.0005 mg/L
- Chromium: <0.01 mg/L to <0.005 mg/L
- Copper: <0.025 mg/L to <0.005 mg/L
- Lead: <0.005 mg/L to <0.001 mg/L
- Mercury: <0.0005 mg/L to <0.0002 mg/L
- Nickel: <0.01 mg/L to <0.005 mg/L
- Selenium: <0.01 mg/L to <0.005 mg/L
- Silver: <0.01 mg/L to <0.005 mg/L

As a result, slight changes were noted in the intrawell prediction limits from the previous sample event, but no exceedances occurred from these changes.

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 wells. A summary of the Georgia EPD Appendix I prediction limits follows 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 trend testing was required during this report for the Georgia EPD Appendix I parameters.

Evaluation of Appendix III Parameters – February/March 2021

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 E). The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were identified for the following well/constituent pairs:

- Chloride: GWA-55 and GWA-55R (both upgradient)
- pH: GWC-25R
- Sulfate: GWA-52 (upgradient), GWC-21R, and GWC-23R

Following the two-step analysis as described above, interwell prediction limits were then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedances among downgradient wells (Figure F). No statistical exceedances were noted; therefore, no further action was necessary.

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 February/March 2021 (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. The following interwell prediction limits exceedances were noted:

- Calcium: GWC-16R, GWC-17R, GWC-21R, and GWC-23R

Data from downgradient well/constituent pairs found to exceed their respective prediction limit for both intrawell and interwell methods were further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents (Figure H). Complete graphical results of the trend tests follow this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Chloride: GWA-38 (upgradient)
- Sulfate: GWA-51RZ (upgradient) and GWC-21R

Decreasing

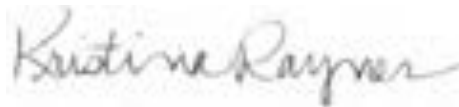
- Calcium: GWA-36 and GWA-37 (both upgradient)
- Chloride: GWA-36R, GWA-38, and GWA-54 (all upgradient)
- pH: GWA-36, GWA-36R, and GWA-37 (all upgradient)
- Sulfate: GWA-36, GWA-37, and GWA-54 (all upgradient)

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

Date Ranges

Date: 5/5/2021 6:33 PM

Plant Bowen Client: Southern Company Data: Bowen 3&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

100% Non-Detects: Appendix I

Analysis Run 5/11/2021 9:33 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Antimony (mg/L)

GWA-38, GWA-52, GWC-19R, GWC-22R

Arsenic (mg/L)

GWA-36

Beryllium (mg/L)

GWA-52, 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

Cobalt (mg/L)

GWA-52, GWA-53, GWA-53R, GWA-56, GWC-17R, GWC-19R, GWC-20R, GWC-23R, GWC-24R

Lead (mg/L)

GWA-52, 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-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-25R

Appendix I Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-36	0.0032	n/a	2/24/2021	0.00068J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-36R	0.003	n/a	3/26/2021	0.00092J	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-37	0.0052	n/a	2/24/2021	0.0012J	No	20	n/a	n/a	45	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-51RZ	0.0033	n/a	2/25/2021	0.00061J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-53	0.003	n/a	2/26/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-53R	0.0034	n/a	2/26/2021	0.0006J	No	20	n/a	n/a	60	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-54	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-55	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-55R	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-56	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/9/2021	0.018	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWC-17R	0.003	n/a	3/10/2021	0.003ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.003	n/a	2/26/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-18R	0.003	n/a	2/26/2021	0.00059J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20R	0.003	n/a	3/9/2021	0.003ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-21R	0.0064	n/a	3/9/2021	0.0024J	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWC-23R	0.003	n/a	3/10/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.00035J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-25R	0.003	n/a	3/9/2021	0.003ND	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-38	0.0062	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-51RZ	0.008095	n/a	2/25/2021	0.005ND	No	19	0.002535	0.002138	36.84	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Arsenic (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.00094J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.0045J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.0018J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-36	0.01907	n/a	2/24/2021	0.016	No	15	0.01257	0.002339	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-36R	0.03424	n/a	3/26/2021	0.02	No	20	0.02211	0.004732	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-37	0.014	n/a	2/24/2021	0.0044J	No	20	0.008485	0.002151	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-38	0.01787	n/a	2/24/2021	0.013	No	19	0.01284	0.001936	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-51RZ	0.0345	n/a	2/25/2021	0.018	No	20	0.01511	0.007558	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-52	0.04903	n/a	2/24/2021	0.025	No	20	0.02779	0.008281	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-53	0.02258	n/a	2/26/2021	0.013	No	15	0.01479	0.002803	6.667	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-53R	0.01632	n/a	2/26/2021	0.015	No	20	0.0144	0.0007501	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-54	0.058	n/a	2/25/2021	0.034	No	20	n/a	n/a	5	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Barium (mg/L)	GWA-55	0.03737	n/a	2/25/2021	0.028	No	20	0.02333	0.005472	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-55R	0.08801	n/a	2/25/2021	0.034	No	20	0.05106	0.0144	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-56	0.03746	n/a	2/25/2021	0.032	No	20	0.02309	0.005602	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-16R	0.079	n/a	3/9/2021	0.058	No	20	0.2188	0.02428	0	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-17R	0.02153	n/a	3/10/2021	0.019	No	19	0.01975	0.0006818	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-18	0.04779	n/a	2/26/2021	0.017	No	19	0.0302	0.006763	0	None	No	0.0002993	Param Intra 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 2

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-18R	0.0176	n/a	2/26/2021	0.015	No	17	0.000002772	0.000001005	5.882	None	x^3	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-19R	0.01846	n/a	2/26/2021	0.016	No	19	0.01597	0.0009569	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-20R	0.03595	n/a	3/9/2021	0.027	No	20	0.02989	0.002362	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-21R	0.0377	n/a	3/9/2021	0.014	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-22R	0.07123	n/a	3/9/2021	0.045	No	20	0.03822	0.01287	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-23R	0.0421	n/a	3/10/2021	0.026	No	20	0.02645	0.006104	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-24R	0.03363	n/a	3/9/2021	0.021	No	19	0.02339	0.003934	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-25R	0.0167	n/a	3/9/2021	0.016	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-36	0.003	n/a	2/24/2021	0.00022J	No	20	n/a	n/a	35	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-36R	0.0032	n/a	3/26/2021	0.00019J	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-51RZ	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-53	0.003	n/a	2/26/2021	0.000051J	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-53R	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-55	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-55R	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-56	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-18	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-18R	0.003	n/a	2/26/2021	0.0002J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-19R	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-20R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-36	0.001664	n/a	2/24/2021	0.0012	No	20	0.0008898	0.000302	15	None	No	0.0002993	Param Intra 1 of 2
Cadmium (mg/L)	GWA-36R	0.001	n/a	3/26/2021	0.00015J	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-51RZ	0.00055	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-21R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-22R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-25R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.0006J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-38	0.01	n/a	2/24/2021	0.0018J	No	20	n/a	n/a	20	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-51RZ	0.02	n/a	2/25/2021	0.005ND	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-52	0.01	n/a	2/24/2021	0.00097J	No	20	n/a	n/a	60	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-53	0.01	n/a	2/26/2021	0.0008J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-53R	0.01	n/a	2/26/2021	0.00071J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-54	0.01	n/a	2/25/2021	0.0017J	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.00078J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-55R	0.01	n/a	2/25/2021	0.00083J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-56	0.01	n/a	2/25/2021	0.001J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-16R	0.01	n/a	3/9/2021	0.0024J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01201	n/a	2/26/2021	0.0014J	No	18	-5.726	0.4943	11.11	None	ln(x)	0.0002993	Param Intra 1 of 2
Chromium (mg/L)	GWC-18R	0.01	n/a	2/26/2021	0.00069J	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-19R	0.01	n/a	2/26/2021	0.00067J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20R	0.01	n/a	3/9/2021	0.00094J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-23R	0.01	n/a	3/10/2021	0.00073J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-25R	0.01	n/a	3/9/2021	0.00079J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 3

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	55	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-38	0.004336	n/a	2/24/2021	0.0011J	No	17	0.04368	0.008291	0	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Cobalt (mg/L)	GWA-51RZ	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-55	0.00715	n/a	2/25/2021	0.0039J	No	20	n/a	n/a	35	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-16R	0.00818	n/a	3/9/2021	0.00047J	No	20	0.0431	0.01846	15	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Cobalt (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-21R	0.0183	n/a	3/9/2021	0.0004J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-22R	0.01	n/a	3/9/2021	0.00066J	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-37	0.02858	n/a	2/24/2021	0.0083	No	10	0.01155	0.005241	0	None	No	0.0002993	Param Intra 1 of 2
Copper (mg/L)	GWA-38	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-51RZ	0.0066	n/a	2/25/2021	0.005ND	No	14	n/a	n/a	64.29	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-16R	0.025	n/a	3/9/2021	0.0025J	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-17R	0.008752	n/a	3/10/2021	0.005ND	No	15	0.03537	0.02093	40	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Copper (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.000062J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-36R	0.0069	n/a	3/26/2021	0.00095J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-37	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-38	0.0047	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-51RZ	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.00012J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.000064J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-54	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.00009J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.000038J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.000045J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.00011J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-17R	0.001	n/a	3/10/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.000094J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.00025J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-19R	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-23R	0.001	n/a	3/10/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-24R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-25R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 4

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWA-36	0.0002	n/a	2/24/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-36R	0.0002	n/a	3/26/2021	0.0002ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.000091J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.00013J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-51RZ	0.0002	n/a	2/25/2021	0.0002ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-16R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-17R	0.0002	n/a	3/10/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-18R	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-19R	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-20R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-21R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-22R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-23R	0.0002	n/a	3/10/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-24R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-25R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-36	0.0142	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-37	0.02948	n/a	2/24/2021	0.01	No	15	0.01434	0.005448	0	None	No	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWA-38	0.01429	n/a	2/24/2021	0.00091J	No	15	0.05358	0.02374	26.67	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWA-51RZ	0.005	n/a	2/25/2021	0.005ND	No	14	n/a	n/a	85.71	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-16R	0.02928	n/a	3/9/2021	0.0053	No	11	0.01443	0.004761	0	None	No	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-21R	0.01	n/a	3/9/2021	0.00075J	No	14	n/a	n/a	42.86	n/a	n/a	0.008612	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-51RZ	0.01	n/a	2/25/2021	0.0099	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.0018J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-38	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-36	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-36R	0.001	n/a	3/26/2021	0.001ND	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-51RZ	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-52	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-53	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	55	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-54	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWA-55	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-55R	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-16R	0.00116	n/a	3/9/2021	0.001ND	No	20	-8.321	0.6089	20	Kaplan-Meier	ln(x)	0.0002993	Param Intra 1 of 2
Thallium (mg/L)	GWC-18	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-20R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	45	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-21R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) ^{Page 5}

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	GWC-22R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-23R	0.001	n/a	3/10/2021	0.001ND	No	18	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.01ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-37	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-38	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-51RZ	0.01862	n/a	2/25/2021	0.01ND	No	13	0.006365	0.004195	46.15	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Vanadium (mg/L)	GWA-52	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-53	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-53R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-54	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-55R	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-56	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-16R	0.01	n/a	3/9/2021	0.003J	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-17R	0.01	n/a	3/10/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-19R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-21R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-22R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-23R	0.01	n/a	3/10/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-24R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-36	0.6606	n/a	2/24/2021	0.44	No	10	0.3509	0.09528	0	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-36R	0.2321	n/a	3/26/2021	0.046	No	14	0.06816	0.05752	0	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-37	0.01469	n/a	2/24/2021	0.0038J	No	15	0.007437	0.002609	6.667	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-38	0.01558	n/a	2/24/2021	0.02ND	No	14	0.06544	0.02083	21.43	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-51RZ	0.03012	n/a	2/25/2021	0.02ND	No	13	0.01304	0.00585	30.77	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-52	0.02	n/a	2/24/2021	0.02ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-53	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-53R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-54	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-55	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-55R	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-56	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-16R	0.09557	n/a	3/9/2021	0.025	No	15	0.0002999	0.0002062	6.667	None	x^3	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWC-17R	0.0219	n/a	3/10/2021	0.02ND	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-18	0.0225	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-18R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	33.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-20R	0.02	n/a	3/9/2021	0.02ND	No	14	n/a	n/a	28.57	n/a	n/a	0.008612	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-21R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	20	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-22R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-23R	0.02	n/a	3/10/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-24R	0.01	n/a	3/9/2021	0.0063J	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-25R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 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 N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWA-55	3.939	n/a	2/25/2021	6.7	Yes	13	3.137	0.3098	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55R	3.604	n/a	2/25/2021	4.8	Yes	13	2.938	0.2574	0	None	No	0.0006839	Param Intra 1 of 2
pH (pH units)	GWC-25R	7.874	7.241	3/9/2021	8.07	Yes	13	7.558	0.1224	0	None	No	0.000342	Param Intra 1 of 2
Sulfate (mg/L)	GWA-52	12.64	n/a	2/24/2021	29.2	Yes	13	6.378	2.42	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/9/2021	10.5	Yes	13	3.733	1.614	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/10/2021	56.8	Yes	13	13.96	4.844	0	None	No	0.0006839	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWA-36	2.751	n/a	2/24/2021	2	No	13	2.195	0.2147	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-36R	3.698	n/a	3/26/2021	2.5	No	13	3.017	0.2633	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-37	1.522	n/a	2/24/2021	0.84J	No	13	1.022	0.1933	7.692	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-38	3.142	n/a	2/24/2021	3.1	No	13	2.473	0.2586	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-51RZ	4.153	n/a	2/25/2021	2.7	No	13	3.179	0.3765	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-52	3.83	n/a	2/24/2021	3.3	No	13	2.279	0.5996	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-53	2.851	n/a	2/26/2021	2.3	No	13	2.48	0.1434	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-53R	3.327	n/a	2/26/2021	2.4	No	13	0.9493	0.09766	0	None	ln(x)	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-54	1.953	n/a	2/25/2021	0.78J	No	13	1.201	0.2909	7.692	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55	3.939	n/a	2/25/2021	6.7	Yes	13	3.137	0.3098	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55R	3.604	n/a	2/25/2021	4.8	Yes	13	2.938	0.2574	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-56	10.33	n/a	2/25/2021	4.4	No	13	6.322	1.55	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-16R	2.959	n/a	3/9/2021	1.5	No	13	1.914	0.4039	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-17R	7.985	n/a	3/10/2021	4.7	No	13	6.269	0.6635	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-18	2.764	n/a	2/26/2021	2.3	No	13	2.171	0.2291	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-18R	3.3	n/a	2/26/2021	2.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-19R	3.064	n/a	2/26/2021	2.4	No	13	2.447	0.2387	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-20R	2.711	n/a	3/9/2021	1.9	No	13	1.797	0.3534	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-21R	5.133	n/a	3/9/2021	5	No	13	4.046	0.42	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-22R	3.3	n/a	3/9/2021	2.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-23R	2.938	n/a	3/10/2021	1.6	No	13	2.051	0.3427	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-24R	3.423	n/a	3/9/2021	2.1	No	13	6.078	2.178	7.692	None	x*2	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-25R	3.206	n/a	3/9/2021	2.3	No	13	2.661	0.2106	0	None	No	0.0006839	Param Intra 1 of 2
pH (pH units)	GWA-36	7.43	6.39	2/24/2021	6.69	No	13	6.91	0.2008	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-36R	7.61	7.078	3/26/2021	7.11	No	13	7.344	0.1029	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-37	6.403	4.874	2/24/2021	5.49	No	13	5.638	0.2954	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-38	6.226	4.732	2/24/2021	5.23	No	13	5.479	0.2887	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-51RZ	7.749	7.257	2/25/2021	7.43	No	14	7.503	0.09723	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-52	7.772	7.234	2/24/2021	7.53	No	13	7.503	0.104	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-53	7.944	7.476	2/26/2021	7.7	No	13	7.71	0.09055	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-53R	7.946	7.603	2/26/2021	7.72	No	13	7.775	0.06628	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-54	7.939	7.275	2/25/2021	7.55	No	13	7.607	0.1283	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-55	7.85	6.813	2/25/2021	7.05	No	13	7.332	0.2005	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-55R	8.134	7.032	2/25/2021	7.27	No	13	7.583	0.2129	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-56	8.435	7.551	2/25/2021	7.85	No	14	7.993	0.1746	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-16R	7.505	6.817	3/9/2021	7.34	No	13	7.161	0.1329	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-17R	7.311	7.071	3/10/2021	7.27	No	13	7.191	0.04645	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-18	7.616	5.885	2/26/2021	7.07	No	13	6.751	0.3346	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-18R	8.062	7.418	2/26/2021	7.81	No	13	7.74	0.1244	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-19R	7.885	7.519	2/26/2021	7.73	No	13	7.702	0.07073	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-20R	7.945	7.323	3/9/2021	7.81	No	14	7.634	0.1228	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-21R	7.342	6.761	3/9/2021	6.98	No	13	7.052	0.1123	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-22R	8.056	7.094	3/9/2021	7.35	No	14	7.575	0.19	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-23R	7.832	6.951	3/10/2021	7.41	No	13	7.392	0.1702	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-24R	8.014	6.761	3/9/2021	7.8	No	13	7.388	0.2421	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-25R	7.874	7.241	3/9/2021	8.07	Yes	13	7.558	0.1224	0	None	No	0.000342	Param Intra 1 of 2
Sulfate (mg/L)	GWA-36	2.854	n/a	2/24/2021	0.51J	No	13	1.316	0.5945	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-36R	9.874	n/a	3/26/2021	5.4	No	13	1.713	0.5527	0	None	sqrt(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-37	1.16	n/a	2/24/2021	0.5ND	No	13	0.661	0.1927	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-38	2.958	n/a	2/24/2021	0.72J	No	13	1.285	0.6468	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-51RZ	32.12	n/a	2/25/2021	29.5	No	13	20.19	4.61	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-52	12.64	n/a	2/24/2021	29.2	Yes	13	6.378	2.42	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-53	2.285	n/a	2/26/2021	1.6	No	13	1.903	0.1477	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-53R	2.388	n/a	2/26/2021	1.6	No	13	1.939	0.1737	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-54	9.872	n/a	2/25/2021	1.7	No	13	5.531	1.678	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-55	48.37	n/a	2/25/2021	34.5	No	13	19.75	11.06	0	None	No	0.0006839	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWA-55R	29.73	n/a	2/25/2021	23.2	No	13	19.94	3.786	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-56	149.4	n/a	2/25/2021	62.6	No	13	84.7	25.01	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-16R	13.9	n/a	3/9/2021	12.9	No	13	7.229	2.577	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-17R	9.253	n/a	3/10/2021	7.3	No	12	1.876	0.1321	0	None	ln(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18	2.59	n/a	2/26/2021	2.1	No	13	2.009	0.2247	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18R	2.805	n/a	2/26/2021	2.1	No	12	2.362	0.1675	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-19R	4.3	n/a	2/26/2021	3.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-20R	1.97	n/a	3/9/2021	1.5	No	13	1.943	0.7494	0	None	x^2	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/9/2021	10.5	Yes	13	3.733	1.614	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-22R	2.79	n/a	3/9/2021	1.4	No	12	2.172	0.2339	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/10/2021	56.8	Yes	13	13.96	4.844	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-24R	16.95	n/a	3/9/2021	1.6	No	13	1.955	0.8353	0	None	sqrt(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-25R	2.06	n/a	3/9/2021	1.6	No	13	1.614	0.1727	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-36	155.2	n/a	2/24/2021	60	No	13	96.92	22.54	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-36R	235.5	n/a	3/26/2021	123	No	13	153.8	31.56	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-37	81.94	n/a	2/24/2021	10	No	12	4.428	1.75	33.33	Kaplan-Meier	sqrt(x)	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-38	119.7	n/a	2/24/2021	12	No	13	6.448	1.736	38.46	Kaplan-Meier	sqrt(x)	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-51RZ	343.9	n/a	2/25/2021	217	No	13	216.5	49.22	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-52	179.8	n/a	2/24/2021	144	No	12	141.4	14.53	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-53	174.6	n/a	2/26/2021	128	No	13	130.5	17.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-53R	193.3	n/a	2/26/2021	98	No	12	134.6	22.2	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-54	181.6	n/a	2/25/2021	124	No	13	125.2	21.8	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-55	277	n/a	2/25/2021	217	No	13	192.6	32.62	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-55R	247.1	n/a	2/25/2021	194	No	13	176.1	27.46	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-56	498.4	n/a	2/25/2021	284	No	13	328.7	65.59	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-16R	365	n/a	3/9/2021	335	No	13	290.5	28.8	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-17R	384.7	n/a	3/10/2021	256	No	13	330.2	21.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-18	161.2	n/a	2/26/2021	90	No	13	93.77	26.05	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-18R	191.3	n/a	2/26/2021	121	No	13	142.6	18.81	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-19R	229.2	n/a	2/26/2021	172	No	13	168.6	23.42	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-20R	234.6	n/a	3/9/2021	163	No	13	195.7	15.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-21R	435.3	n/a	3/9/2021	286	No	13	286.9	57.36	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-22R	199.8	n/a	3/9/2021	161	No	13	163.1	14.18	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-23R	374.2	n/a	3/10/2021	333	No	13	294.5	30.84	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-24R	209	n/a	3/9/2021	158	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/l)	GWC-25R	194.6	n/a	3/9/2021	153	No	13	23678	5490	0	None	x^2	0.0006839	Param Intra 1 of 2

Appendix III Interwell Prediction Limits - Intrawell Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-25R	8.34	4.94	3/9/2021	8.07	No	194	n/a	n/a	0	n/a	n/a	0.0001051	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21R	132.5	n/a	3/9/2021	10.5	No	192	n/a	n/a	2.604	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-23R	132.5	n/a	3/10/2021	56.8	No	192	n/a	n/a	2.604	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:31 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-16R	49.8	n/a	3/9/2021	76.4	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17R	49.8	n/a	3/10/2021	67.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21R	49.8	n/a	3/9/2021	64.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23R	49.8	n/a	3/10/2021	62.2	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:31 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-16R	0.04	n/a	3/9/2021	0.028J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.04	n/a	3/10/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.04	n/a	3/9/2021	0.015J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.04	n/a	3/9/2021	0.0058J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.04	n/a	3/10/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GWC-16R	49.8	n/a	3/9/2021	76.4	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17R	49.8	n/a	3/10/2021	67.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18	49.8	n/a	2/26/2021	25.2	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18R	49.8	n/a	2/26/2021	31.9	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-19R	49.8	n/a	2/26/2021	33.3	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20R	49.8	n/a	3/9/2021	35.8	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21R	49.8	n/a	3/9/2021	64.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22R	49.8	n/a	3/9/2021	35.7	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23R	49.8	n/a	3/10/2021	62.2	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-24R	49.8	n/a	3/9/2021	33.2	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-25R	49.8	n/a	3/9/2021	36.4	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.4	n/a	3/9/2021	0.25	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-17R	0.4	n/a	3/10/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-18	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-18R	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-19R	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-20R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-21R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-22R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-23R	0.4	n/a	3/10/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-24R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-25R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:03 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>
Calcium (mg/L)	GWA-36 (bg)	-1.723	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-37 (bg)	-0.04779	-97	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1337	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-37 (bg)	-0.09037	-73	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-38 (bg)	0.1267	61	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1696	-84	-58	Yes	16	6.25	n/a	n/a	0.01	NP
pH (pH units)	GWA-36 (bg)	-0.09936	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36R (bg)	-0.05452	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-37 (bg)	-0.1135	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.3578	-91	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.08982	-66	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.762	61	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.28	-109	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21R	1.595	81	58	Yes	16	6.25	n/a	n/a	0.01	NP

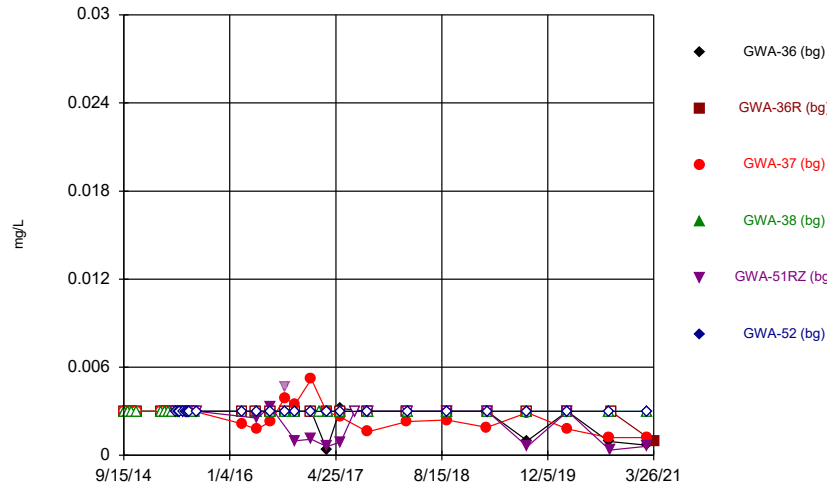
Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:03 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-36 (bg)	-1.723	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-36R (bg)	-0.1593	-11	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-37 (bg)	-0.04779	-97	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-38 (bg)	-0.04857	-8	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-51RZ (bg)	1.874	53	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-52 (bg)	0.412	29	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-53 (bg)	0.09564	6	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-53R (bg)	0.2744	27	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-54 (bg)	-0.2124	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-55 (bg)	2.888	57	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-55R (bg)	1.632	36	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-56 (bg)	-0.4786	-9	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16R	2.861	58	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17R	0.748	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21R	2.067	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-23R	1.695	42	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36 (bg)	-0.07484	-48	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1337	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-37 (bg)	-0.09037	-73	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-38 (bg)	0.1267	61	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-51RZ (bg)	-0.05507	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-52 (bg)	0.0002948	5	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-53 (bg)	-0.04978	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-53R (bg)	-0.05672	-43	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1696	-84	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-55 (bg)	0.02954	20	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-55R (bg)	0.103	32	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-56 (bg)	-0.3201	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36 (bg)	-0.09936	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36R (bg)	-0.05452	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-37 (bg)	-0.1135	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-38 (bg)	-0.03969	-14	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-51RZ (bg)	0.004947	9	63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-52 (bg)	-0.02575	-31	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-53 (bg)	-0.02837	-49	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-53R (bg)	-0.0242	-41	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-54 (bg)	-0.02427	-28	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-55 (bg)	-0.05599	-38	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-55R (bg)	-0.05379	-37	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-56 (bg)	0.02746	11	63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-25R	0.03098	32	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.3578	-91	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36R (bg)	0.3617	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.08982	-66	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-38 (bg)	-0.2533	-46	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.762	61	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-52 (bg)	0.7285	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-53 (bg)	-0.09987	-53	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-53R (bg)	-0.08567	-48	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.28	-109	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-55 (bg)	2.12	20	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-55R (bg)	0.6075	41	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-56 (bg)	-1.364	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21R	1.595	81	58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-23R	1.637	27	63	No	17	0	n/a	n/a	0.01	NP

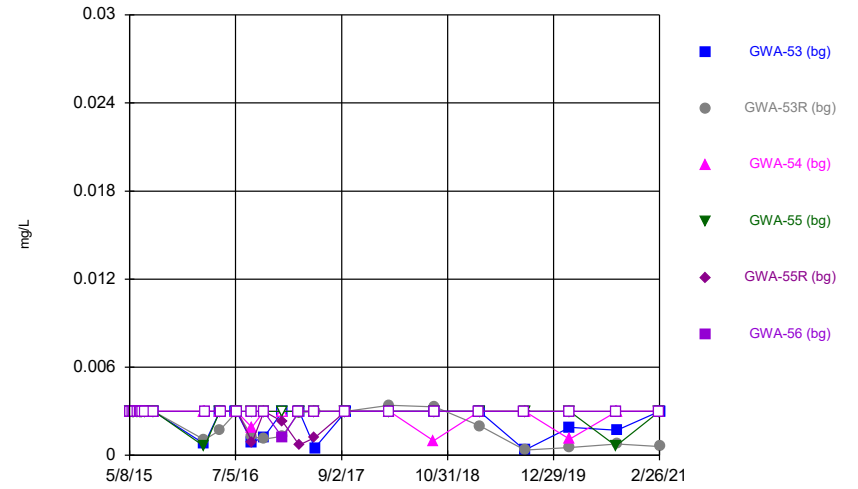
FIGURE A.

Time Series



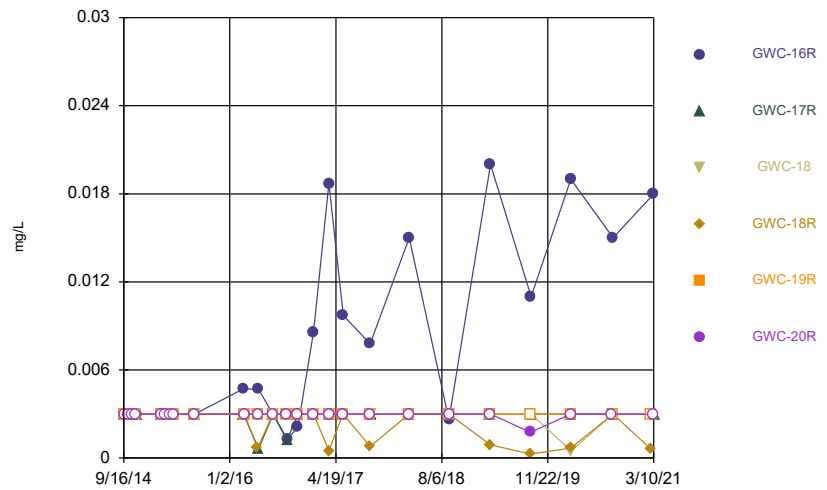
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



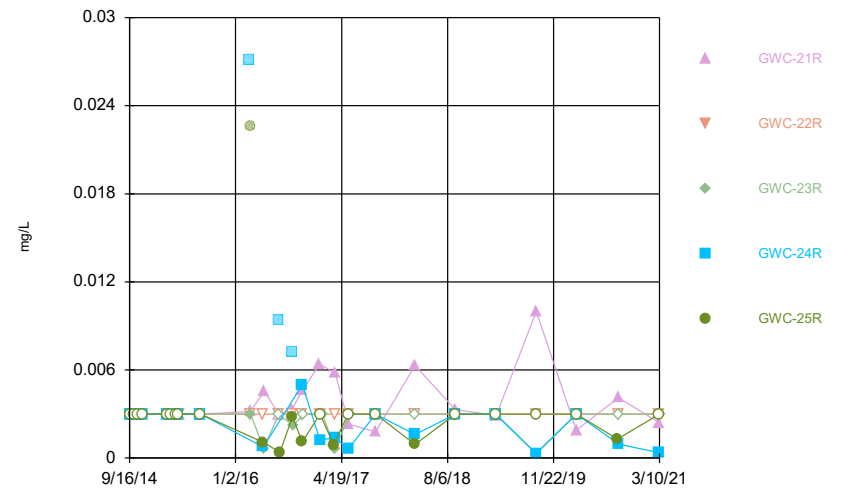
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



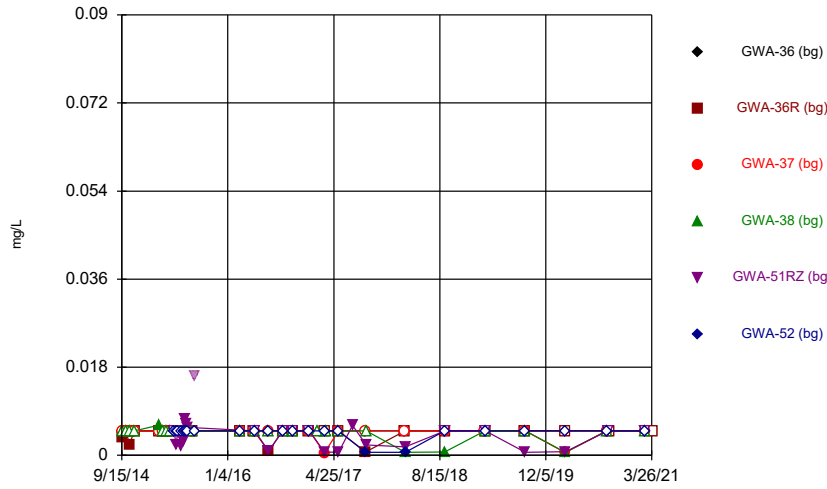
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Time Series



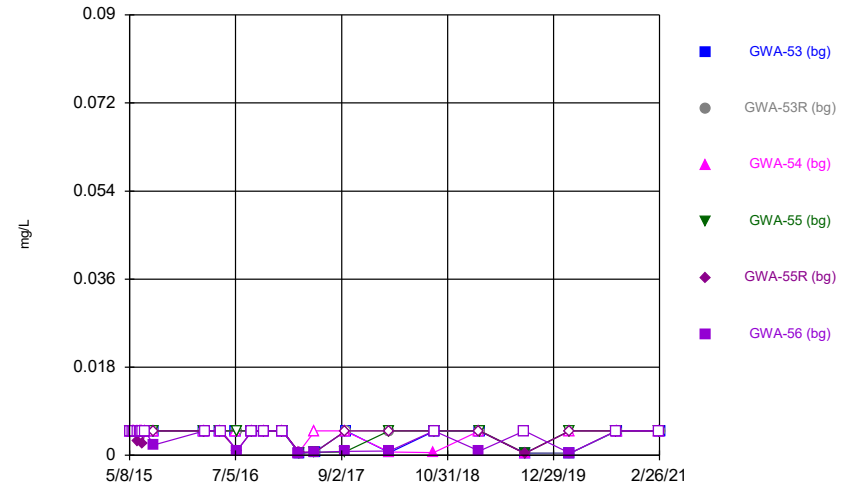
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Time Series



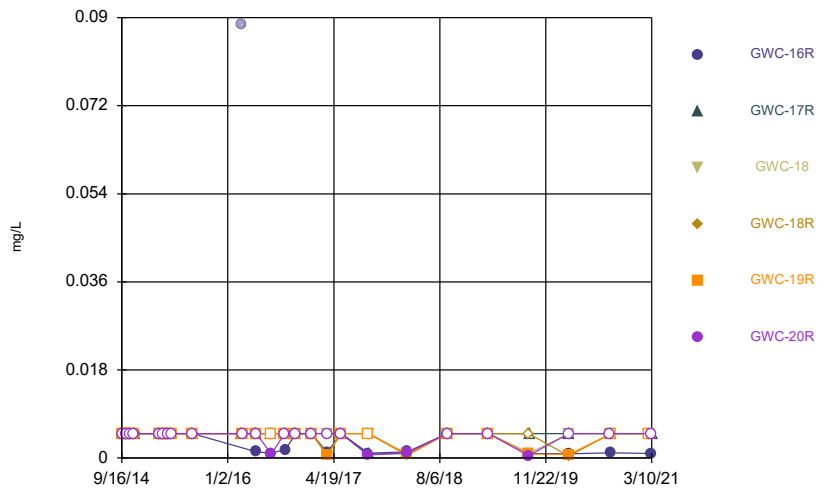
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



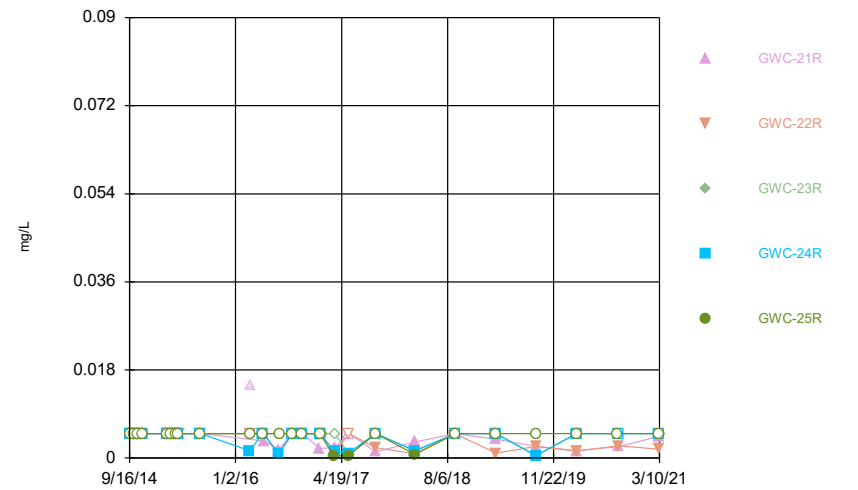
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Time Series



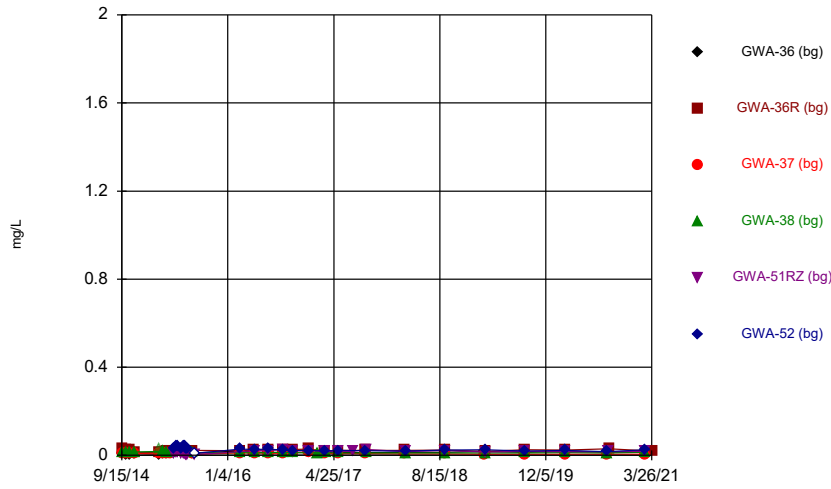
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Time Series



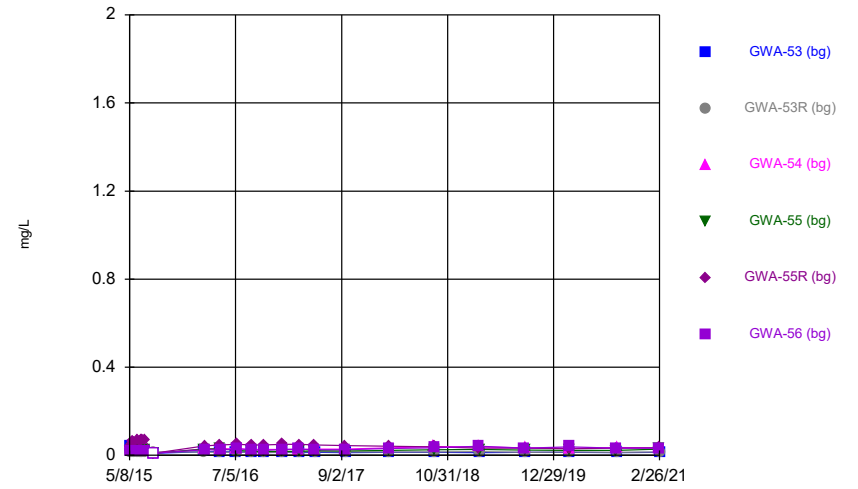
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



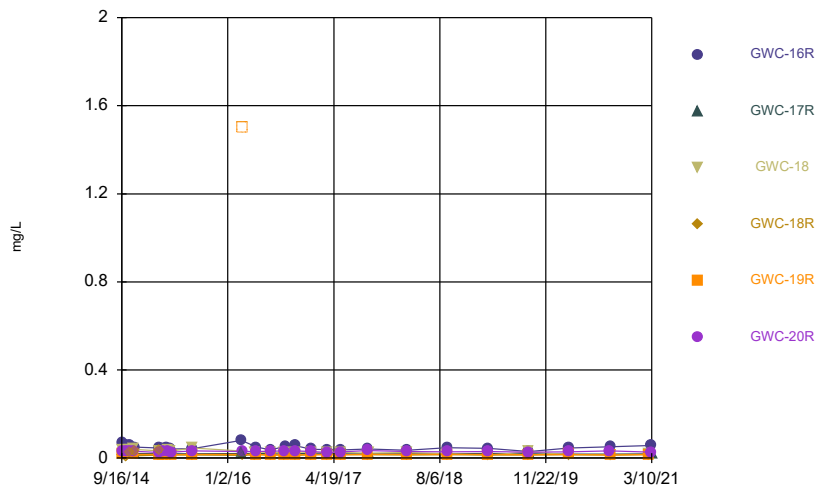
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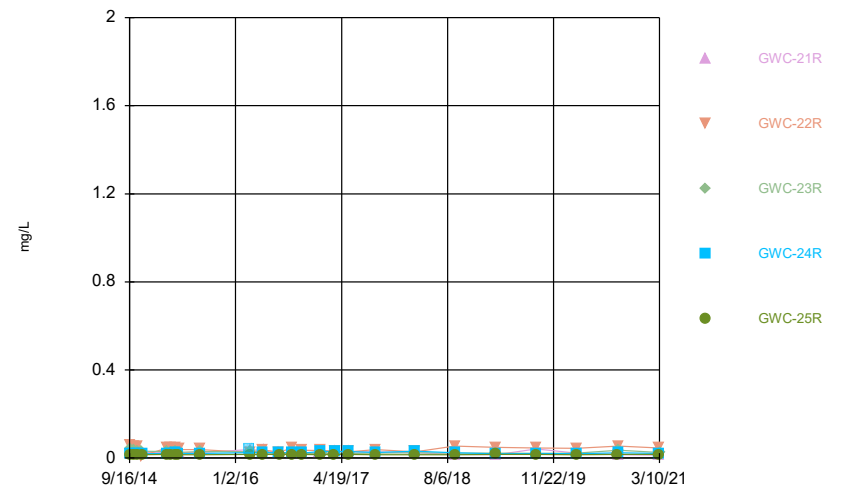
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



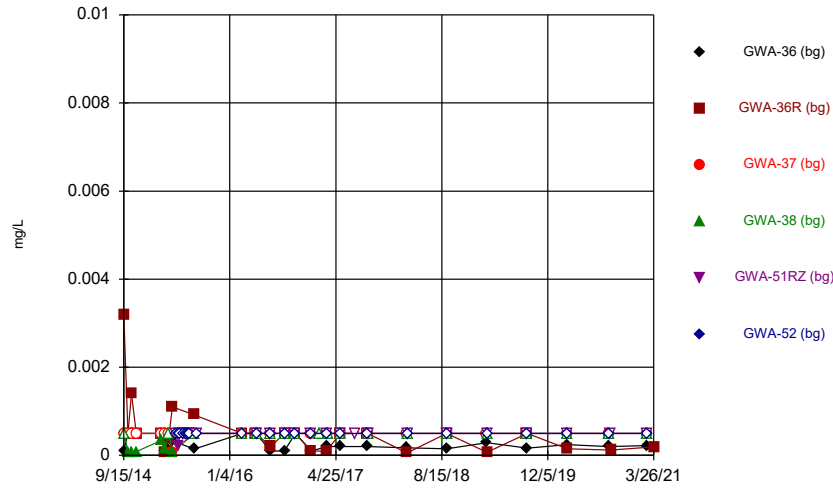
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Time Series



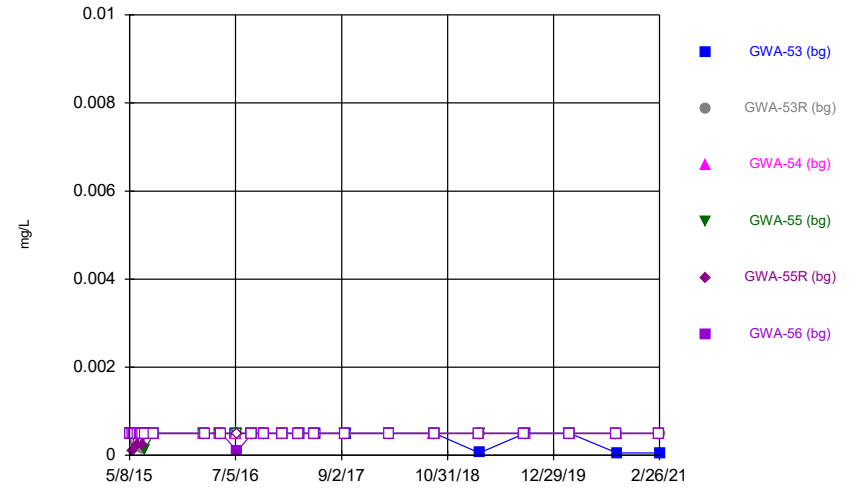
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



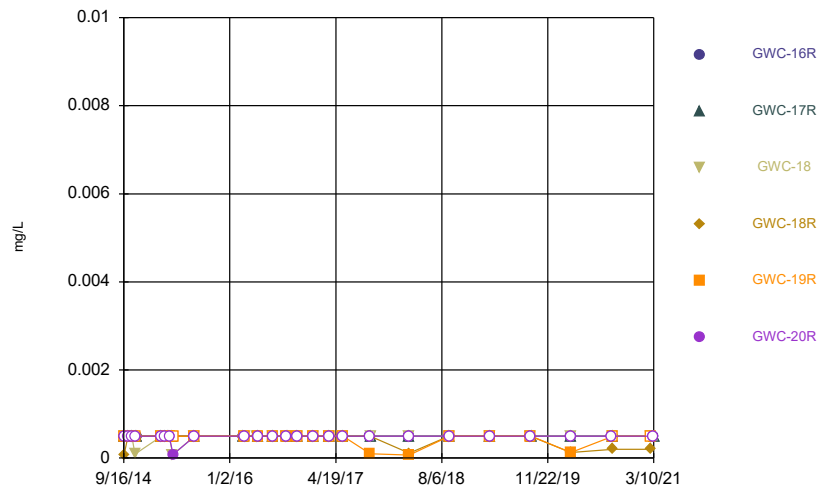
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Time Series



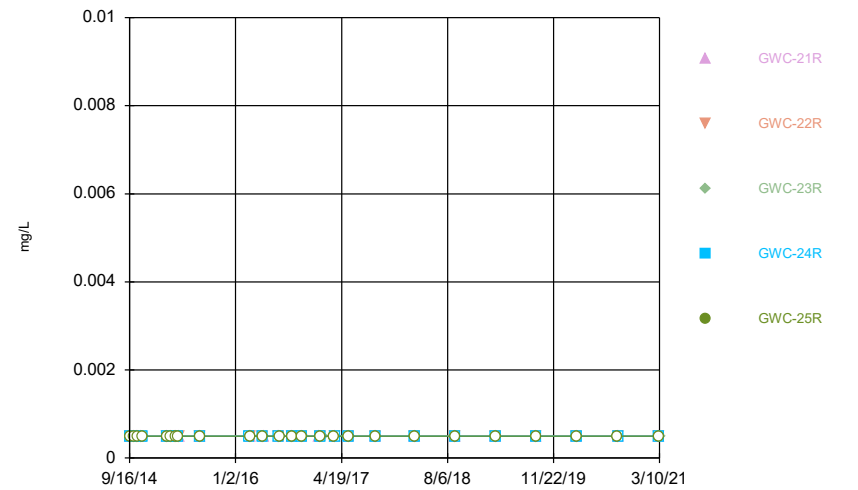
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



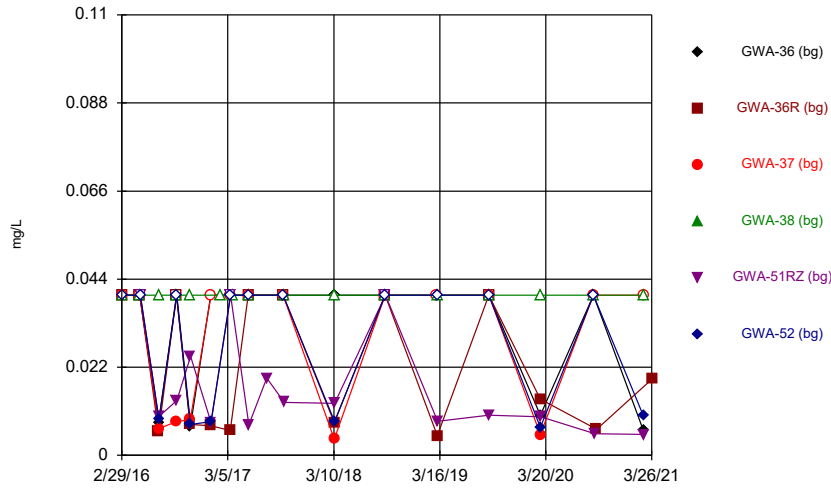
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



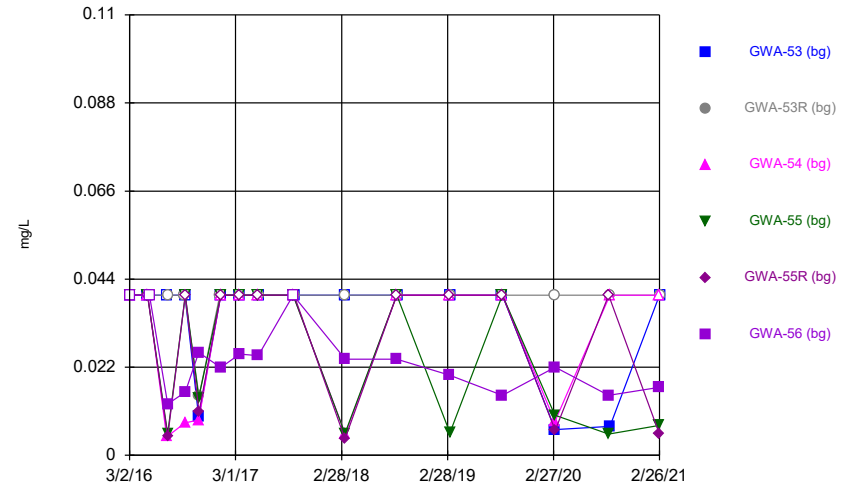
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



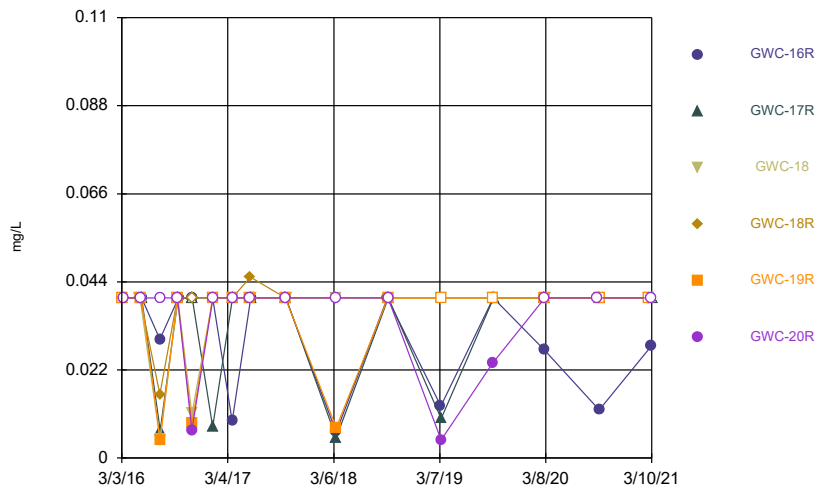
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



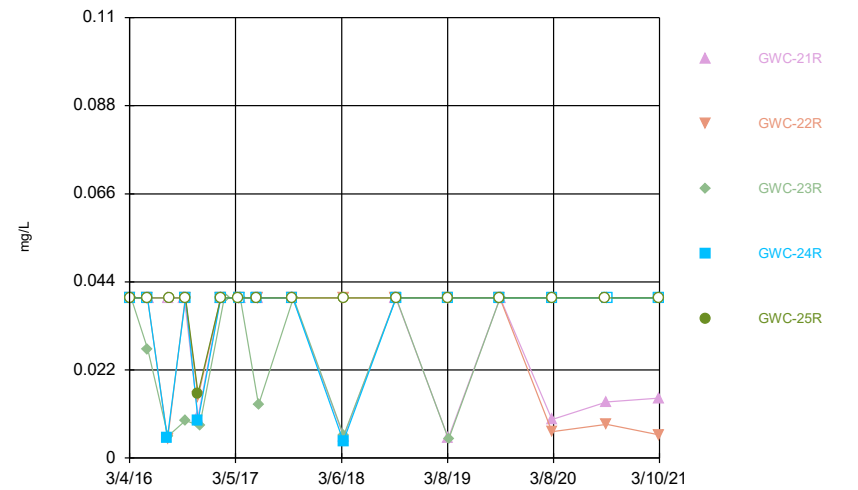
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



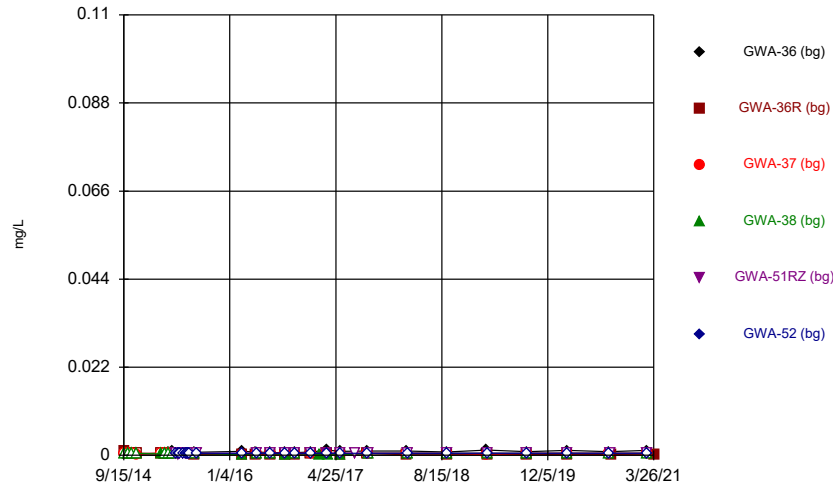
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



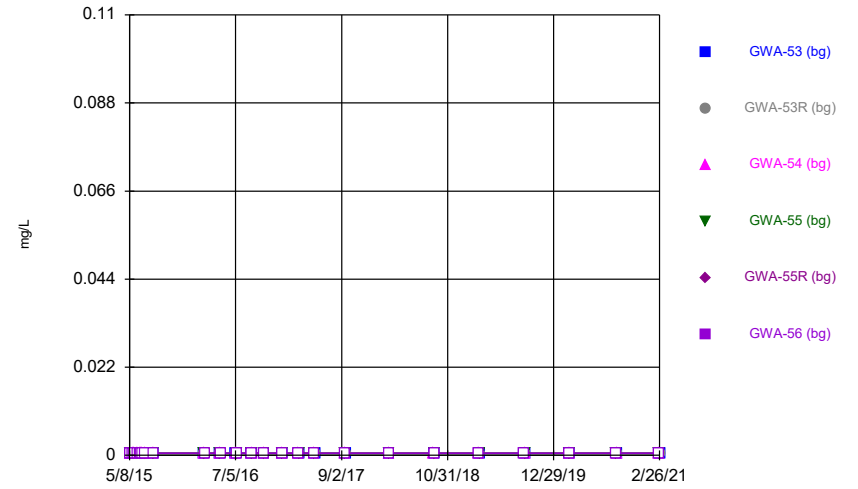
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



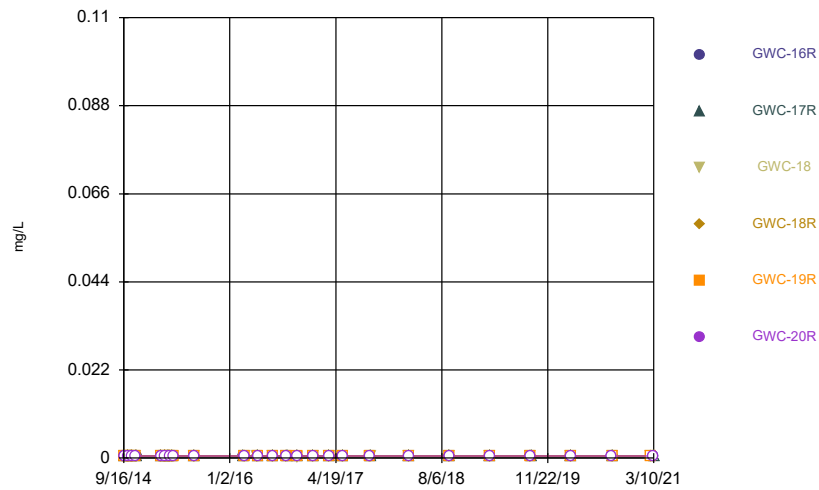
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



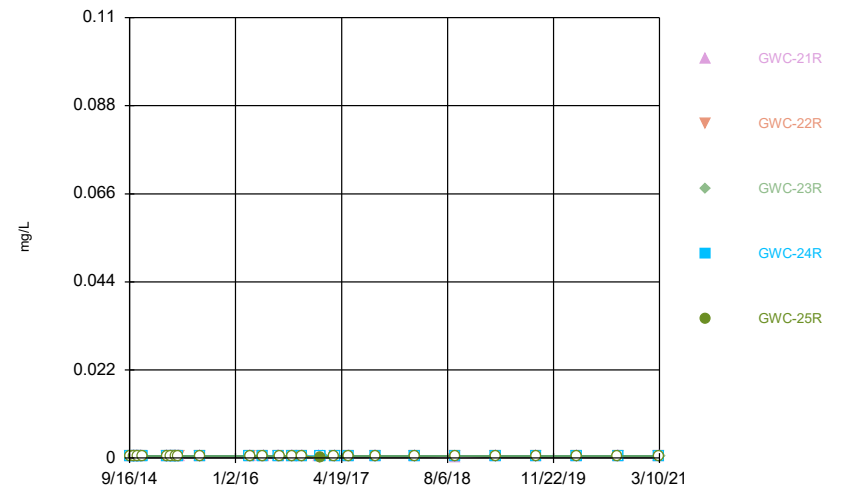
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



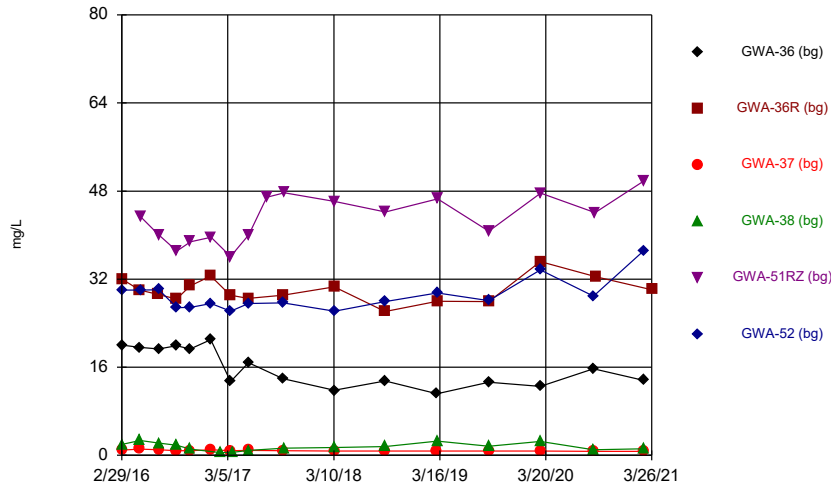
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



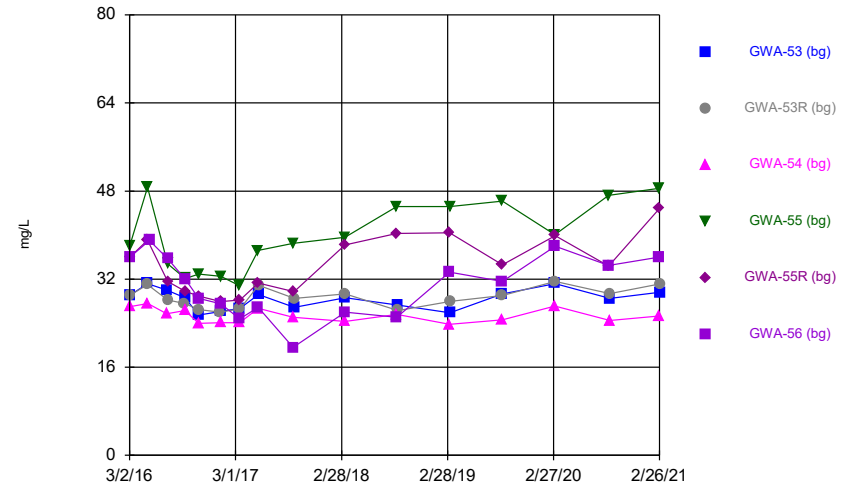
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



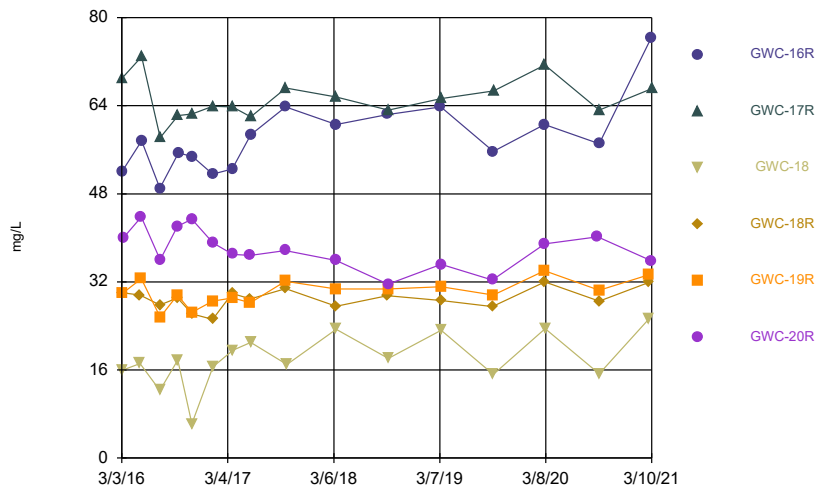
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



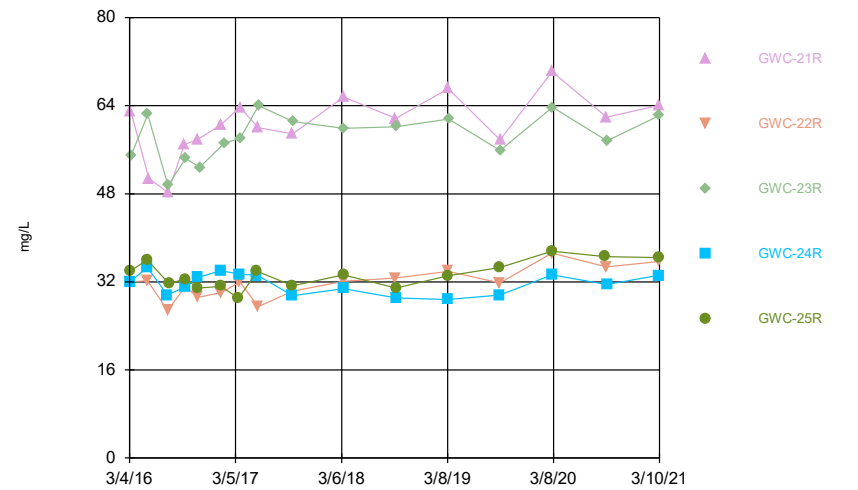
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



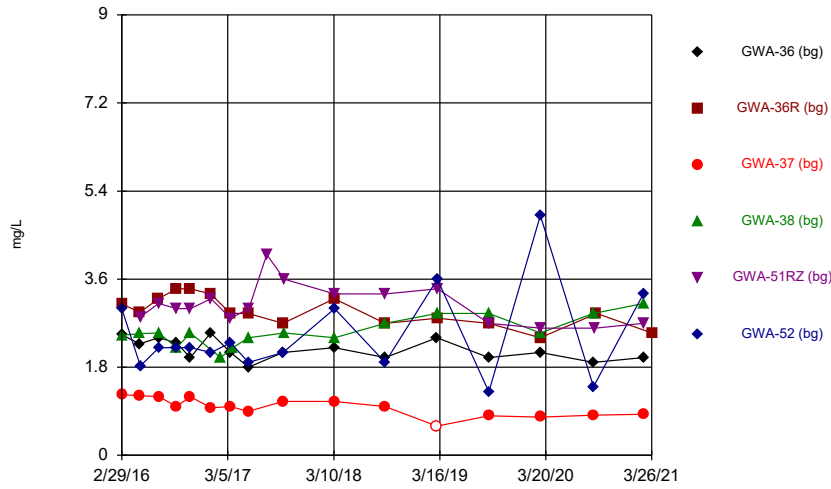
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

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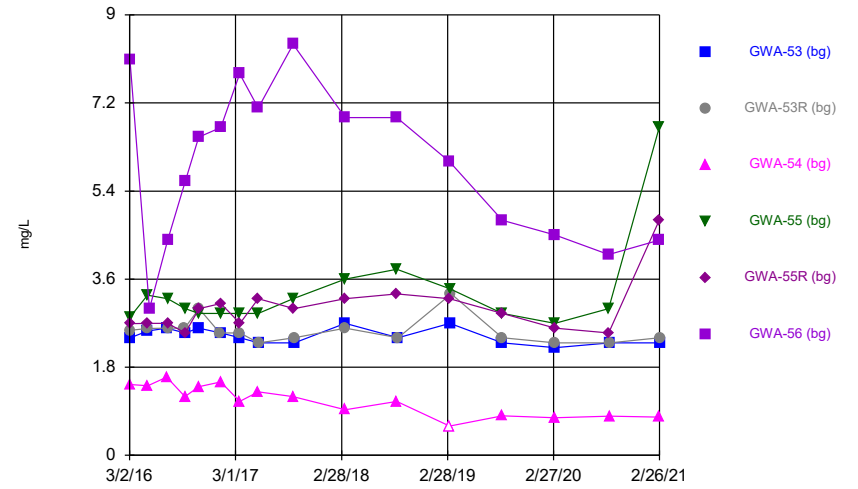
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



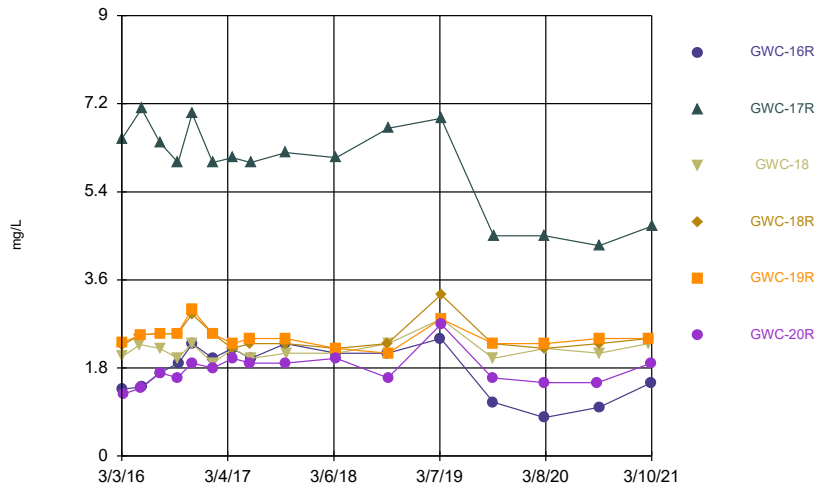
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

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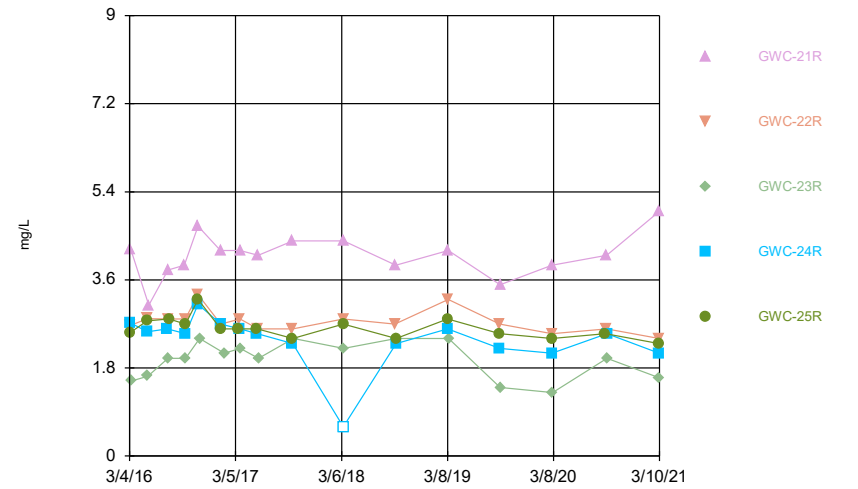
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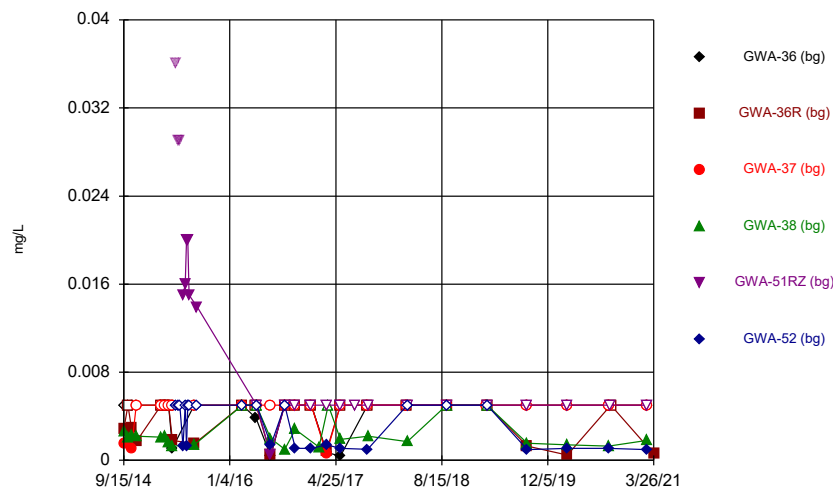
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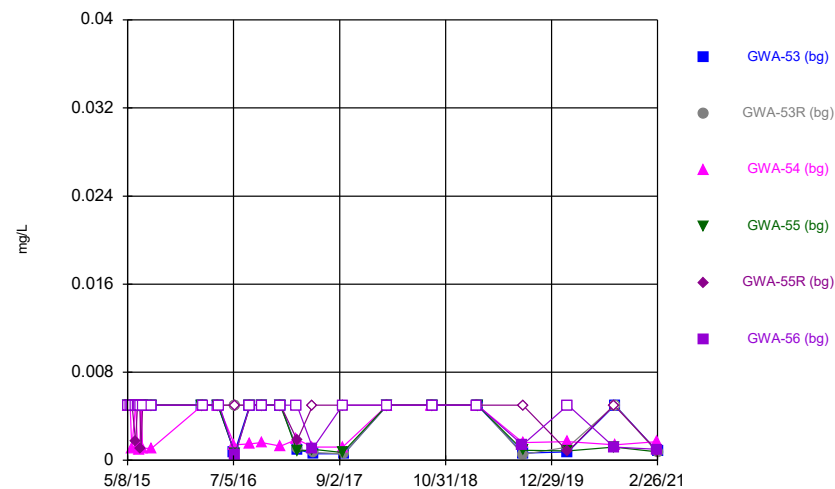
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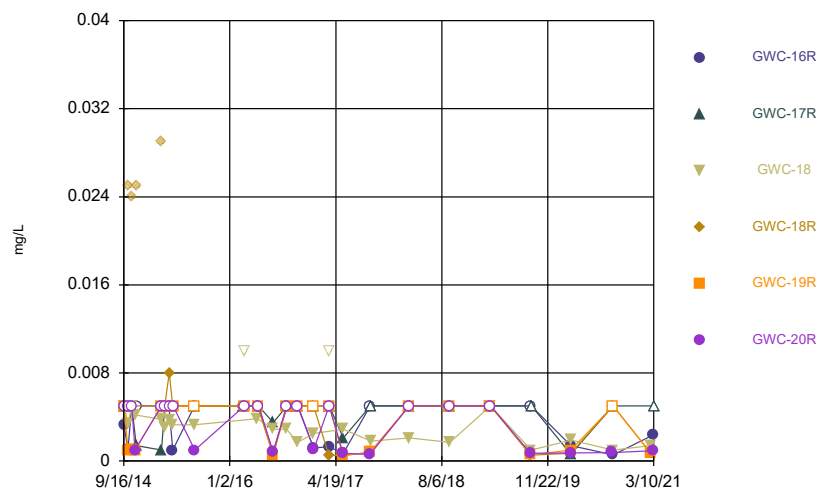
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



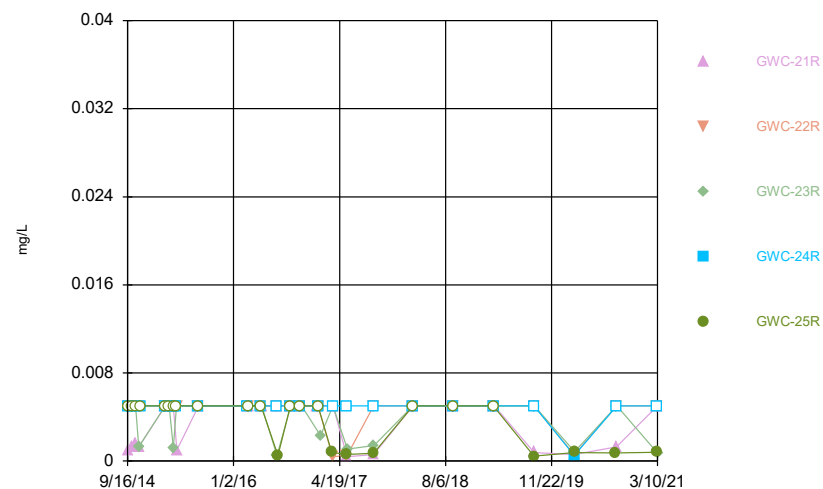
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

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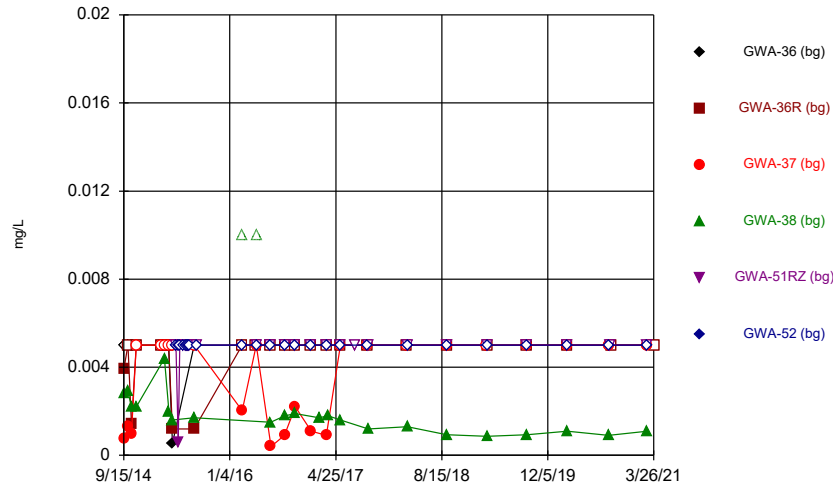
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

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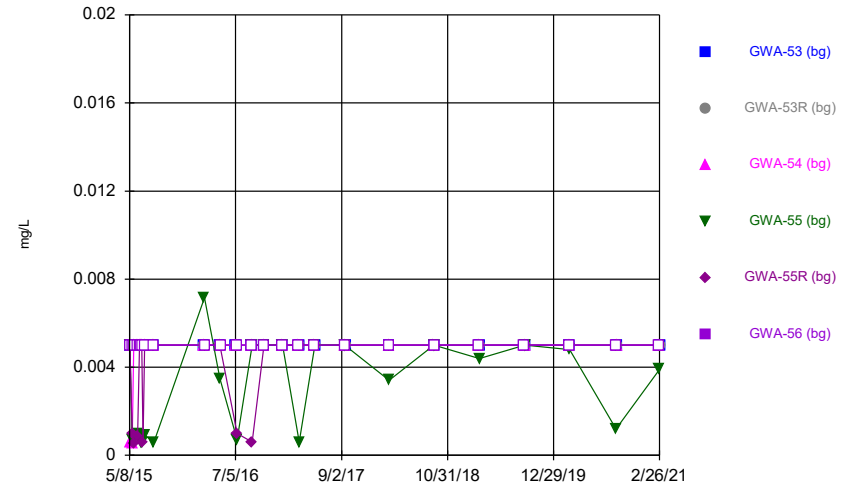
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Time Series



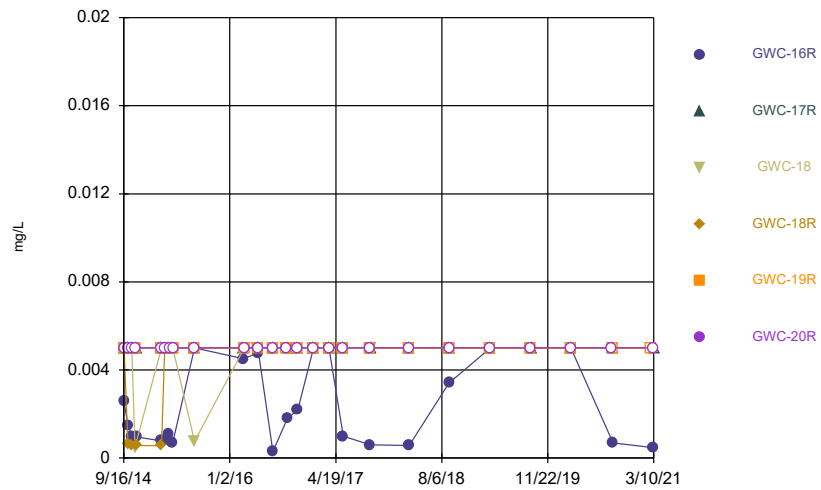
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Time Series



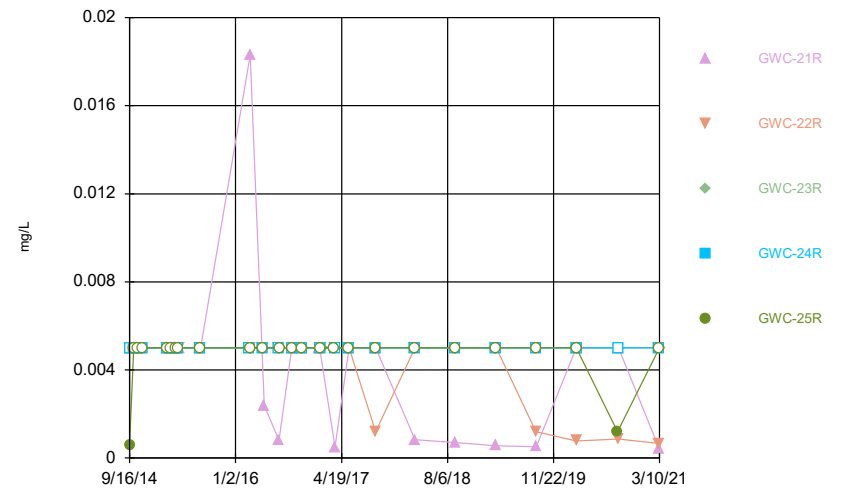
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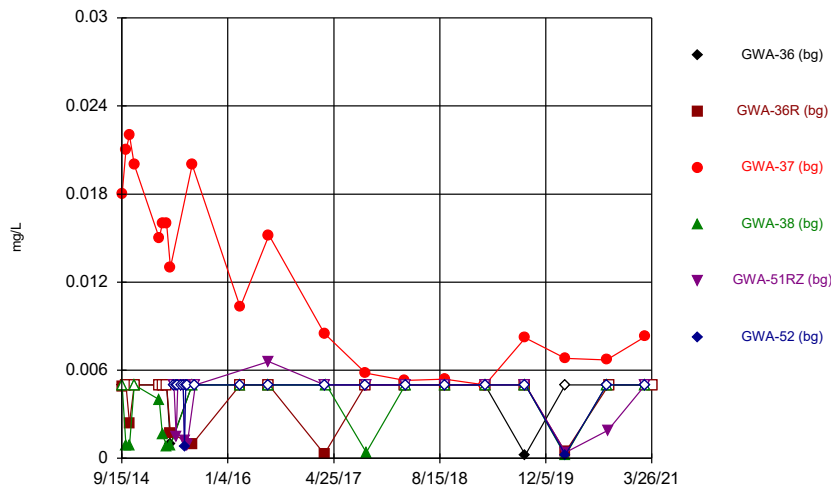
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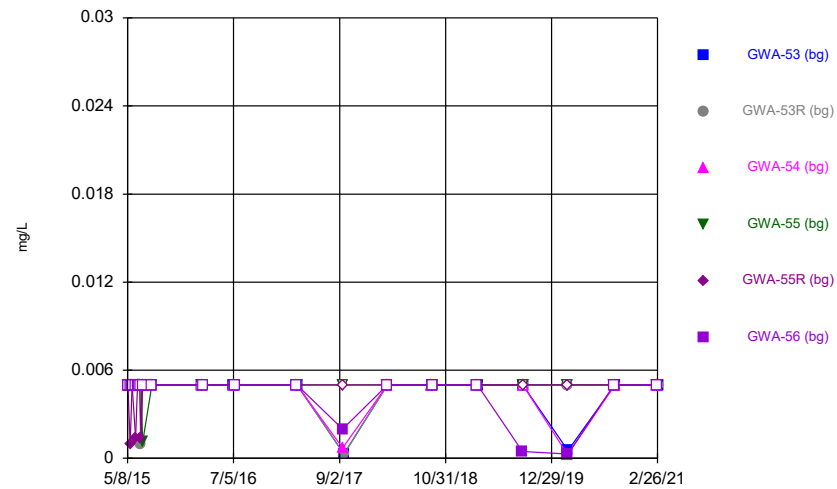
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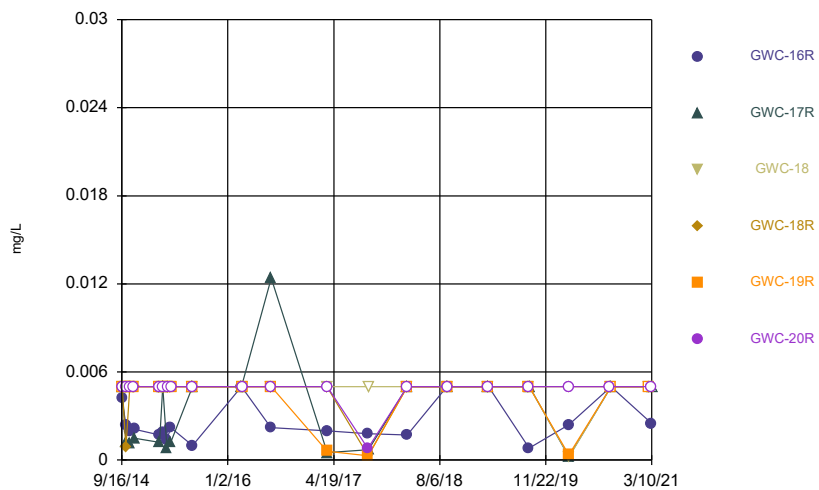
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Time Series



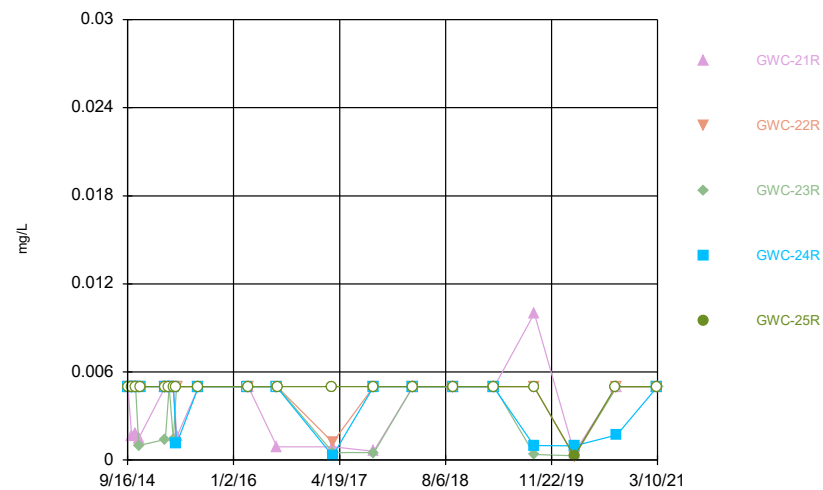
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Time Series



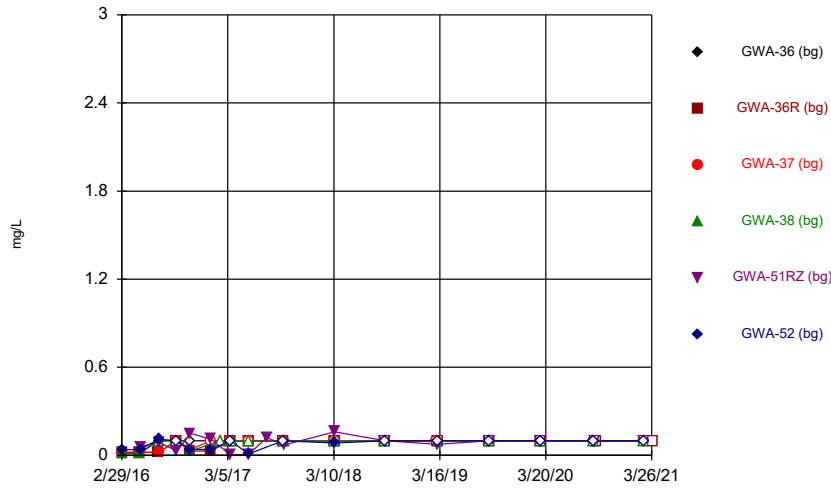
Constituent: Copper Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



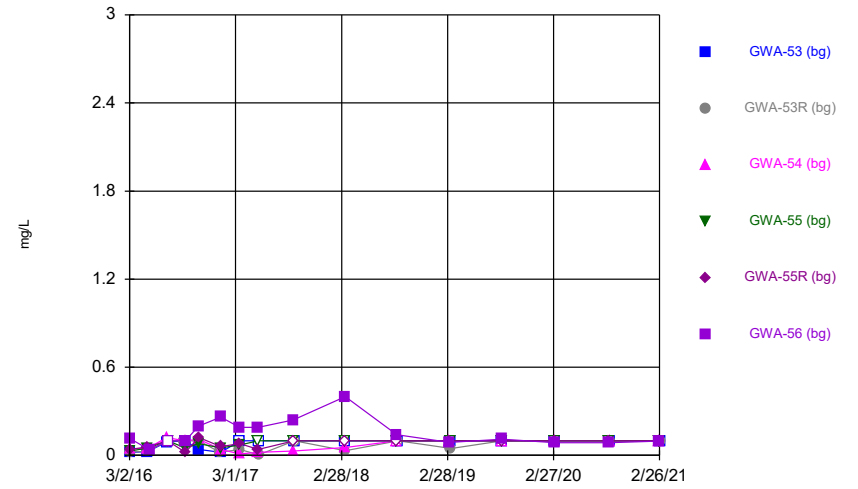
Constituent: Copper Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



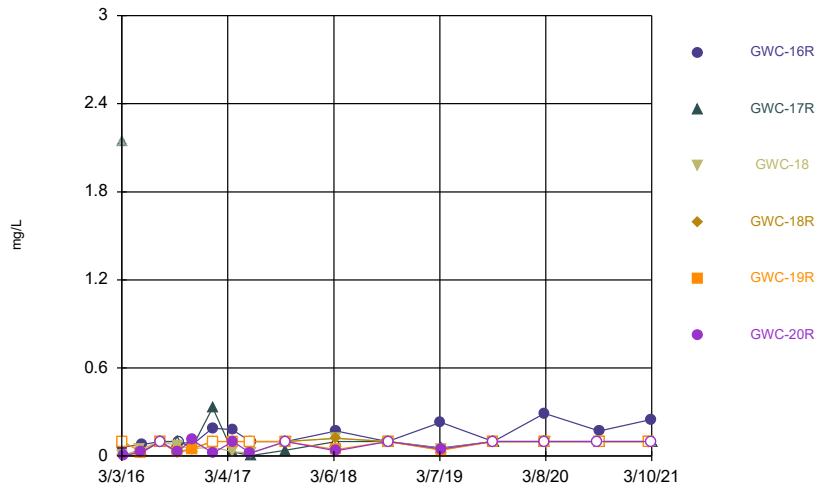
Constituent: Fluoride Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



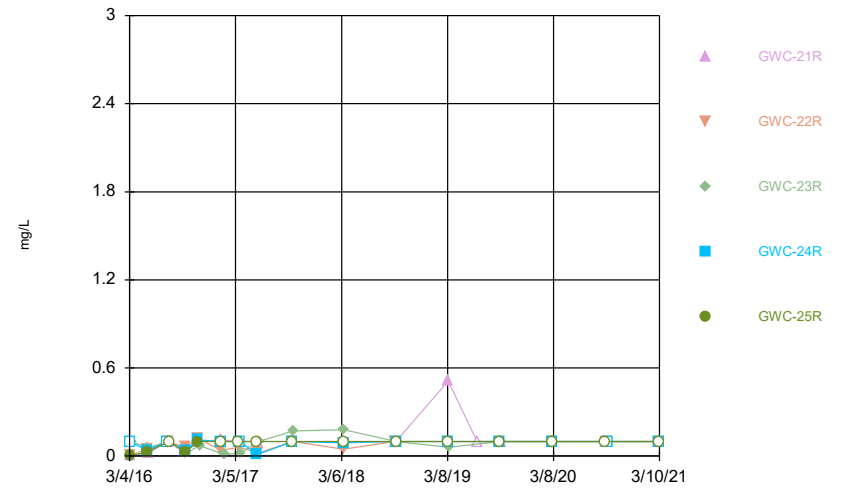
Constituent: Fluoride Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



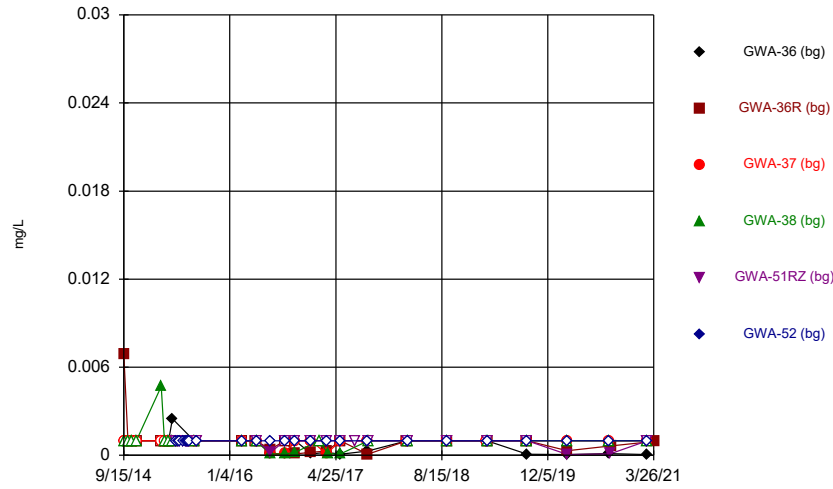
Constituent: Fluoride Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



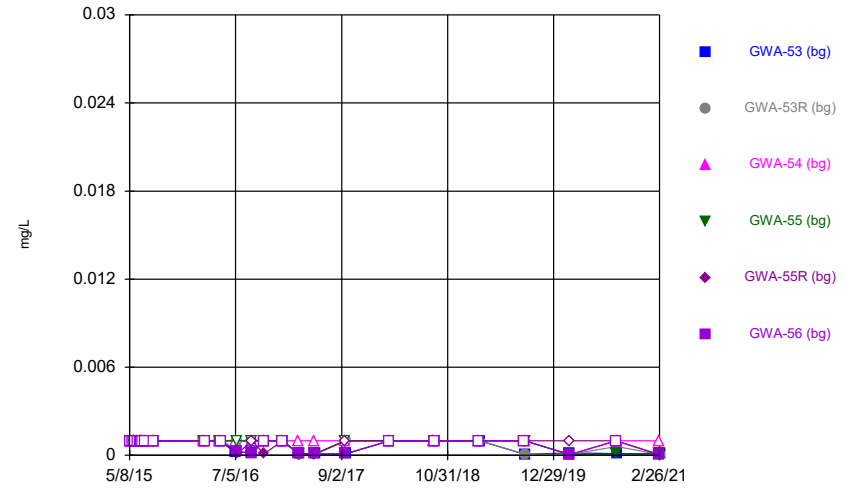
Constituent: Fluoride Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



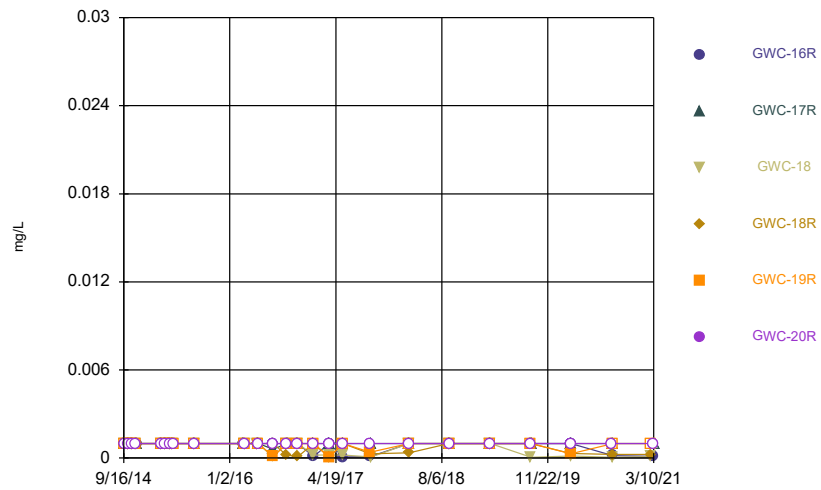
Constituent: Lead Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



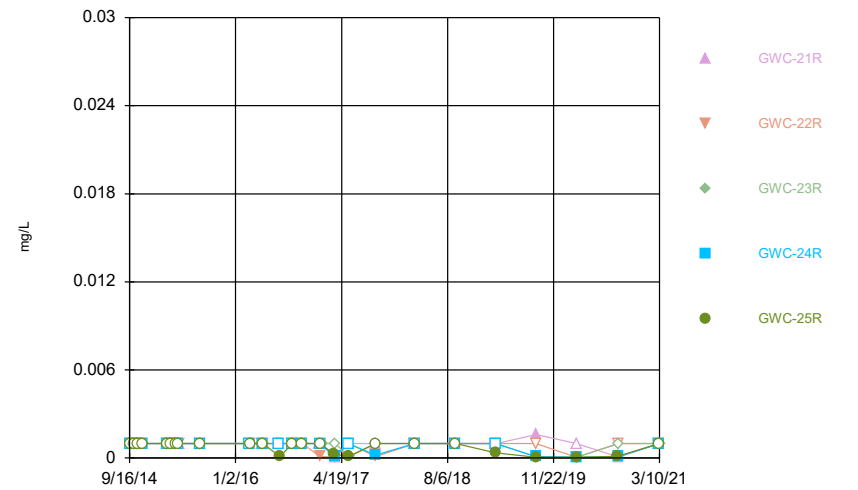
Constituent: Lead Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



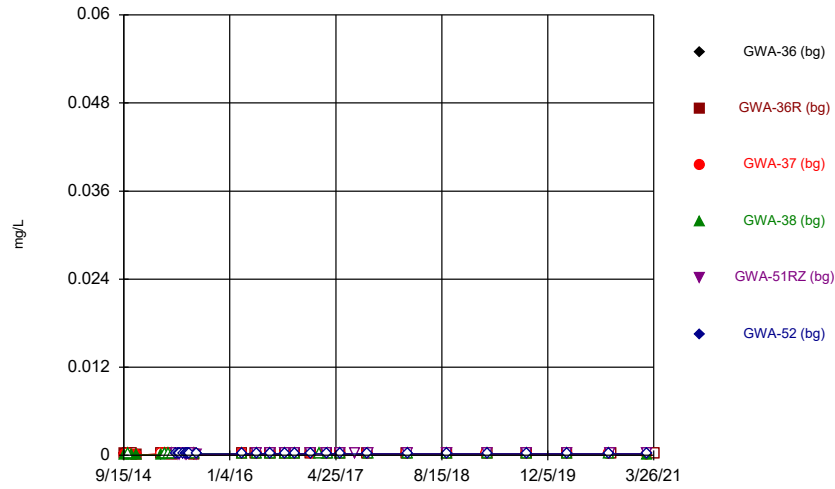
Constituent: Lead Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



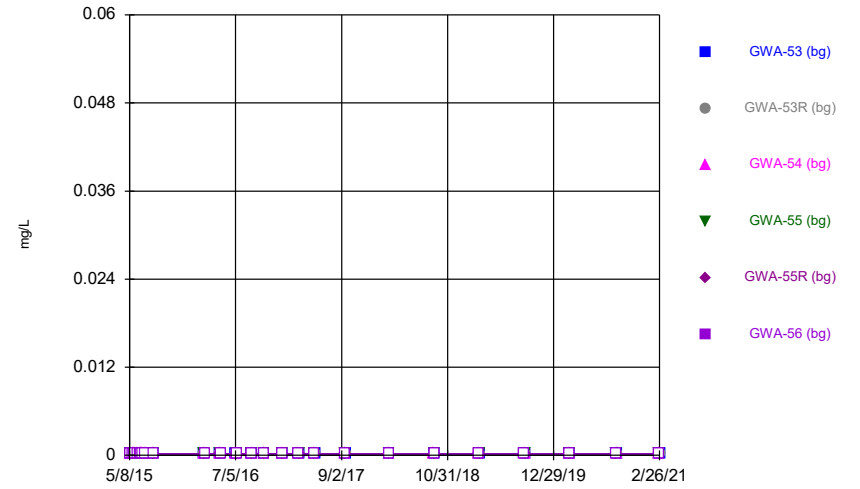
Constituent: Lead Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



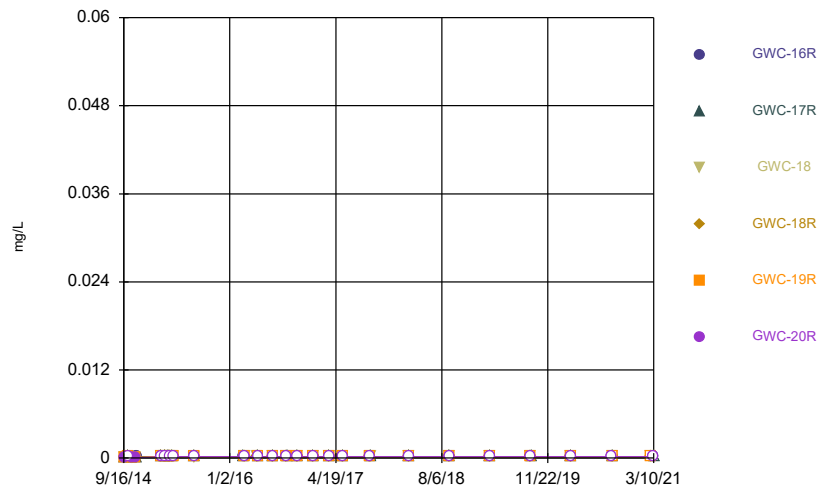
Constituent: Mercury Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



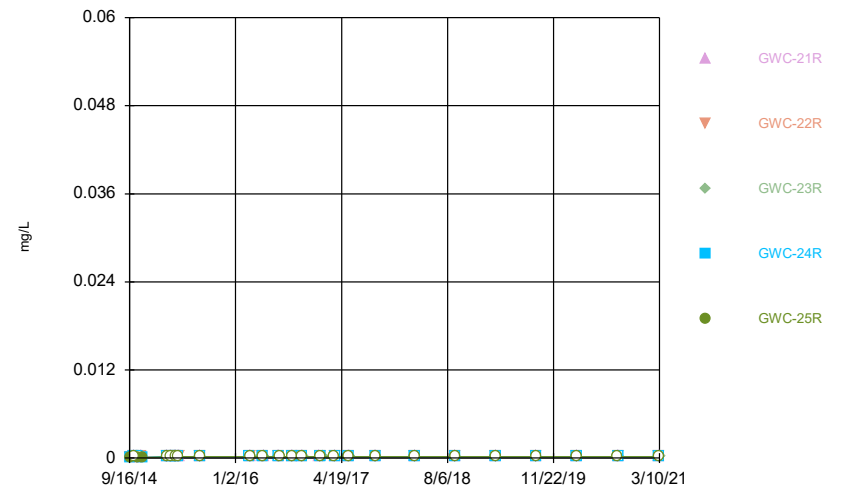
Constituent: Mercury Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



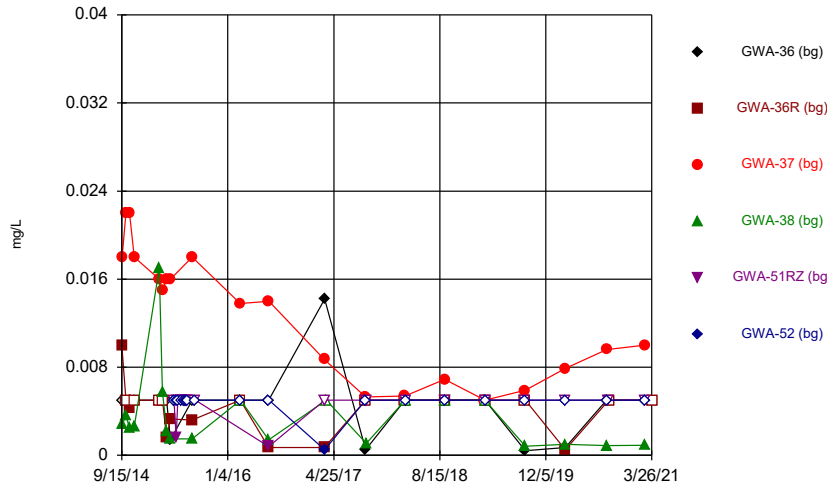
Constituent: Mercury Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



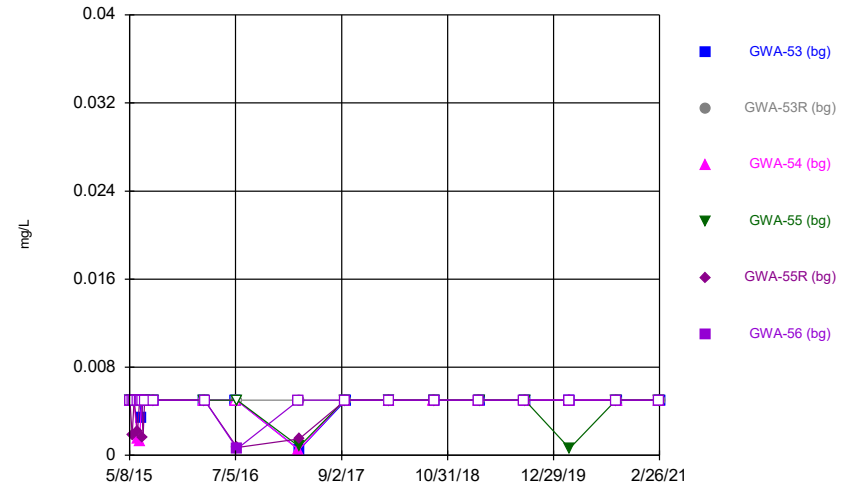
Constituent: Mercury Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



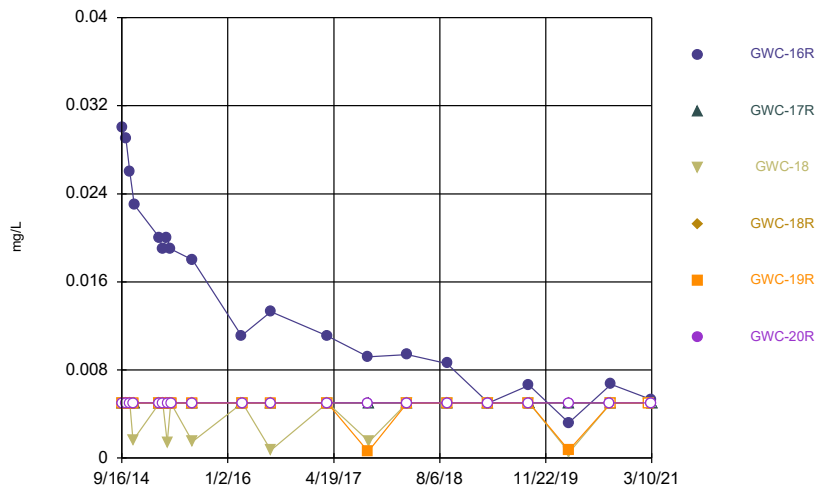
Constituent: Nickel Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



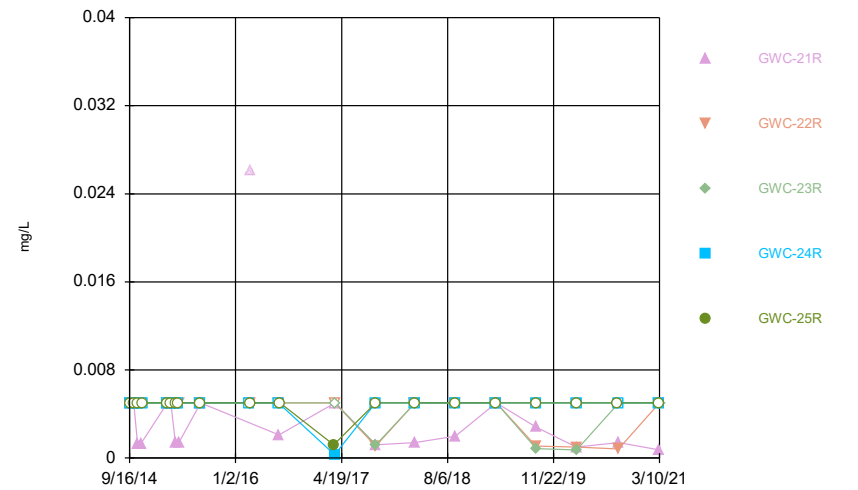
Constituent: Nickel Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



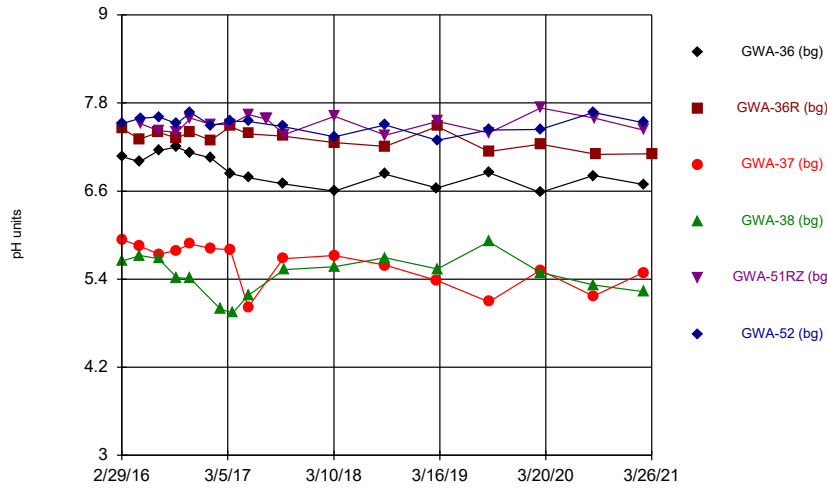
Constituent: Nickel Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



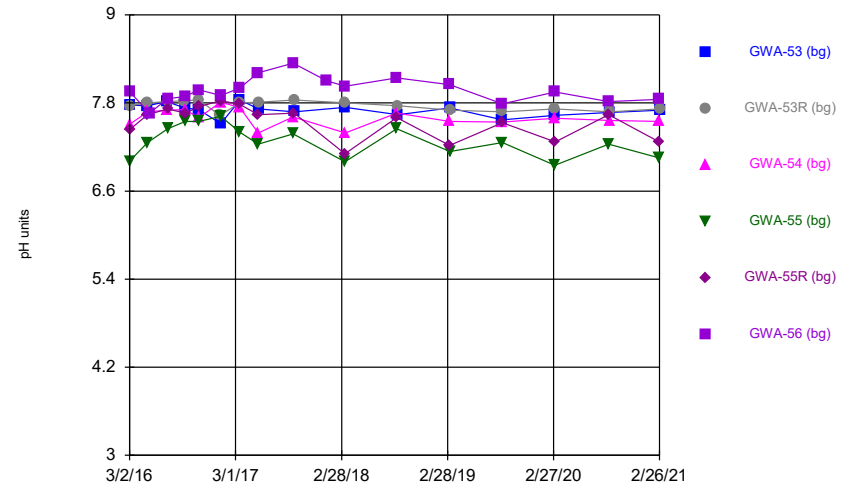
Constituent: Nickel Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



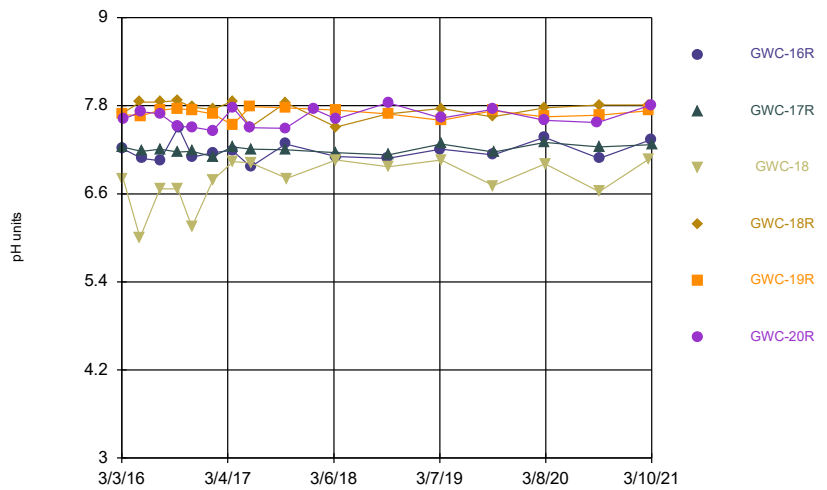
Constituent: pH Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



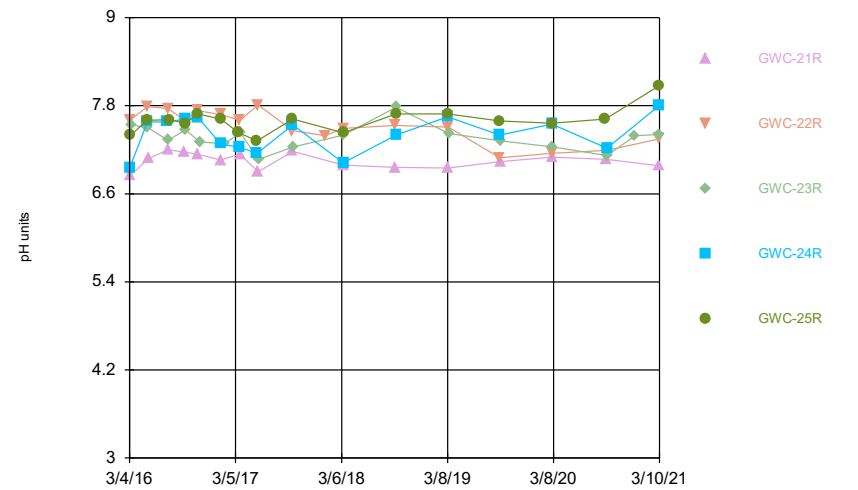
Constituent: pH Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



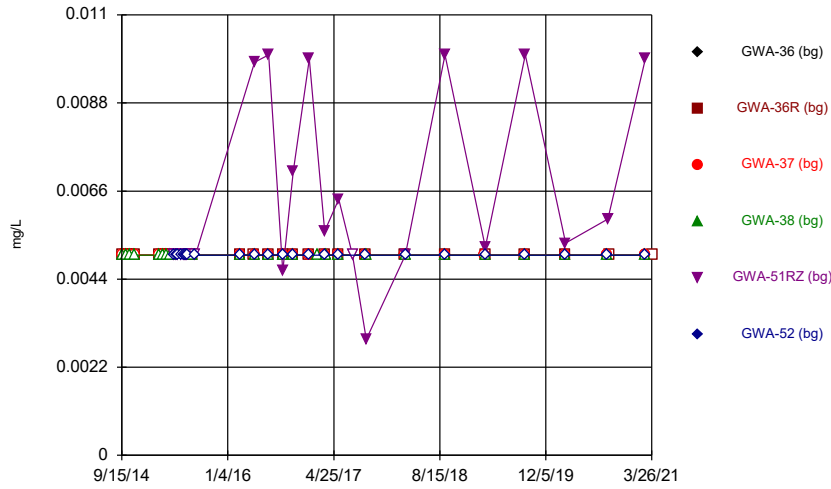
Constituent: pH Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



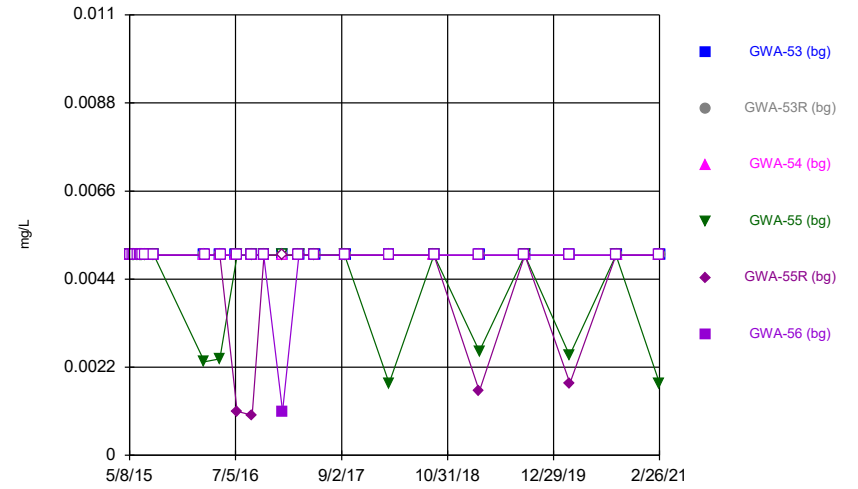
Constituent: pH Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



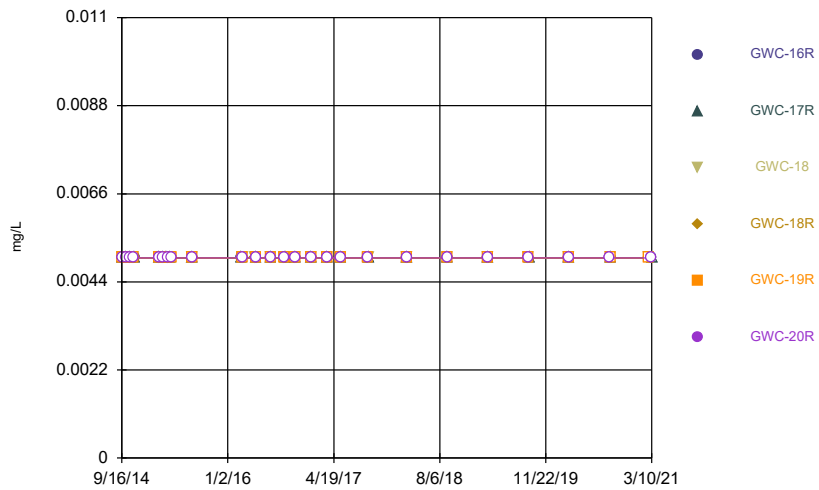
Constituent: Seleniun Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



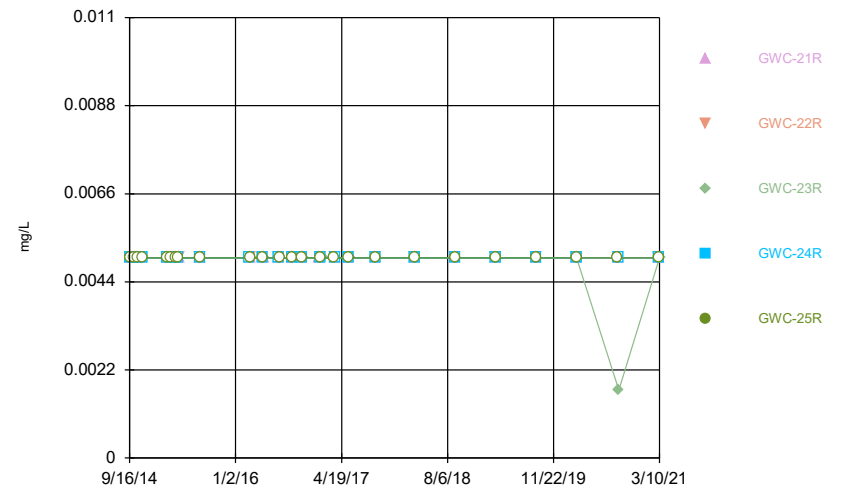
Constituent: Seleniun Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



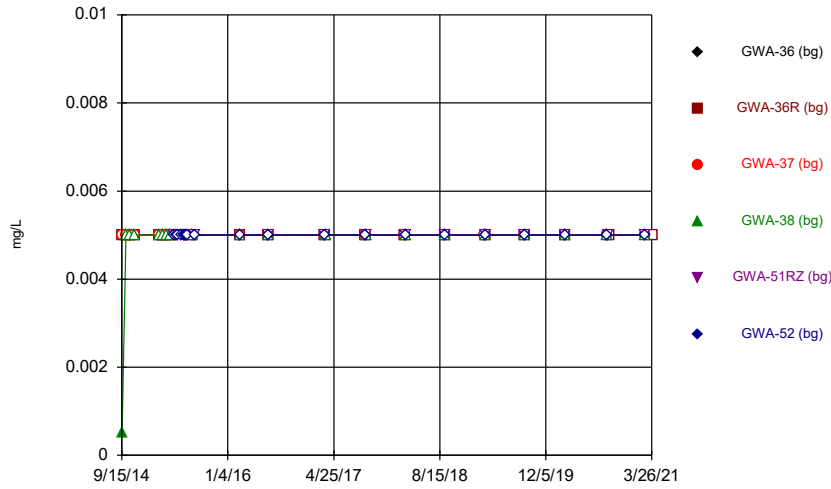
Constituent: Seleniun Analysis Run 5/5/2021 6:37 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



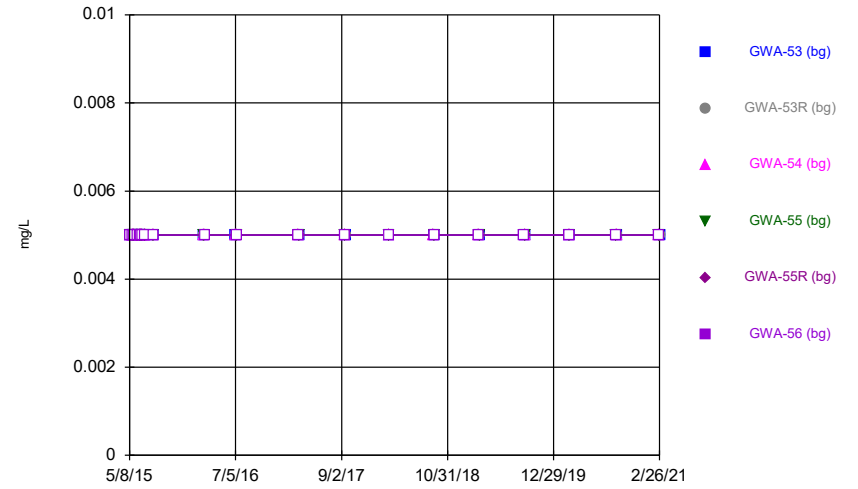
Constituent: Seleniun Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



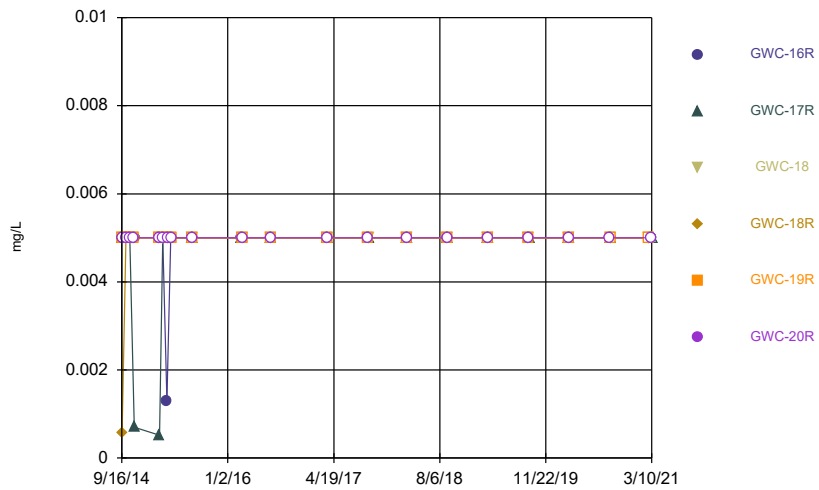
Constituent: Silver Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



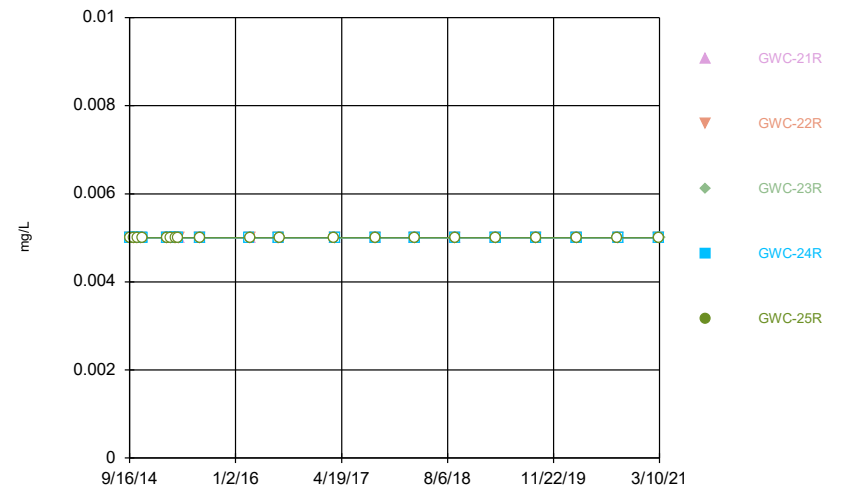
Constituent: Silver Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



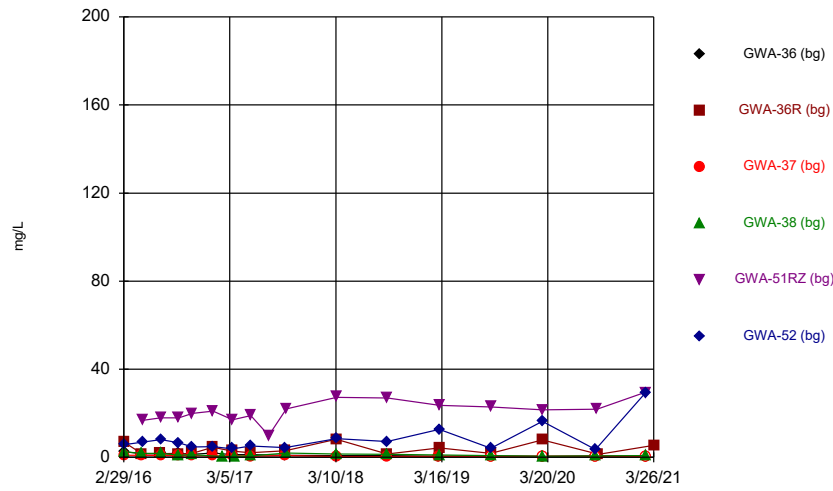
Constituent: Silver Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



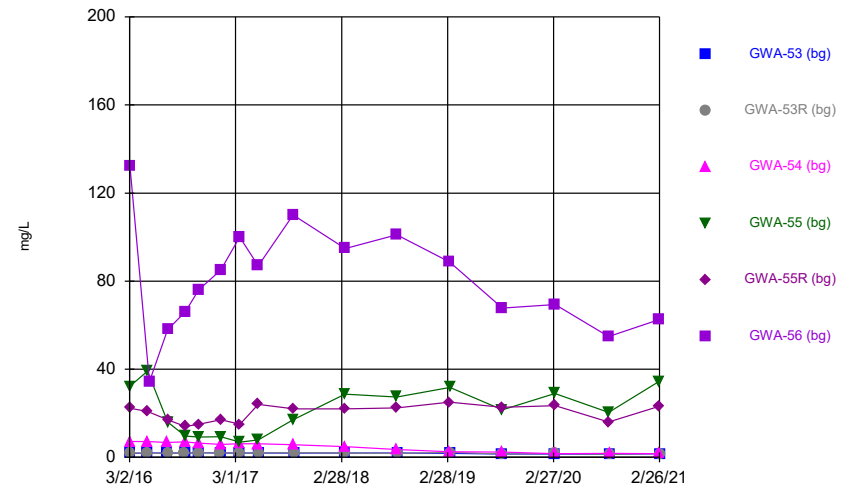
Constituent: Silver Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



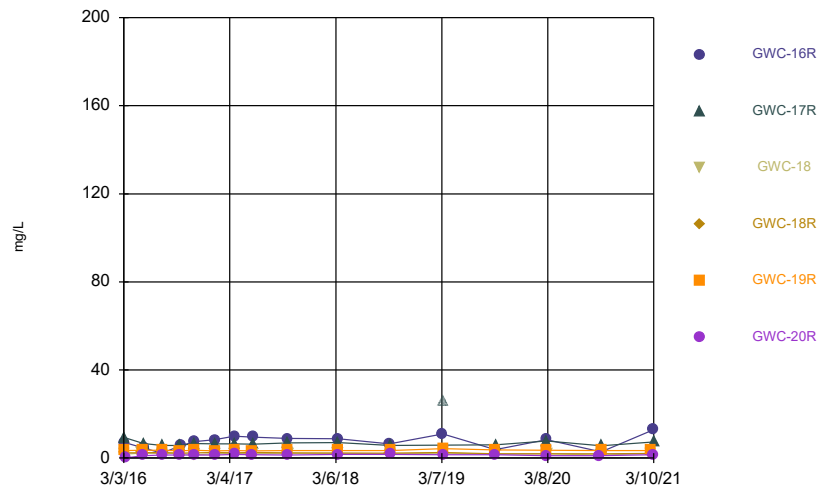
Constituent: Sulfate Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



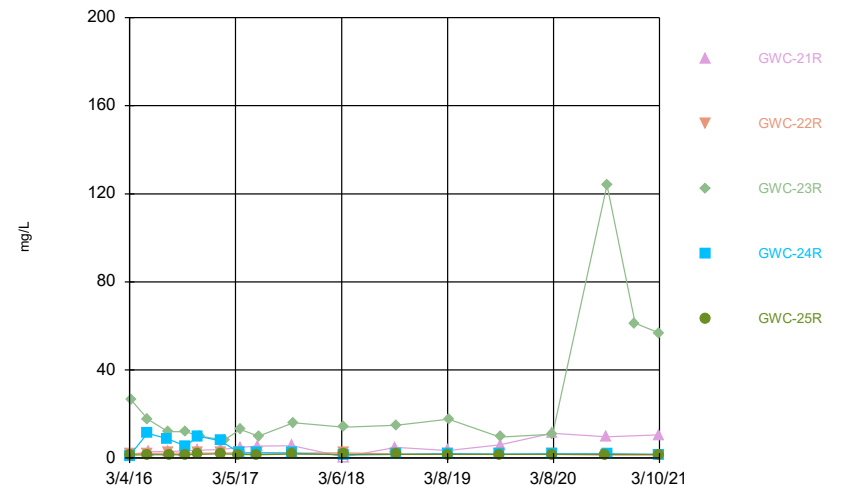
Constituent: Sulfate Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



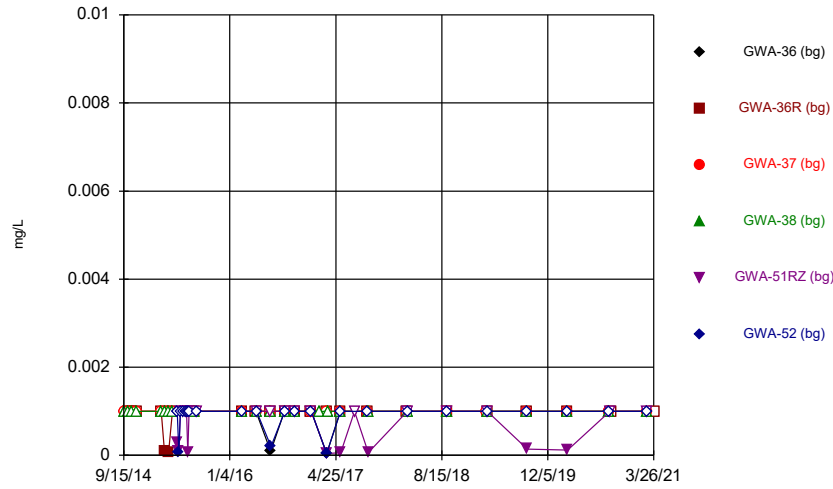
Constituent: Sulfate Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



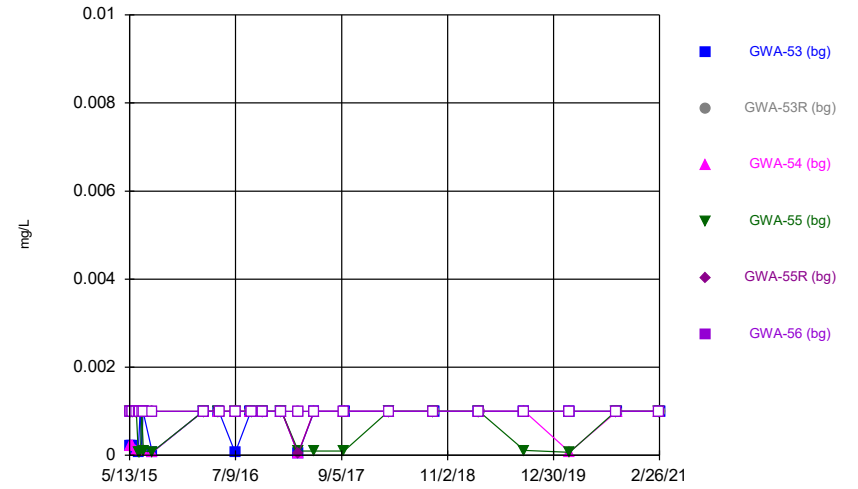
Constituent: Sulfate Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



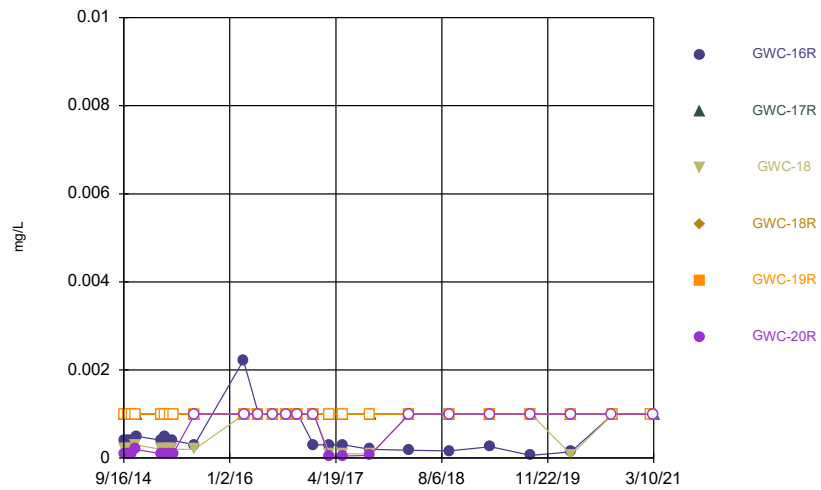
Constituent: Thallium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



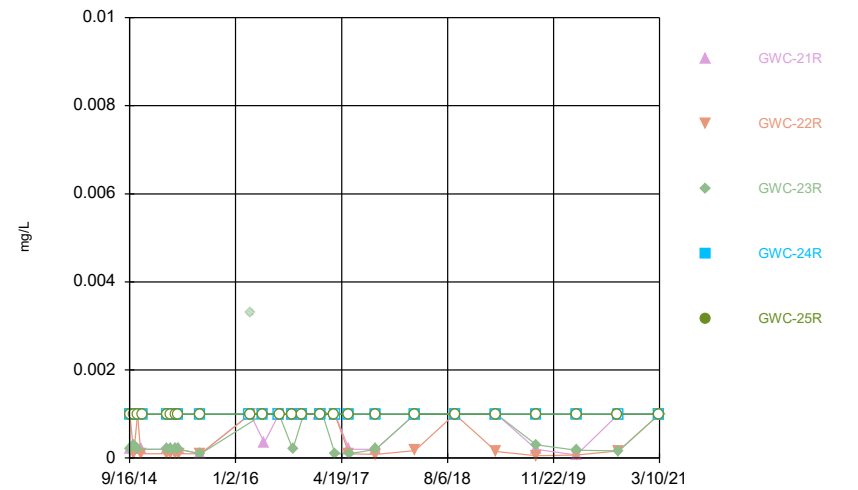
Constituent: Thallium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



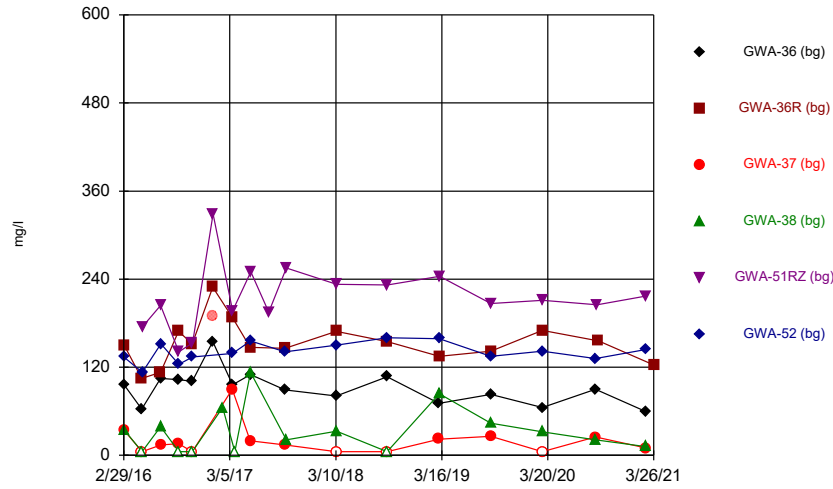
Constituent: Thallium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



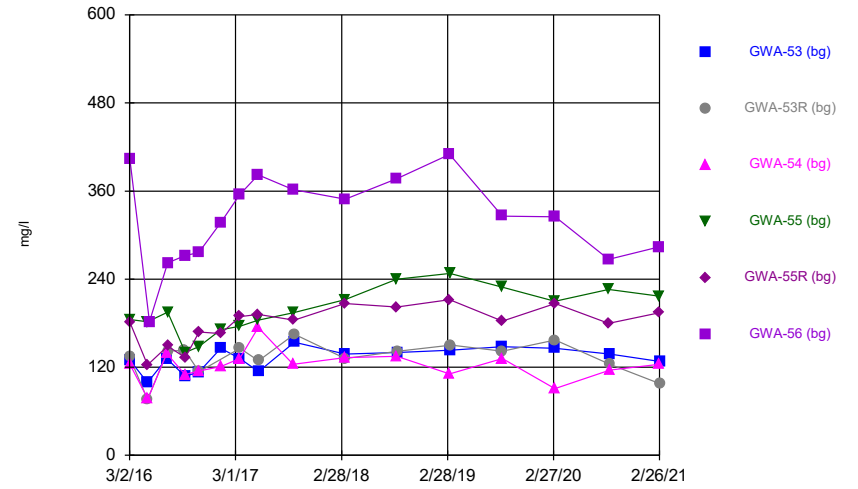
Constituent: Thallium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



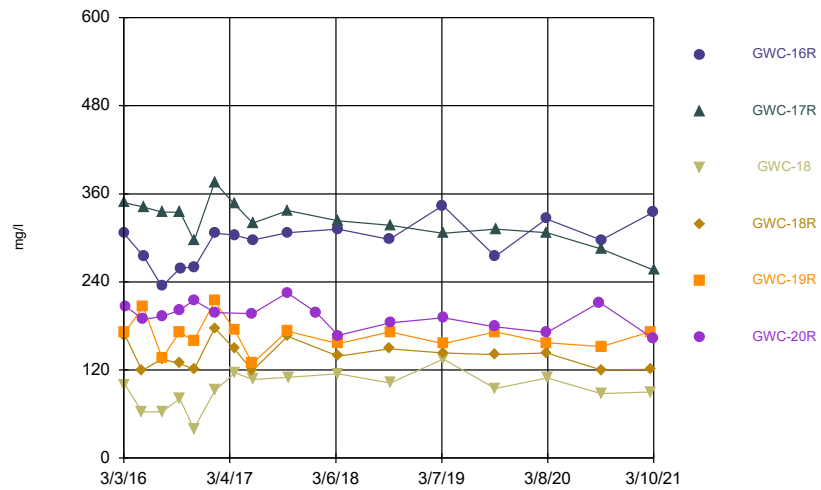
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:38 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



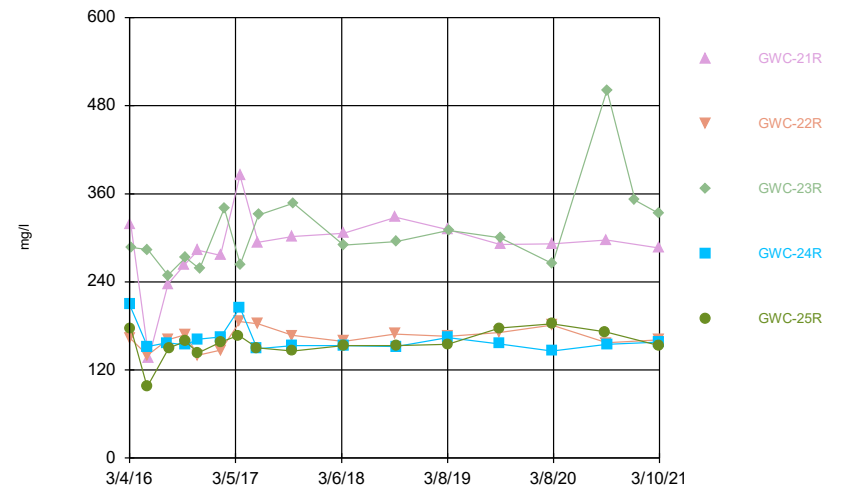
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:38 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



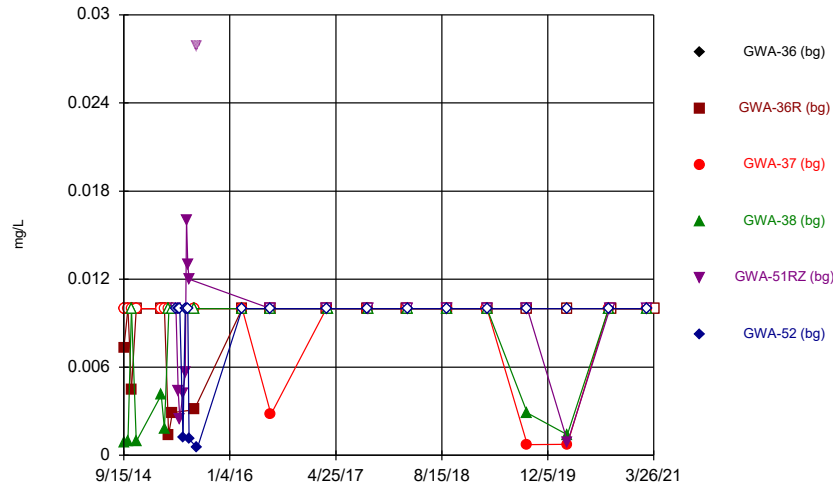
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:38 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



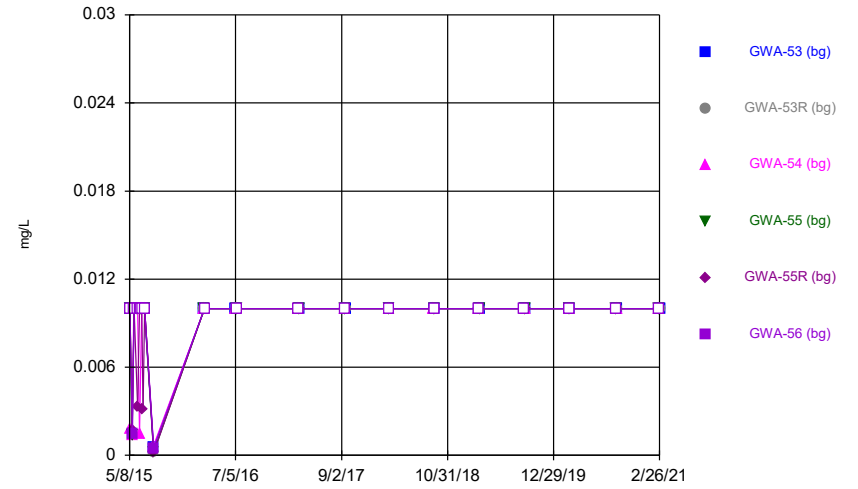
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:38 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



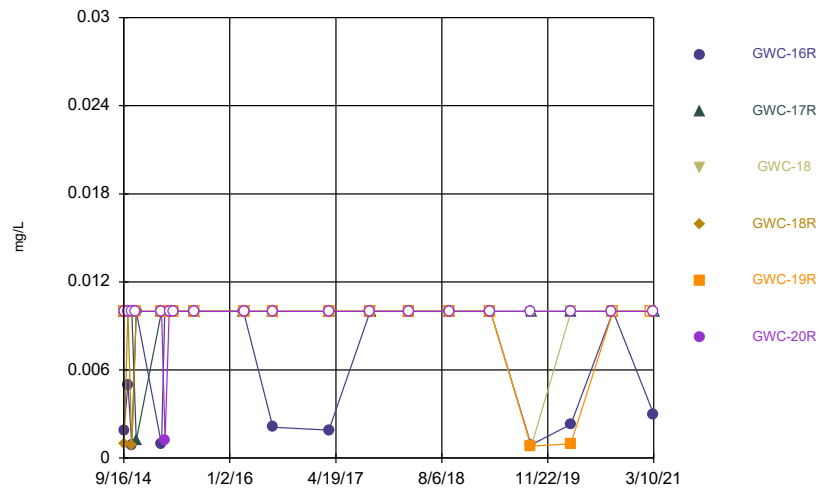
Constituent: Vanadium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



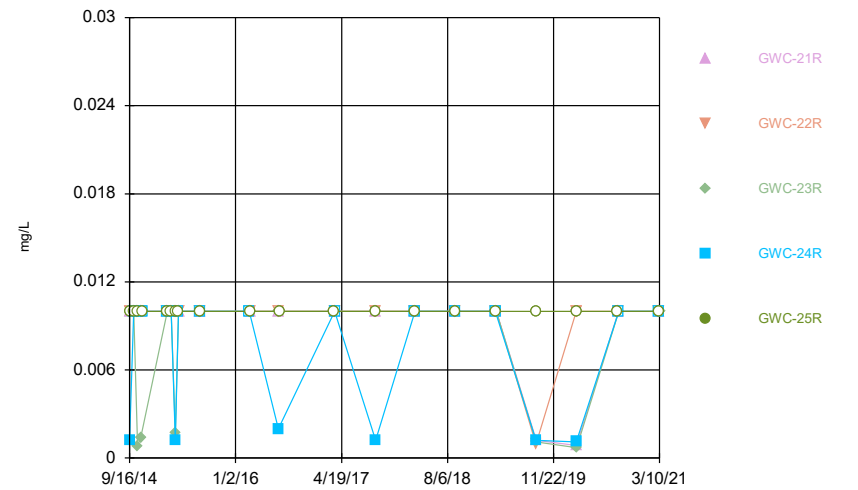
Constituent: Vanadium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



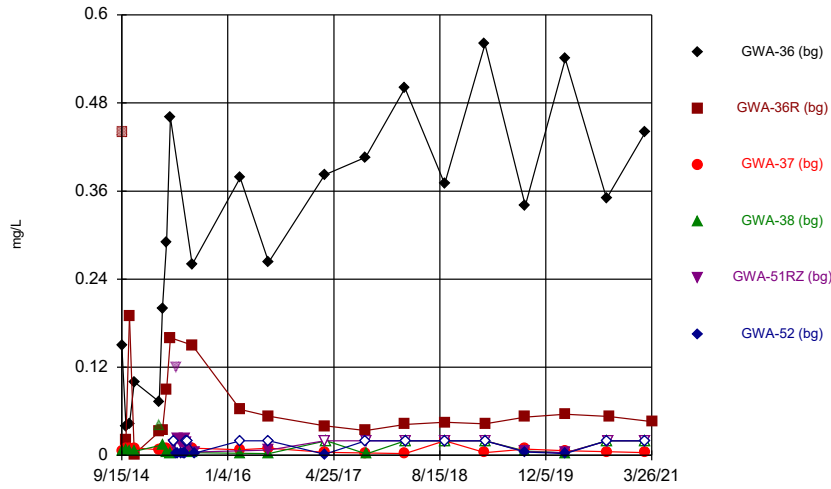
Constituent: Vanadium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



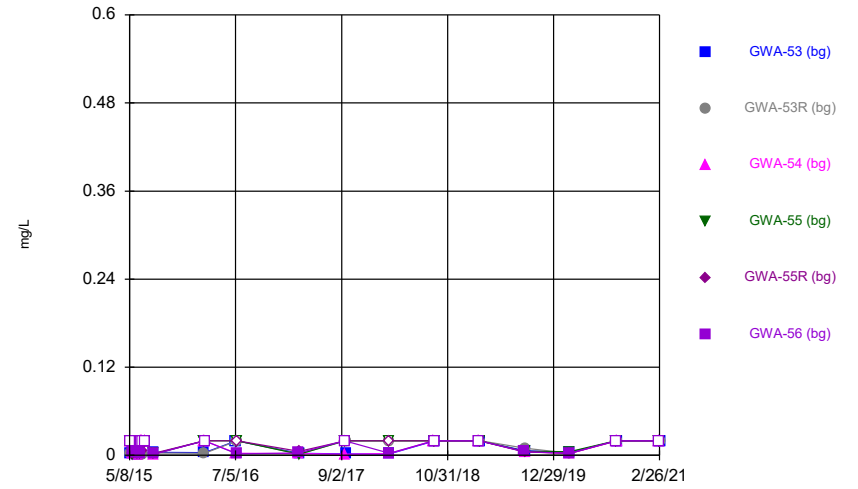
Constituent: Vanadium Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



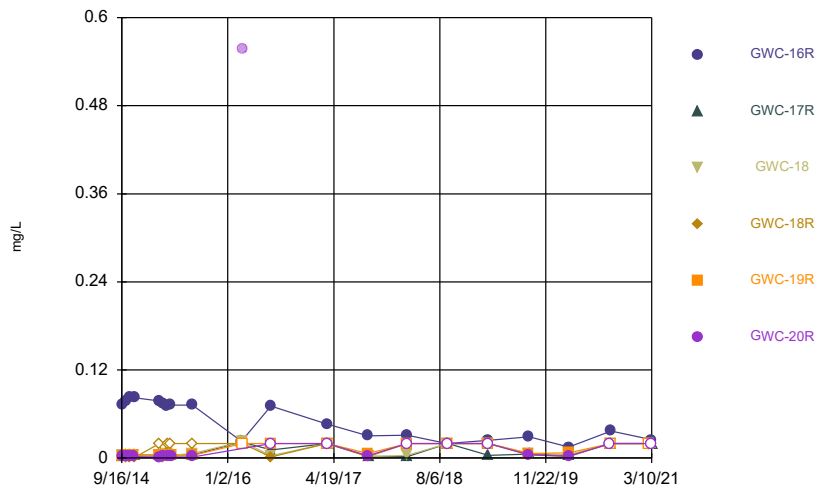
Constituent: Zinc Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



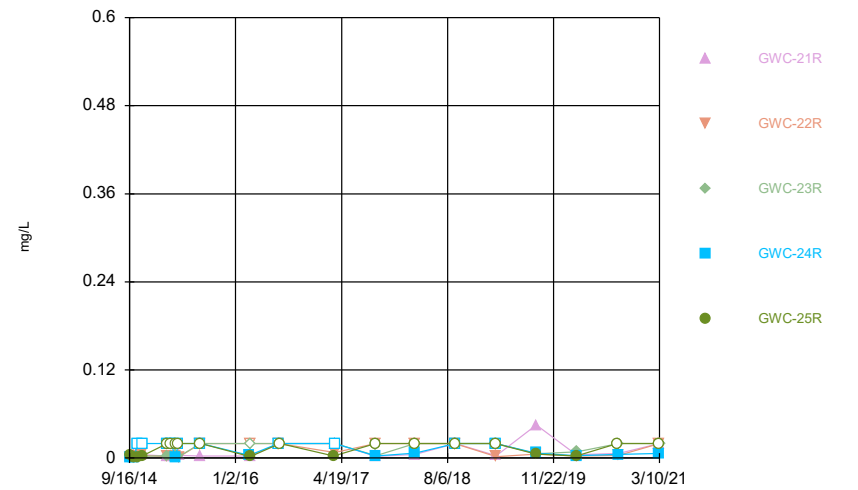
Constituent: Zinc Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



Constituent: Zinc Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series



Constituent: Zinc Analysis Run 5/5/2021 6:38 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	0.00094 (J)		0.0012 (J)	<0.003		<0.003
9/9/2020					0.00035 (J)	
9/14/2020		<0.003				
2/24/2021	0.00068 (J)		0.0012 (J)	<0.003		<0.003
2/25/2021					0.00061 (J)	
3/26/2021		0.00092 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				0.00065 (J)	<0.003	<0.003
9/8/2020	0.0017 (J)	0.00078 (J)	<0.003			
2/25/2021			<0.003	<0.003	<0.003	<0.003
2/26/2021	<0.003	0.0006 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)			
9/4/2020						<0.003
9/9/2020	0.015	<0.003	<0.003	<0.003	<0.003	
2/26/2021			<0.003	0.00059 (J)	<0.003	
3/9/2021	0.018					<0.003
3/10/2021		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					0.0013 (J)
9/8/2020	0.0041	<0.003			
9/9/2020			<0.003	0.00094 (J)	
3/9/2021	0.0024 (J)	<0.003		0.00035 (J)	<0.003
3/10/2021			<0.003		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)	
9/3/2020	<0.005		<0.005	<0.005		<0.005
9/9/2020					<0.005	
9/14/2020		<0.005				
2/24/2021	<0.005		<0.005	<0.005		<0.005
2/25/2021					<0.005	
3/26/2021		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				<0.005	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	<0.005	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.005
9/9/2020	0.0011 (J)	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	0.00094 (J)					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					<0.005
9/8/2020	0.0023 (J)	0.0025 (J)			
9/9/2020			<0.005	<0.005	
3/9/2021	0.0045 (J)	0.0018 (J)		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	0.014		0.0045 (J)	0.011		0.017
9/9/2020					0.017	
9/14/2020		0.03				
2/24/2021	0.016		0.0044 (J)	0.013		0.025
2/25/2021					0.018	
3/26/2021		0.02				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				0.022	0.032	0.033

Time Series

Constituent: Barium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/8/2020	0.012	0.013	0.035			
2/25/2021			0.034	0.028	0.034	0.032
2/26/2021	0.013	0.015				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						0.033
9/9/2020	0.051	0.018	0.016	0.014	0.014	
2/26/2021			0.017	0.015	0.016	
3/9/2021	0.058					0.027
3/10/2021		0.019				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					0.016
9/8/2020	0.015	0.054			
9/9/2020			0.036	0.024	
3/9/2021	0.014	0.045		0.021	0.016
3/10/2021			0.026		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			<0.0005	<0.0005		
10/3/2014	<0.0005	<0.0005	<0.0005	8.3E-05 (J)		
10/20/2014	<0.0005	0.0014	<0.0005	7.8E-05 (J)		
11/10/2014	<0.0005	<0.0005	<0.0005	8E-05 (J)		
3/2/2015	<0.0005	<0.0005	<0.0005	0.00034 (J)		
3/17/2015	0.0001 (J)	8.3E-05 (J)	<0.0005	0.00014 (J)		
4/5/2015	0.00012 (J)	0.00038 (J)	<0.0005			
4/6/2015				<0.0005		
4/21/2015	0.00033 (J)	0.0011 (J)				
4/22/2015			8.3E-05 (J)	7.8E-05 (J)		
5/8/2015					<0.0005	<0.0005
5/17/2015					0.00022 (J)	<0.0005
5/25/2015					<0.0005	<0.0005
6/8/2015					<0.0005	<0.0005
6/18/2015					<0.0005	<0.0005
6/24/2015					<0.0005	<0.0005
6/30/2015					<0.0005	<0.0005
7/6/2015					<0.0005	<0.0005
7/28/2015	0.00014 (J)	0.00092 (J)	<0.0005	<0.0005		
8/12/2015					<0.0005	<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		0.0002 (J)				
7/7/2016	0.0001 (J)			<0.0005	<0.0005 (D)	
7/8/2016			<0.0005			<0.0005
9/7/2016	0.0001 (J)	<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	0.0001 (J)	0.0001 (J)				
1/6/2017			<0.0005		<0.0005 (D)	<0.0005
2/9/2017				<0.0005		
3/14/2017		0.0001 (J)	<0.0005			
3/15/2017	0.0002 (J)				<0.0005 (D)	<0.0005
3/23/2017				<0.0005		
5/16/2017		<0.0005	<0.0005			
5/17/2017	0.0002 (J)			<0.0005		<0.0005
5/18/2017					<0.0005 (D)	
7/19/2017					<0.0005 (D)	
9/15/2017	0.0002 (J)	<0.0005	<0.0005			<0.0005
9/19/2017				<0.0005	<0.0005 (D)	
3/12/2018	0.00017 (J)	5.6E-05 (J)	<0.0005			
3/13/2018				<0.0005	<0.0005	<0.0005
9/6/2018	0.00015 (J)	<0.0005	<0.0005	<0.0005		<0.0005
9/7/2018					<0.0005	
3/6/2019	0.00029 (J)		<0.0005			
3/7/2019		6.8E-05 (J)		<0.0005		<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00016 (J)	<0.0005	<0.0005	<0.0005 (D)	<0.0005	<0.0005
3/2/2020	0.00024 (J)	0.00015 (J)	<0.0005	<0.0005		<0.0005
3/3/2020					<0.0005	
9/3/2020	0.0002 (J)		<0.0005	<0.0005		<0.0005
9/9/2020					<0.0005	
9/14/2020		0.00012 (J)				
2/24/2021	0.00022 (J)		<0.0005	<0.0005		<0.0005
2/25/2021					<0.0005	
3/26/2021		0.00019 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00011 (J)	
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	0.00025 (J)	<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	0.00014 (J)				
7/1/2015			<0.0005	<0.0005	0.00024 (J)	<0.0005
7/6/2015	<0.0005	<0.0005				
7/7/2015			<0.0005	0.00012 (J)	<0.0005	<0.0005
8/12/2015	<0.0005	<0.0005	<0.0005	<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	0.0001 (J)
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	5.7E-05 (J)			<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
9/4/2020				<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/8/2020	5.5E-05 (J)	<0.0005	<0.0005			
2/25/2021			<0.0005	<0.0005	<0.0005	<0.0005
2/26/2021	5.1E-05 (J)	<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.0005					
9/17/2014		<0.0005	<0.0005	7.8E-05 (J)	<0.0005	
9/18/2014						<0.0005
10/4/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/5/2014						<0.0005
10/21/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/22/2014						<0.0005
11/5/2014			9E-05 (J)		<0.0005	<0.0005
11/11/2014	<0.0005	<0.0005		<0.0005		
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	7.8E-05 (J)	<0.0005		
4/24/2015					<0.0005	8.3E-05 (J)
7/29/2015	<0.0005	<0.0005	<0.0005	<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					0.0001 (J)	
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	0.00011 (J)	6.5E-05 (J)	<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: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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				0.00013 (J)	
3/5/2020		<0.0005		0.00013 (J)		<0.0005
3/6/2020			<0.0005			
9/4/2020						<0.0005
9/9/2020	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005	
2/26/2021			<0.0005	0.0002 (J)	<0.0005	
3/9/2021	<0.0005					<0.0005
3/10/2021		<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.0005	<0.0005
9/18/2014	<0.0005	<0.0005	<0.0005		
10/4/2014				<0.0005	<0.0005
10/5/2014	<0.0005	<0.0005	<0.0005		
10/22/2014	<0.0005	<0.0005	<0.0005		
10/23/2014				<0.0005	<0.0005
11/5/2014	<0.0005	<0.0005	<0.0005		
11/10/2014				<0.0005	<0.0005
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: Beryllium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					<0.0005
9/8/2020	<0.0005	<0.0005			
9/9/2020			<0.0005	<0.0005	
3/9/2021	<0.0005	<0.0005		<0.0005	<0.0005
3/10/2021			<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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)	
9/3/2020	<0.04		<0.04	<0.04		<0.04
9/9/2020					0.0054 (J)	
9/14/2020		0.0065 (J)				
2/24/2021	0.0062 (J)		<0.04	<0.04		0.0099 (J)
2/25/2021					0.0052 (J)	
3/26/2021		0.019 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020				0.0053 (J)	<0.04	0.015 (J)
9/8/2020	0.0072 (J)	<0.04	<0.04			
2/25/2021			<0.04	0.0075 (J)	0.0055 (J)	0.017 (J)
2/26/2021	<0.04	<0.04				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.04
9/9/2020	0.012 (J)	<0.04	<0.04	<0.04	<0.04	
2/26/2021			<0.04	<0.04	<0.04	
3/9/2021	0.028 (J)					<0.04
3/10/2021		<0.04				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					<0.04
9/8/2020	0.014 (J)	0.0084 (J)			
9/9/2020			<0.04	<0.04	
3/9/2021	0.015 (J)	0.0058 (J)		<0.04	<0.04
3/10/2021			<0.04		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			<0.0005	<0.0005		
10/3/2014	<0.0005	<0.0005	<0.0005	<0.0005		
10/20/2014	<0.0005	0.00036 (J)	<0.0005	<0.0005		
11/10/2014	0.00033 (J)	<0.0005	0.00026 (J)	<0.0005		
3/2/2015	<0.0005	<0.0005	<0.0005	0.00035 (J)		
3/17/2015	0.00057 (J)	<0.0005	<0.0005	<0.0005		
4/5/2015	0.00068 (J)	<0.0005	<0.0005			
4/6/2015				<0.0005		
4/21/2015	0.0011 (J)	0.00044 (J)				
4/22/2015			<0.0005	<0.0005		
5/8/2015					<0.0005	<0.0005
5/17/2015					0.00029 (J)	<0.0005
5/25/2015					<0.0005	<0.0005
6/8/2015					<0.0005	<0.0005
6/18/2015					<0.0005	<0.0005
6/24/2015					<0.0005	<0.0005
6/30/2015					<0.0005	<0.0005
7/6/2015					<0.0005	<0.0005
7/28/2015	0.00073 (J)	0.00027 (J)	<0.0005	<0.0005		
8/12/2015					<0.0005	<0.0005
2/29/2016						<0.0005
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			<0.0005	<0.0005		
5/4/2016					<0.0005 (D)	<0.0005
7/6/2016		0.0002 (J)				
7/7/2016	0.0007 (J)			<0.0005	<0.0005 (D)	
7/8/2016			<0.0005			<0.0005
9/7/2016	0.0007 (J)	0.0002 (J)	<0.0005			
9/8/2016				0.0001 (J)	<0.0005 (D)	<0.0005
10/25/2016	0.0007 (J)	0.0002 (J)	<0.0005	<0.0005		
10/26/2016					<0.0005 (D)	<0.0005
1/5/2017	0.0008 (J)	<0.0005				
1/6/2017			<0.0005		<0.0005 (D)	<0.0005
2/9/2017				0.0001 (J)		
3/14/2017		<0.0005	<0.0005			
3/15/2017	0.0013				0.00055 (D)	<0.0005
3/23/2017				0.0001 (J)		
5/16/2017		0.0001 (J)	<0.0005			
5/17/2017	0.001			0.0001 (J)		<0.0005
5/18/2017					<0.0005 (D)	
7/19/2017					<0.0005 (D)	
9/15/2017	0.0011	<0.0005	<0.0005			<0.0005
9/19/2017				<0.0005	<0.0005 (D)	
3/12/2018	0.0011	0.00013 (J)	<0.0005			
3/13/2018				<0.0005	<0.0005	<0.0005
9/6/2018	0.00086 (J)	0.00011 (J)	<0.0005	<0.0005		<0.0005
9/7/2018					<0.0005	
3/6/2019	0.0013		9.3E-05 (J)			
3/7/2019		0.00017 (J)		<0.0005		<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00088 (J)	0.00016 (J)	<0.0005	<0.0005 (D)	<0.0005	<0.0005
3/2/2020	0.0012 (J)	0.00018 (J)	<0.0005	<0.0005		<0.0005
3/3/2020					<0.0005	
9/3/2020	0.00089 (J)		<0.0005	<0.0005		<0.0005
9/9/2020					<0.0005	
9/14/2020		0.00016 (J)				
2/24/2021	0.0012		<0.0005	<0.0005		<0.0005
2/25/2021					<0.0005	
3/26/2021		0.00015 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				<0.0005	<0.0005	<0.0005
9/8/2020	<0.0005	<0.0005	<0.0005			
2/25/2021			<0.0005	<0.0005	<0.0005	<0.0005
2/26/2021	<0.0005	<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.0005					
9/17/2014		<0.0005	<0.0005	<0.0005	<0.0005	
9/18/2014						<0.0005
10/4/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/5/2014						<0.0005
10/21/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/22/2014						<0.0005
11/5/2014			<0.0005		<0.0005	<0.0005
11/11/2014	<0.0005	<0.0005		<0.0005		
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	<0.0005	<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			8E-05 (J)		<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: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.0005
9/9/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/26/2021			<0.0005	<0.0005	<0.0005	
3/9/2021	<0.0005					<0.0005
3/10/2021		<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.0005	<0.0005
9/18/2014	<0.0005	<0.0005	<0.0005		
10/4/2014				<0.0005	<0.0005
10/5/2014	<0.0005	<0.0005	<0.0005		
10/22/2014	<0.0005	<0.0005	<0.0005		
10/23/2014				<0.0005	<0.0005
11/5/2014	<0.0005	<0.0005	<0.0005		
11/10/2014				<0.0005	<0.0005
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		8E-05 (J)		<0.0005	0.0001 (J)
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	0.00021 (J)				
9/11/2018			<0.0005	<0.0005	<0.0005
3/8/2019				<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					<0.0005
9/8/2020	<0.0005	<0.0005			
9/9/2020			<0.0005	<0.0005	
3/9/2021	<0.0005	<0.0005		<0.0005	<0.0005
3/10/2021			<0.0005		

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	15.7		0.73 (J)	1		28.9
9/9/2020					44.1	
9/14/2020		32.4				
2/24/2021	13.6		0.71 (J)	1.2		37.1
2/25/2021					49.8	
3/26/2021		30.1				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				47.2	34.4	34.5
9/8/2020	28.5	29.4	24.5			
2/25/2021			25.3	48.5	44.8	36
2/26/2021	29.6	31.1				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						40.2
9/9/2020	57.1	63.2	15.3	28.5	30.5	
2/26/2021			25.2	31.9	33.3	
3/9/2021	76.4					35.8
3/10/2021		67.1				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					36.6
9/8/2020	61.9	34.7			
9/9/2020			57.6	31.5	
3/9/2021	64.1	35.7		33.2	36.4
3/10/2021			62.2		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	1.9		0.82 (J)	2.9		1.4
9/9/2020					2.6	
9/14/2020		2.9				
2/24/2021	2		0.84 (J)	3.1		3.3
2/25/2021					2.7	
3/26/2021		2.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				3	2.5	4.1
9/8/2020	2.3	2.3	0.8 (J)			
2/25/2021			0.78 (J)	6.7	4.8	4.4
2/26/2021	2.3	2.4				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						1.5
9/9/2020	1 (J)	4.3	2.1	2.3	2.4	
2/26/2021			2.3	2.4	2.4	
3/9/2021	1.5					1.9
3/10/2021		4.7				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					2.5
9/8/2020	4.1	2.6			
9/9/2020			2	2.5	
3/9/2021	5	2.4		2.1	2.3
3/10/2021			1.6		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0028				
9/16/2014			0.0015	0.0026		
10/3/2014	<0.005	<0.005	0.0015	0.0021		
10/20/2014	<0.005	0.0029	0.0011 (J)	0.0023		
11/10/2014	<0.005	0.0017	<0.005	0.0022		
3/2/2015	<0.005	<0.005	<0.005	0.0021		
3/17/2015	<0.005	<0.005	<0.005	0.0022		
4/5/2015	<0.005	<0.005	<0.005			
4/6/2015				0.0016		
4/21/2015	0.0011 (J)	0.0018				
4/22/2015			<0.005	0.0013		
5/8/2015					0.036 (o)	<0.005
5/17/2015					0.029 (o)	<0.005
5/25/2015					0.029 (o)	<0.005
6/8/2015					0.015	0.0013
6/18/2015					0.016	<0.005
6/24/2015					0.02	0.0013
6/30/2015					0.02	<0.005
7/6/2015					0.015	<0.005
7/28/2015	<0.005	0.0015	<0.005	0.0014		
8/12/2015					0.0139	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	<0.005			
3/2/2016				<0.005		
5/2/2016	0.00385 (J)	<0.005				
5/3/2016			<0.005	<0.005		
5/4/2016					<0.005 (D)	<0.005
7/6/2016		0.0005 (J)				
7/7/2016	0.0004 (J)			0.002 (J)	0.0005 (JD)	
7/8/2016			<0.005			0.0014 (J)
9/7/2016	<0.005	<0.005	<0.005			
9/8/2016				0.001 (J)	<0.005 (D)	<0.005
10/25/2016	<0.005	<0.005	<0.005	0.0028 (J)		
10/26/2016					<0.005 (D)	0.0011 (J)
1/5/2017	<0.005	<0.005				
1/6/2017			<0.005		<0.005 (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)				<0.005 (D)	0.0014 (J)
3/23/2017				<0.005		
5/16/2017		<0.005	<0.005			
5/17/2017	0.0004 (J)			0.0019 (J)		0.0011 (J)
5/18/2017					<0.005 (D)	
7/19/2017					<0.005 (D)	
9/15/2017	<0.005	<0.005	<0.005			0.001 (J)
9/19/2017				0.0022 (J)	<0.005 (D)	
3/12/2018	<0.005	<0.005	<0.005			
3/13/2018				0.0017 (J)	<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: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0013 (J)	<0.005	0.00155 (JD)	<0.005	0.00096 (J)
3/2/2020	<0.005	0.00047 (J)	<0.005	0.0014 (J)		0.0011 (J)
3/3/2020					<0.005	
9/3/2020	<0.005		<0.005	0.0013 (J)		0.0011 (J)
9/9/2020					<0.005	
9/14/2020		<0.005				
2/24/2021	<0.005		<0.005	0.0018 (J)		0.00097 (J)
2/25/2021					<0.005	
3/26/2021		0.0006 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0011 (J)			
5/26/2015				<0.005	<0.005	<0.005
6/8/2015	<0.005	<0.005				
6/9/2015			<0.005	<0.005	0.0017	<0.005
6/17/2015	<0.005		0.0014	<0.005	<0.005	<0.005
6/18/2015		<0.005				
6/24/2015	<0.005	<0.005				
6/25/2015			0.001 (J)	<0.005	<0.005	<0.005
6/30/2015	<0.005	<0.005				
7/1/2015			<0.005	<0.005	0.0011 (J)	<0.005
7/6/2015	<0.005	<0.005				
7/7/2015			0.0011 (J)	<0.005	<0.005	<0.005
8/12/2015	<0.005	<0.005	0.0011 (J)			
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	0.0007 (J)		0.0014 (J)			
7/11/2016		<0.005		0.0006 (J)	<0.005	0.0005 (J)
9/7/2016		<0.005				
9/8/2016	<0.005		0.0015 (J)			
9/9/2016				<0.005	<0.005	<0.005
10/26/2016	<0.005		0.0016 (J)	<0.005		<0.005
10/27/2016		<0.005			<0.005	
1/6/2017		<0.005				
1/9/2017	<0.005		0.0013 (J)	<0.005	<0.005	<0.005
3/15/2017			0.0019 (J)			<0.005
3/16/2017	0.001 (J)	0.0011 (J)		0.0008 (J)	0.0018 (J)	
5/18/2017			0.0012 (J)	0.001 (J)	<0.005	0.0011 (J)
5/19/2017	0.0006 (J)	0.0007 (J)				
9/15/2017			0.0012 (J)	0.0007 (J)		<0.005
9/18/2017					<0.005	
9/19/2017	0.0006 (J)	0.0006 (J)				
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						0.0014 (J)
9/5/2019	0.00065 (J)	0.00055 (J)	0.0016 (J)	0.00092 (J)	<0.005	
3/3/2020			0.0017 (J)	0.00085 (J)		
3/4/2020	0.00076 (J)	0.0012 (J)			0.00079 (J)	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				0.0012 (J)	<0.005	0.0012 (J)
9/8/2020	<0.005	<0.005	0.0014 (J)			
2/25/2021			0.0017 (J)	0.00078 (J)	0.00083 (J)	0.001 (J)
2/26/2021	0.0008 (J)	0.00071 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0033					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	0.0011 (J)	<0.005	0.0034	0.025 (o)	0.001 (J)	
10/5/2014						<0.005
10/21/2014	<0.005	<0.005	<0.005	0.024 (o)	0.0011 (J)	
10/22/2014						<0.005
11/5/2014			0.0042		0.001 (J)	0.001 (J)
11/11/2014	<0.005	0.0014		0.025 (o)		
3/3/2015	<0.005	0.001 (J)	0.0038	0.029 (o)	<0.005	
3/4/2015						<0.005
3/18/2015	<0.005	<0.005	0.0031	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	<0.005	<0.005				
4/7/2015			0.0037	0.008	<0.005	<0.005
4/23/2015	0.001 (J)	<0.005	0.0033	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	<0.005	<0.005	0.0033	<0.005	<0.005	
7/30/2015						0.001 (J)
3/3/2016	<0.005 (D)					
3/4/2016		<0.005				
3/7/2016			<0.01 (o)	<0.005	<0.005	
3/8/2016						<0.005
5/5/2016			0.00385 (J)	<0.005		
5/9/2016					<0.005	<0.005
5/10/2016	<0.005	<0.005				
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				<0.005	<0.005	<0.005
9/13/2016			0.0029 (J)			
9/14/2016		<0.005				
9/15/2016	<0.005					
10/31/2016			0.0017 (J)		<0.005	<0.005
11/1/2016		<0.005		<0.005		
11/2/2016	<0.005					
1/11/2017	0.0012 (J)	<0.005		<0.005	<0.005	
1/12/2017			0.0025 (J)			0.0011 (J)
3/20/2017	0.0013 (J)			0.0005		
3/21/2017		<0.005			<0.005	
3/22/2017						<0.005
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	<0.005			0.0008		
9/22/2017		<0.005				
9/25/2017			0.0018 (J)			
3/14/2018	<0.005	<0.005	0.0021 (J)	<0.005	<0.005	<0.005
9/7/2018	<0.005			<0.005		
9/10/2018					<0.005	<0.005
9/11/2018		<0.005	0.0017 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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				0.00053 (J)		0.00071 (JD)
9/9/2019	<0.005		0.001 (J)		0.00056 (J)	
9/10/2019		<0.005				
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)			
9/4/2020						0.00078 (J)
9/9/2020	0.00056 (J)	<0.005	0.001 (J)	<0.005	<0.005	
2/26/2021			0.0014 (J)	0.00069 (J)	0.00067 (J)	
3/9/2021	0.0024 (J)					0.00094 (J)
3/10/2021		<0.005				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.005	<0.005
9/18/2014	0.001 (J)	<0.005	<0.005		
10/4/2014				<0.005	<0.005
10/5/2014	0.0013	<0.005	<0.005		
10/22/2014	0.0016	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	0.0013	<0.005	0.0013		
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	0.0012 (J)	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	<0.005	<0.005
4/24/2015	0.001 (J)	<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		0.0005 (J)		
7/18/2016					0.0005 (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		<0.005		<0.005	<0.005
1/25/2017			0.0023 (J)		
3/16/2017					0.0008 (J)
3/20/2017		0.0004 (J)		<0.005	
3/21/2017	<0.005				
3/22/2017			<0.005		
5/19/2017				<0.005	0.0006 (J)
5/23/2017	0.0004 (J)	0.0005 (J)			
5/24/2017			0.0011 (J)		
9/19/2017	0.0006 (J)	<0.005		<0.005	0.0007 (J)
9/21/2017			0.0014 (J)		
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	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		<0.005 (D)	0.00044 (J)
9/6/2019	0.00078 (J)		<0.005		
3/3/2020	0.00058 (J)	0.00057 (J)		0.00052 (J)	0.00078 (J)
3/5/2020			0.00086 (J)		
9/4/2020					0.00073 (J)
9/8/2020	0.0013 (J)	<0.005			
9/9/2020			<0.005	<0.005	
3/9/2021	<0.005	<0.005		<0.005	0.00079 (J)
3/10/2021			0.00073 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	<0.005		<0.005	0.00091 (J)		<0.005
9/9/2020					<0.005	
9/14/2020		<0.005				
2/24/2021	<0.005		<0.005	0.0011 (J)		<0.005
2/25/2021					<0.005	
3/26/2021		<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				0.0012 (J)	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	0.0039 (J)	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.005
9/9/2020	0.00069 (J)	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	0.00047 (J)					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					0.0012 (J)
9/8/2020	<0.005	0.00087 (J)			
9/9/2020			<0.005	<0.005	
3/9/2021	0.0004 (J)	0.00066 (J)		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: Copper (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0049 (J)				
9/16/2014			0.018	<0.005		
10/3/2014	<0.005	<0.005	0.021	0.00089 (J)		
10/20/2014	<0.005	0.0024 (J)	0.022	0.00087 (J)		
11/10/2014	<0.005	<0.005	0.02	<0.005		
3/2/2015	<0.005	<0.005	0.015	0.004 (J)		
3/17/2015	<0.005	<0.005	0.016	0.0016 (J)		
4/5/2015	<0.005	<0.005	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					<0.005	<0.005
5/17/2015					0.0015 (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					0.0012 (J)	0.00082 (J)
6/30/2015					0.00096 (J)	<0.005
7/6/2015					0.00091 (J)	<0.005
7/28/2015	<0.005	0.00097 (J)	0.02	<0.005		
8/12/2015					<0.005	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	0.0103 (J)			
3/2/2016				<0.005		
7/6/2016		<0.005				
7/7/2016	<0.005			<0.005	0.0066 (JD)	
7/8/2016			0.0152 (J)			<0.005
3/14/2017		0.0003 (J)	0.0085 (J)			
3/15/2017	<0.005				<0.005 (D)	<0.005
3/23/2017				<0.005		
9/15/2017	<0.005	<0.005	0.0058 (J)			<0.005
9/19/2017				0.0004 (J)	<0.005 (D)	
3/12/2018	<0.005	<0.005	0.0053 (J)			
3/13/2018				<0.005	<0.005	<0.005
9/6/2018	<0.005	<0.005	0.0054 (J)	<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
3/8/2019					<0.005	
9/4/2019	0.00023 (J)	<0.005	0.0082 (J)	<0.005 (D)	<0.005	<0.005
3/2/2020	<0.005	0.00043 (J)	0.0068 (J)	0.00019 (J)		0.00024 (J)
3/3/2020					0.00041 (J)	
9/3/2020	<0.005		0.0067 (J)	<0.005		<0.005
9/9/2020					0.0019 (J)	
9/14/2020		<0.005				
2/24/2021	<0.005		0.0083	<0.005		<0.005
2/25/2021					<0.005	
3/26/2021		<0.005				

Time Series

Constituent: Copper (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00093 (J)	
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	0.0014 (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	0.00093 (J)				
7/1/2015			<0.005	<0.005	0.0014 (J)	<0.005
7/6/2015	<0.005	<0.005				
7/7/2015			<0.005	0.0011 (J)	<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
7/8/2016	<0.005		<0.005			
7/11/2016		<0.005		<0.005	<0.005	<0.005
3/15/2017			<0.005			<0.005
3/16/2017	<0.005	<0.005		<0.005	<0.005	
9/15/2017			0.0007 (J)	<0.005		0.002 (J)
9/18/2017					<0.005	
9/19/2017	0.0003 (J)	0.0003 (J)				
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						0.00047 (J)
9/5/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
3/3/2020			0.00025 (J)	<0.005		
3/4/2020	0.00053 (J)	<0.005			<0.005	0.0003 (J)
9/4/2020				<0.005	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	<0.005	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Copper (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.0042 (J)					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	0.0024 (J)	0.0012 (J)	<0.005	0.00086 (J)	<0.005	
10/5/2014						<0.005
10/21/2014	0.002 (J)	0.0011 (J)	<0.005	<0.005	<0.005	
10/22/2014						<0.005
11/5/2014			<0.005		<0.005	<0.005
11/11/2014	0.0021 (J)	0.0015 (J)		<0.005		
3/3/2015	0.0017 (J)	0.0012 (J)	<0.005	<0.005	<0.005	
3/4/2015						<0.005
3/18/2015	0.0019 (J)	<0.005	<0.005	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	0.0014 (J)	0.00083 (J)				
4/7/2015			<0.005	<0.005	<0.005	<0.005
4/23/2015	0.0022 (J)	0.0012 (J)	<0.005	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	0.00098 (J)	<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
7/13/2016	0.0022 (J)		<0.005	<0.005		
7/14/2016		0.0124 (J)			<0.005	<0.005
3/20/2017	0.002 (J)			<0.005		
3/21/2017		0.0005 (J)			0.0006 (J)	
3/22/2017						<0.005
3/23/2017			<0.005			
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			<0.005			
3/14/2018	0.0017 (J)	<0.005	<0.005	<0.005	<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			
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	0.00082 (J)		<0.005		<0.005	
9/10/2019		<0.005				
3/4/2020	0.0024 (J)				0.00036 (J)	
3/5/2020		0.00023 (J)		<0.005		<0.005
3/6/2020			0.00023 (J)			
9/4/2020						<0.005
9/9/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	0.0025 (J)					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Copper (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0016 (J)	<0.005	<0.005		
10/22/2014	0.0018 (J)	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	0.0015 (J)	<0.005	0.001 (J)		
11/10/2014				<0.005	<0.005
3/4/2015	<0.005	<0.005	0.0014 (J)	<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	0.0014 (J)	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	0.0011 (J)	<0.005
4/24/2015	0.0016 (J)	<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		
7/12/2016				<0.005	
7/14/2016		<0.005			
7/15/2016	0.0009 (J)		<0.005		
7/18/2016					<0.005
3/16/2017					<0.005
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)	<0.005		<0.005	<0.005
9/21/2017			0.0005 (J)		
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	<0.005
3/11/2019	<0.005	<0.005			
3/12/2019			<0.005		
9/5/2019		<0.005		0.001 (JD)	<0.005
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)		
9/4/2020					<0.005
9/8/2020	<0.005	<0.005			
9/9/2020			<0.005	0.0017 (J)	
3/9/2021	<0.005	<0.005		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.1			<0.1	0.09 (JD)	
7/8/2016			0.02 (J)			0.11 (J)
9/7/2016	<0.1	<0.1	<0.1			
9/8/2016				<0.1	0.03 (JD)	<0.1
10/25/2016	<0.1	0.03 (J)	0.04 (J)	0.03 (J)		
10/26/2016					0.15 (JD)	0.04 (J)
1/5/2017	<0.1	0.03 (J)				
1/6/2017			<0.1		0.11 (JD)	0.04 (J)
2/9/2017				<0.1		
3/14/2017		<0.1	<0.1			
3/15/2017	<0.1				0.004 (JD)	<0.1
3/23/2017				<0.1		
5/16/2017		<0.1	<0.1			
5/17/2017	<0.1			<0.1		0.01 (J)
5/18/2017					0.007 (JD)	
7/19/2017					0.12 (JD)	
9/15/2017	<0.1	<0.1	<0.1			<0.1
9/19/2017				<0.1	0.07 (JD)	
3/12/2018	<0.1	<0.1	<0.1			
3/13/2018				<0.1	0.16 (J)	0.084 (J)
9/6/2018	<0.1	<0.1	<0.1	<0.1		<0.1
9/7/2018					<0.1	
3/6/2019	<0.1		<0.1			
3/7/2019		<0.1		<0.1		<0.1
3/8/2019					0.075 (J)	
9/4/2019	<0.1	<0.1	<0.1	<0.1 (D)	<0.1	<0.1
3/2/2020	<0.1	<0.1	<0.1	<0.1		<0.1
3/3/2020					<0.1	
9/3/2020	<0.1		<0.1	<0.1		<0.1
9/9/2020					<0.1	
9/14/2020		<0.1				
2/24/2021	<0.1		<0.1	<0.1		<0.1
2/25/2021					<0.1	
3/26/2021		<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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		<0.1		<0.1	<0.1	<0.1
9/7/2016		<0.1				
9/8/2016	<0.1		<0.1			
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	<0.1	0.04 (J)		0.07 (J)	0.08 (J)	
5/18/2017			0.02 (J)	<0.1	0.04 (J)	0.19 (J)
5/19/2017	<0.1	0.004 (J)				
9/15/2017			0.03 (J)	<0.1		0.24 (J)
9/18/2017				<0.1		
9/19/2017	<0.1	<0.1				
3/12/2018				<0.1	<0.1	
3/13/2018	<0.1	0.032 (J)	0.054 (J)			0.4
9/6/2018			<0.1			
9/7/2018				<0.1	<0.1	0.14 (J)
9/11/2018	<0.1	<0.1				
3/7/2019			<0.1		<0.1	0.089 (J)
3/8/2019	<0.1			<0.1		
3/12/2019		0.046 (J)				
9/4/2019						0.11 (J)
9/5/2019	<0.1	<0.1	<0.1	<0.1	<0.1	
3/3/2020			<0.1	<0.1		
3/4/2020	<0.1	<0.1			<0.1	0.086 (J)
9/4/2020				<0.1	<0.1	0.086 (J)
9/8/2020	<0.1	<0.1	<0.1			
2/25/2021			<0.1	<0.1	<0.1	0.097 (J)
2/26/2021	<0.1	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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)	<0.1	
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	<0.1		<0.1	<0.1		
7/14/2016		<0.1			<0.1	<0.1
9/12/2016				0.02 (J)	0.03 (J)	0.03 (J)
9/13/2016			0.07 (J)			
9/14/2016		<0.1				
9/15/2016	<0.1					
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		<0.1	<0.1	
1/12/2017			0.06 (J)			0.02 (J)
3/20/2017	0.18 (J)			<0.1		
3/21/2017		0.03 (J)			<0.1	
3/22/2017						0.1 (J)
3/23/2017			0.03 (J)			
5/22/2017				<0.1	<0.1	0.02 (J)
5/23/2017	0.1 (J)	0.004 (J)	0.02 (J)			
9/19/2017						<0.1
9/20/2017					<0.1	
9/21/2017	<0.1			<0.1		
9/22/2017		0.04 (J)				
9/25/2017			0.1 (J)			
3/14/2018	0.17 (J)	<0.1	0.12 (J)	0.12 (J)	0.045 (J)	0.035 (J)
9/7/2018	<0.1			<0.1		
9/10/2018					<0.1	<0.1
9/11/2018		<0.1	<0.1			
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				<0.1		<0.1 (D)
9/9/2019	<0.1		<0.1		<0.1	
9/10/2019		<0.1				
3/4/2020	0.29 (J)				<0.1	
3/5/2020		<0.1		<0.1		<0.1
3/6/2020			<0.1			
9/4/2020						<0.1
9/9/2020	0.17 (J)	<0.1	<0.1	<0.1	<0.1	
2/26/2021			<0.1	<0.1	<0.1	
3/9/2021	0.25					<0.1
3/10/2021		<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/4/2016				<0.1	
3/7/2016		0.00526 (J)			
3/8/2016	0.00287 (J)				0.00246 (J)
3/9/2016			<0.1		
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				<0.1	
7/14/2016		<0.1			
7/15/2016	<0.1		<0.1		
7/18/2016					<0.1
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)		<0.1	<0.1
1/25/2017			0.01 (J)		
3/16/2017					<0.1
3/20/2017		0.06 (J)		<0.1	
3/21/2017	<0.1				
3/22/2017			0.02 (J)		
5/19/2017				0.01 (J)	<0.1
5/23/2017	<0.1	0.02 (J)			
5/24/2017			<0.1		
9/19/2017	<0.1	<0.1		<0.1	<0.1
9/21/2017			0.17 (J)		
3/13/2018		0.046 (J)		0.091 (J)	<0.1
3/14/2018	<0.1		0.18 (J)		
9/7/2018		<0.1			
9/10/2018	<0.1				
9/11/2018			<0.1	<0.1	<0.1
3/8/2019				<0.1	<0.1
3/11/2019	0.51	<0.1			
3/12/2019			0.06 (J)		
6/18/2019	<0.1				
9/5/2019		<0.1		<0.1 (D)	<0.1
9/6/2019	<0.1		<0.1		
3/3/2020	<0.1	<0.1		<0.1	<0.1
3/5/2020			<0.1		
9/4/2020					<0.1
9/8/2020	<0.1	<0.1			
9/9/2020			<0.1	<0.1	
3/9/2021	<0.1	<0.1		<0.1	<0.1
3/10/2021			<0.1		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0069 (J)				
9/16/2014			<0.001	<0.001		
10/3/2014	<0.001	<0.001	<0.001	<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	0.0047 (J)		
3/17/2015	<0.001	<0.001	<0.001	<0.001		
4/5/2015	<0.001	<0.001	<0.001			
4/6/2015				<0.001		
4/21/2015	0.0025 (J)	<0.001				
4/22/2015			<0.001	<0.001		
5/8/2015					<0.001	<0.001
5/17/2015					<0.001	<0.001
5/25/2015					<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					<0.001	<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		0.0004 (J)				
7/7/2016	0.0001 (J)			0.0001 (J)	0.0002 (JD)	
7/8/2016			0.0001 (J)			<0.001
9/7/2016	0.0001 (J)	<0.001	0.0001 (J)			
9/8/2016				0.0001 (J)	<0.001 (D)	<0.001
10/25/2016	<0.001	0.0001 (J)	<0.001	0.0002 (J)		
10/26/2016					<0.001 (D)	<0.001
1/5/2017	0.0001 (J)	0.0002 (J)				
1/6/2017			<0.001		<0.001 (D)	<0.001
2/9/2017				<0.001		
3/14/2017		0.0003 (J)	0.0001 (J)			
3/15/2017	0.0002 (J)				<0.001 (D)	<0.001
3/23/2017				0.0001 (J)		
5/16/2017		<0.001	<0.001			
5/17/2017	8E-05 (J)			0.0001 (J)		<0.001
5/18/2017					<0.001 (D)	
7/19/2017					<0.001 (D)	
9/15/2017	0.0003 (J)	8E-05 (J)	<0.001			<0.001
9/19/2017				<0.001	<0.001 (D)	
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			
3/7/2019		<0.001		<0.001		<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.001	
9/4/2019	7.6E-05 (J)	<0.001	<0.001	<0.001 (D)	<0.001	<0.001
3/2/2020	5.2E-05 (J)	0.00031 (J)	<0.001	<0.001		<0.001
3/3/2020					5.1E-05 (J)	
9/3/2020	0.00012 (J)		<0.001	<0.001		<0.001
9/9/2020					8.9E-05 (J)	
9/14/2020		0.00065 (J)				
2/24/2021	6.2E-05 (J)		<0.001	<0.001		<0.001
2/25/2021					<0.001	
3/26/2021		0.00095 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.001				
5/9/2015	<0.001		<0.001	<0.001	<0.001	<0.001
5/17/2015		<0.001				
5/18/2015	<0.001		<0.001	<0.001	<0.001	
5/19/2015						<0.001
5/25/2015	<0.001	<0.001	<0.001			
5/26/2015				<0.001	<0.001	<0.001
6/8/2015	<0.001	<0.001				
6/9/2015			<0.001	<0.001	<0.001	<0.001
6/17/2015	<0.001		<0.001	<0.001	<0.001	<0.001
6/18/2015		<0.001				
6/24/2015	<0.001	<0.001				
6/25/2015			<0.001	<0.001	<0.001	<0.001
6/30/2015	<0.001	<0.001				
7/1/2015			<0.001	<0.001	<0.001	<0.001
7/6/2015	<0.001	<0.001				
7/7/2015			<0.001	<0.001	<0.001	<0.001
8/12/2015	<0.001	<0.001	<0.001			
8/13/2015				<0.001	<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	0.0002 (J)		<0.001			
7/11/2016		<0.001		<0.001	0.0001 (J)	0.0003 (J)
9/7/2016		<0.001				
9/8/2016	0.0002 (J)		<0.001			
9/9/2016				<0.001	<0.001	0.0001 (J)
10/26/2016	<0.001		<0.001	<0.001		<0.001
10/27/2016		<0.001			0.0001 (J)	
1/6/2017		<0.001				
1/9/2017	<0.001		<0.001	<0.001	<0.001	<0.001
3/15/2017			<0.001			0.0001 (J)
3/16/2017	0.0001 (J)	5E-05 (J)		7E-05 (J)	0.0001 (J)	
5/18/2017			<0.001	0.0001 (J)	7E-05 (J)	0.0001 (J)
5/19/2017	9E-05 (J)	0.0001 (J)				
9/15/2017			<0.001	<0.001		0.0001 (J)
9/18/2017					<0.001	
9/19/2017	0.0001 (J)	<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	8E-05 (J)	8.3E-05 (J)	<0.001	<0.001	<0.001	
3/3/2020			4.8E-05 (J)	4.8E-05 (J)		
3/4/2020	0.00016 (J)	6.6E-05 (J)			<0.001	5E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				0.0001 (J)	<0.001	<0.001
9/8/2020	0.00012 (J)	0.0006 (J)	<0.001			
2/25/2021			<0.001	9E-05 (J)	3.8E-05 (J)	4.5E-05 (J)
2/26/2021	0.00012 (J)	6.4E-05 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	<0.001					
9/17/2014		<0.001	<0.001	<0.001	<0.001	
9/18/2014						<0.001
10/4/2014	<0.001	<0.001	<0.001	<0.001	<0.001	
10/5/2014						<0.001
10/21/2014	<0.001	<0.001	<0.001	<0.001	<0.001	
10/22/2014						<0.001
11/5/2014			<0.001		<0.001	<0.001
11/11/2014	<0.001	<0.001		<0.001		
3/3/2015	<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2015						<0.001
3/18/2015	<0.001	<0.001	<0.001	<0.001		
3/19/2015					<0.001	<0.001
4/6/2015	<0.001	<0.001				
4/7/2015			<0.001	<0.001	<0.001	<0.001
4/23/2015	<0.001	<0.001	<0.001	<0.001		
4/24/2015					<0.001	<0.001
7/29/2015	<0.001	<0.001	<0.001	<0.001	<0.001	
7/30/2015						<0.001
3/3/2016	<0.001 (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		0.0001 (J)	<0.001		
7/14/2016		0.0006 (J)			9E-05 (J)	<0.001
9/12/2016				0.0002 (J)	<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		0.0001 (J)		
11/2/2016	<0.001					
1/11/2017	0.0001 (J)	<0.001		<0.001	<0.001	
1/12/2017			0.0002 (J)			<0.001
3/20/2017	<0.001			7E-05 (J)		
3/21/2017		<0.001			7E-05 (J)	
3/22/2017						<0.001
3/23/2017			0.0002 (J)			
5/22/2017				<0.001	<0.001	<0.001
5/23/2017	8E-05 (J)	<0.001	0.0002 (J)			
9/19/2017						<0.001
9/20/2017					0.0004 (J)	
9/21/2017	9E-05 (J)			0.0003 (J)		
9/22/2017		<0.001				
9/25/2017			8E-05 (J)			
3/14/2018	<0.001	<0.001	<0.001	0.00035 (J)	<0.001	<0.001
9/7/2018	<0.001			<0.001		
9/10/2018					<0.001	<0.001
9/11/2018		<0.001	<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.001					
3/12/2019		<0.001	<0.001	<0.001	<0.001	<0.001
9/6/2019				<0.001		<0.001 (D)
9/9/2019	<0.001		5E-05 (J)		<0.001	
9/10/2019		<0.001				
3/4/2020	<0.001				0.0003 (J)	
3/5/2020		<0.001		0.00032 (J)		<0.001
3/6/2020			0.00013 (J)			
9/4/2020						<0.001
9/9/2020	0.00017 (J)	<0.001	6E-05 (J)	0.00025 (J)	<0.001	
2/26/2021			9.4E-05 (J)	0.00025 (J)	<0.001	
3/9/2021	0.00011 (J)					<0.001
3/10/2021		<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
9/16/2014				<0.001	<0.001
9/18/2014	<0.001	<0.001	<0.001		
10/4/2014				<0.001	<0.001
10/5/2014	<0.001	<0.001	<0.001		
10/22/2014	<0.001	<0.001	<0.001		
10/23/2014				<0.001	<0.001
11/5/2014	<0.001	<0.001	<0.001		
11/10/2014				<0.001	<0.001
3/4/2015	<0.001	<0.001	<0.001	<0.001	<0.001
3/19/2015	<0.001	<0.001			
3/20/2015			<0.001	<0.001	<0.001
4/8/2015	<0.001	<0.001	<0.001	<0.001	
4/9/2015					<0.001
4/23/2015			<0.001	<0.001	<0.001
4/24/2015	<0.001	<0.001			
7/30/2015	<0.001	<0.001	<0.001	<0.001	<0.001
3/4/2016				<0.001	
3/7/2016		<0.001			
3/8/2016	<0.001				<0.001
3/9/2016			<0.001		
5/4/2016					<0.001
5/5/2016		<0.001		<0.001	
5/6/2016			<0.001		
5/9/2016	<0.001				
7/12/2016				<0.001	
7/14/2016		<0.001			
7/15/2016	<0.001		<0.001		
7/18/2016					0.0001 (J)
9/9/2016	<0.001				
9/12/2016		<0.001			
9/13/2016				<0.001	<0.001
9/14/2016			<0.001		
10/27/2016	<0.001	<0.001		<0.001	<0.001
11/1/2016			<0.001		
1/12/2017	<0.001				
1/13/2017		0.0001 (J)		<0.001	<0.001
1/25/2017			<0.001		
3/16/2017					0.0003 (J)
3/20/2017		7E-05 (J)		0.0001 (J)	
3/21/2017	6E-05 (J)				
3/22/2017			<0.001		
5/19/2017				<0.001	0.0001 (J)
5/23/2017	<0.001	<0.001			
5/24/2017			0.0001 (J)		
9/19/2017	<0.001	0.0001 (J)		0.0002 (J)	<0.001
9/21/2017			<0.001		
3/13/2018		<0.001		<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	0.00035 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.001	<0.001			
3/12/2019			<0.001		
9/5/2019		<0.001		9.05E-05 (JD)	6E-05 (J)
9/6/2019	0.0016 (J)		6.8E-05 (J)		
3/3/2020	<0.001	5.9E-05 (J)		5.7E-05 (J)	5.9E-05 (J)
3/5/2020			5.2E-05 (J)		
9/4/2020					0.00012 (J)
9/8/2020	6.7E-05 (J)	<0.001			
9/9/2020			<0.001	0.0001 (J)	
3/9/2021	<0.001	<0.001		<0.001	<0.001
3/10/2021			<0.001		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
9/15/2014	<0.0002	0.000172 (J)				
9/16/2014			4.23E-05 (J)	2.75E-05 (J)		
10/3/2014	<0.0002	<0.0002	<0.0002	<0.0002		
10/20/2014	<0.0002	<0.0002	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)	<0.0002	<0.0002	3.07E-05 (J)		
3/17/2015	<0.0002	<0.0002	<0.0002	<0.0002		
4/5/2015	<0.0002	<0.0002	<0.0002			
4/6/2015				<0.0002		
4/21/2015	<0.0002	2.39E-05 (J)				
4/22/2015			<0.0002	<0.0002		
5/8/2015					<0.0002	<0.0002
5/17/2015					0.000101 (J)	<0.0002
5/25/2015					4.88E-05 (J)	<0.0002
6/8/2015					<0.0002	<0.0002
6/18/2015					4.1E-05 (J)	<0.0002
6/24/2015					8.41E-05 (J)	<0.0002
6/30/2015					<0.0002	<0.0002
7/6/2015					<0.0002	<0.0002
7/28/2015	2.13E-05 (J)	5.2E-05 (J)	<0.0002	<0.0002		
8/12/2015					4.91E-05 (J)	<0.0002
2/29/2016						<0.0002
3/1/2016	<0.0002	<0.0002	<0.0002			
3/2/2016				<0.0002		
5/2/2016	<0.0002	<0.0002				
5/3/2016			<0.0002	<0.0002		
5/4/2016					<0.0002 (D)	<0.0002
7/6/2016		<0.0002				
7/7/2016	<0.0002			<0.0002	<0.0002 (D)	
7/8/2016			<0.0002			<0.0002
9/7/2016	<0.0002	<0.0002	<0.0002			
9/8/2016				<0.0002	<0.0002 (D)	<0.0002
10/25/2016	<0.0002	<0.0002	<0.0002	<0.0002		
10/26/2016					<0.0002 (D)	<0.0002
1/5/2017	<0.0002	<0.0002				
1/6/2017			<0.0002		<0.0002 (D)	<0.0002
2/9/2017				<0.0002		
3/14/2017		<0.0002	<0.0002			
3/15/2017	<0.0002				<0.0002 (D)	<0.0002
3/23/2017				<0.0002		
5/16/2017		<0.0002	<0.0002			
5/17/2017	<0.0002			<0.0002		<0.0002
5/18/2017					<0.0002 (D)	
7/19/2017					<0.0002 (D)	
9/15/2017	<0.0002	<0.0002	<0.0002			<0.0002
9/19/2017				<0.0002	<0.0002 (D)	
3/12/2018	<0.0002	<0.0002	<0.0002			
3/13/2018				<0.0002	<0.0002	<0.0002
9/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/7/2018					<0.0002	
3/6/2019	<0.0002		<0.0002			
3/7/2019		<0.0002		<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-38 (bg)	GWA-51RZ (bg)	GWA-52 (bg)
3/8/2019					<0.0002	
9/4/2019	<0.0002	<0.0002	<0.0002	<0.0002 (D)	<0.0002	<0.0002
3/2/2020	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/3/2020					<0.0002	
9/3/2020	<0.0002		<0.0002	<0.0002		<0.0002
9/9/2020					<0.0002	
9/14/2020		<0.0002				
2/24/2021	<0.0002		9.1E-05 (J)	0.00013 (J)		<0.0002
2/25/2021					<0.0002	
3/26/2021		<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
5/8/2015		<0.0002				
5/9/2015	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
5/17/2015		<0.0002				
5/18/2015	<0.0002		<0.0002	<0.0002	<0.0002	
5/19/2015						<0.0002
5/25/2015	<0.0002	<0.0002	<0.0002			
5/26/2015				<0.0002	<0.0002	<0.0002
6/8/2015	<0.0002	<0.0002				
6/9/2015			<0.0002	<0.0002	<0.0002	<0.0002
6/17/2015	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/18/2015		<0.0002				
6/24/2015	<0.0002	<0.0002				
6/25/2015			<0.0002	<0.0002	<0.0002	<0.0002
6/30/2015	<0.0002	<0.0002				
7/1/2015			<0.0002	<0.0002	<0.0002	<0.0002
7/6/2015	<0.0002	<0.0002				
7/7/2015			<0.0002	<0.0002	<0.0002	<0.0002
8/12/2015	<0.0002	<0.0002	<0.0002			
8/13/2015				<0.0002	<0.0002	<0.0002
3/2/2016	<0.0002	<0.0002	<0.0002	<0.0002		
3/3/2016					<0.0002	<0.0002
5/3/2016	<0.0002	<0.0002		<0.0002	<0.0002	
5/4/2016			<0.0002			
5/9/2016						<0.0002
7/8/2016	<0.0002		<0.0002			
7/11/2016		<0.0002		<0.0002	<0.0002	<0.0002
9/7/2016		<0.0002				
9/8/2016	<0.0002		<0.0002			
9/9/2016				<0.0002	<0.0002	<0.0002
10/26/2016	<0.0002		<0.0002	<0.0002		<0.0002
10/27/2016		<0.0002			<0.0002	
1/6/2017		<0.0002				
1/9/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/15/2017			<0.0002			<0.0002
3/16/2017	<0.0002	<0.0002		<0.0002	<0.0002	
5/18/2017			<0.0002	<0.0002	<0.0002	<0.0002
5/19/2017	<0.0002	<0.0002				
9/15/2017			<0.0002	<0.0002		<0.0002
9/18/2017					<0.0002	
9/19/2017	<0.0002	<0.0002				
3/12/2018				<0.0002	<0.0002	
3/13/2018	<0.0002	<0.0002	<0.0002			<0.0002
9/6/2018			<0.0002			
9/7/2018				<0.0002	<0.0002	<0.0002
9/11/2018	<0.0002	<0.0002				
3/7/2019			<0.0002		<0.0002	<0.0002
3/8/2019	<0.0002			<0.0002		
3/12/2019		<0.0002				
9/4/2019						<0.0002
9/5/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/3/2020			<0.0002	<0.0002		
3/4/2020	<0.0002	<0.0002			<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				<0.0002	<0.0002	<0.0002
9/8/2020	<0.0002	<0.0002	<0.0002			
2/25/2021			<0.0002	<0.0002	<0.0002	<0.0002
2/26/2021	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.0002	<0.0002	2.5E-05 (J)	<0.0002	<0.0002	
10/5/2014						<0.0002
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	<0.0002	3.66E-05 (J)		4.64E-05 (J)		
3/3/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/4/2015						<0.0002
3/18/2015	<0.0002	<0.0002	<0.0002	<0.0002		
3/19/2015					<0.0002	<0.0002
4/6/2015	<0.0002	<0.0002				
4/7/2015			<0.0002	<0.0002	<0.0002	<0.0002
4/23/2015	<0.0002	<0.0002	<0.0002	<0.0002		
4/24/2015					<0.0002	<0.0002
7/29/2015	<0.0002	<0.0002	3.14E-05 (J)	<0.0002	<0.0002	
7/30/2015						<0.0002
3/3/2016	<0.0002 (D)					
3/4/2016		<0.0002				
3/7/2016			<0.0002	<0.0002	<0.0002	
3/8/2016						<0.0002
5/5/2016			<0.0002	<0.0002		
5/9/2016					<0.0002	<0.0002
5/10/2016	<0.0002	<0.0002				
7/13/2016	<0.0002		<0.0002	<0.0002		
7/14/2016		<0.0002			<0.0002	<0.0002
9/12/2016				<0.0002	<0.0002	<0.0002
9/13/2016			<0.0002			
9/14/2016		<0.0002				
9/15/2016	<0.0002					
10/31/2016			<0.0002		<0.0002	<0.0002
11/1/2016		<0.0002		<0.0002		
11/2/2016	<0.0002					
1/11/2017	<0.0002	<0.0002		<0.0002	<0.0002	
1/12/2017			<0.0002			<0.0002
3/20/2017	<0.0002			<0.0002		
3/21/2017		<0.0002			<0.0002	
3/22/2017						<0.0002
3/23/2017			<0.0002			
5/22/2017				<0.0002	<0.0002	<0.0002
5/23/2017	<0.0002	<0.0002	<0.0002			
9/19/2017						<0.0002
9/20/2017					<0.0002	
9/21/2017	<0.0002			<0.0002		
9/22/2017		<0.0002				
9/25/2017			<0.0002			
3/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/7/2018	<0.0002			<0.0002		
9/10/2018					<0.0002	<0.0002
9/11/2018		<0.0002	<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
3/11/2019	<0.0002					
3/12/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/6/2019				<0.0002		<0.0002 (D)
9/9/2019	<0.0002		<0.0002		<0.0002	
9/10/2019		<0.0002				
3/4/2020	<0.0002				<0.0002	
3/5/2020		<0.0002		<0.0002		<0.0002
3/6/2020			<0.0002			
9/4/2020						<0.0002
9/9/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/26/2021			<0.0002	<0.0002	<0.0002	
3/9/2021	<0.0002					<0.0002
3/10/2021		<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.0002	2.54E-05 (J)	2.82E-05 (J)		
10/4/2014				<0.0002	<0.0002
10/5/2014	<0.0002	<0.0002	<0.0002		
10/22/2014	2.57E-05 (J)	2.83E-05 (J)	<0.0002		
10/23/2014				<0.0002	4.6E-05 (J)
11/5/2014	<0.0002	0.0002	4.83E-05 (J)		
11/10/2014				5.15E-05 (J)	2.5E-05 (J)
3/4/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/19/2015	<0.0002	<0.0002			
3/20/2015			<0.0002	<0.0002	<0.0002
4/8/2015	<0.0002	<0.0002	<0.0002	<0.0002	
4/9/2015					<0.0002
4/23/2015			<0.0002	<0.0002	<0.0002
4/24/2015	<0.0002	<0.0002			
7/30/2015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/4/2016				<0.0002	
3/7/2016		<0.0002			
3/8/2016	<0.0002				<0.0002
3/9/2016			<0.0002		
5/4/2016					<0.0002
5/5/2016		<0.0002		<0.0002	
5/6/2016			<0.0002		
5/9/2016	<0.0002				
7/12/2016				<0.0002	
7/14/2016		<0.0002			
7/15/2016	<0.0002		<0.0002		
7/18/2016					<0.0002
9/9/2016	<0.0002				
9/12/2016		<0.0002			
9/13/2016				<0.0002	<0.0002
9/14/2016			<0.0002		
10/27/2016	<0.0002	<0.0002		<0.0002	<0.0002
11/1/2016			<0.0002		
1/12/2017	<0.0002				
1/13/2017		<0.0002		<0.0002	<0.0002
1/25/2017			<0.0002		
3/16/2017					<0.0002
3/20/2017		<0.0002		<0.0002	
3/21/2017	<0.0002				
3/22/2017			<0.0002		
5/19/2017				<0.0002	<0.0002
5/23/2017	<0.0002	<0.0002			
5/24/2017			<0.0002		
9/19/2017	<0.0002	<0.0002		<0.0002	<0.0002
9/21/2017			<0.0002		
3/13/2018		<0.0002		<0.0002	<0.0002
3/14/2018	<0.0002		<0.0002		
9/7/2018		<0.0002			
9/10/2018	<0.0002				
9/11/2018			<0.0002	<0.0002	<0.0002
3/8/2019				<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-22R	GWC-23R	GWC-24R	GWC-25R
3/11/2019	<0.0002	<0.0002			
3/12/2019			<0.0002		
9/5/2019		<0.0002		<0.0002 (D)	<0.0002
9/6/2019	<0.0002		<0.0002		
3/3/2020	<0.0002	<0.0002		<0.0002	<0.0002
3/5/2020			<0.0002		
9/4/2020					<0.0002
9/8/2020	<0.0002	<0.0002			
9/9/2020			<0.0002	<0.0002	
3/9/2021	<0.0002	<0.0002		<0.0002	<0.0002
3/10/2021			<0.0002		

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.01				
9/16/2014			0.018	0.0028		
10/3/2014	<0.005	<0.005	0.022	0.0036		
10/20/2014	<0.005	0.0043	0.022	0.0025		
11/10/2014	<0.005	<0.005	0.018	0.0026		
3/2/2015	<0.005	<0.005	0.016	0.017		
3/17/2015	<0.005	<0.005	0.015	0.0057		
4/5/2015	<0.005	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					<0.005	<0.005
5/17/2015					0.0016 (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	0.0032	0.018	0.0015 (J)		
8/12/2015					<0.005	<0.005
2/29/2016						<0.005
3/1/2016	<0.005	<0.005	0.0138			
3/2/2016				<0.005		
7/6/2016		0.0007 (J)				
7/7/2016	<0.005			0.0014 (J)	0.0008 (JD)	
7/8/2016			0.014			<0.005
3/14/2017		0.0007 (J)	0.0087 (J)			
3/15/2017	0.0142				<0.005 (D)	0.0005 (J)
3/23/2017				<0.005		
9/15/2017	0.0005 (J)	<0.005	0.0053 (J)			<0.005
9/19/2017				0.0011 (J)	<0.005 (D)	
3/12/2018	<0.005	<0.005	0.0054 (J)			
3/13/2018				<0.005	<0.005	<0.005
9/6/2018	<0.005	<0.005	0.0069 (J)	<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
3/8/2019					<0.005	
9/4/2019	0.00041 (J)	<0.005	0.0059 (J)	0.000825 (JD)	<0.005	<0.005
3/2/2020	0.00071 (J)	0.00051 (J)	0.0079 (J)	0.001 (J)		<0.005
3/3/2020					<0.005	
9/3/2020	<0.005		0.0096 (J)	0.00089 (J)		<0.005
9/9/2020					<0.005	
9/14/2020		<0.005				
2/24/2021	<0.005		0.01	0.00091 (J)		<0.005
2/25/2021					<0.005	
3/26/2021		<0.005				

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0018 (J)	
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			0.0015 (J)	<0.005	0.0022 (J)	<0.005
6/17/2015	<0.005		0.0013 (J)	<0.005	<0.005	<0.005
6/18/2015		<0.005				
6/24/2015	0.0034	<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	0.0016 (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	<0.005
3/2/2016	<0.005	<0.005	<0.005	<0.005		
3/3/2016					<0.005	<0.005
7/8/2016	<0.005		<0.005			
7/11/2016		<0.005		<0.005	0.0007 (J)	0.0006 (J)
3/15/2017			0.0005 (J)			<0.005
3/16/2017	0.0005 (J)	<0.005		0.0008 (J)	0.0015 (J)	
9/15/2017			<0.005	<0.005		<0.005
9/18/2017					<0.005	
9/19/2017	<0.005	<0.005				
3/12/2018				<0.005	<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	<0.005	<0.005	<0.005	<0.005	<0.005	
3/3/2020			<0.005	0.00061 (J)		
3/4/2020	<0.005	<0.005			<0.005	<0.005
9/4/2020				<0.005	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	<0.005	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-17R	GWC-18	GWC-18R	GWC-19R	GWC-20R
9/16/2014	0.03					
9/17/2014		<0.005	<0.005	<0.005	<0.005	
9/18/2014						<0.005
10/4/2014	0.029	<0.005	<0.005	<0.005	<0.005	
10/5/2014						<0.005
10/21/2014	0.026	<0.005	<0.005	<0.005	<0.005	
10/22/2014						<0.005
11/5/2014			0.0016 (J)		<0.005	<0.005
11/11/2014	0.023	<0.005		<0.005		
3/3/2015	0.02	<0.005	<0.005	<0.005	<0.005	
3/4/2015						<0.005
3/18/2015	0.019	<0.005	<0.005	<0.005		
3/19/2015					<0.005	<0.005
4/6/2015	0.02	<0.005				
4/7/2015			0.0014 (J)	<0.005	<0.005	<0.005
4/23/2015	0.019	<0.005	<0.005	<0.005		
4/24/2015					<0.005	<0.005
7/29/2015	0.018	<0.005	0.0015 (J)	<0.005	<0.005	
7/30/2015						<0.005
3/3/2016	0.0111 (D)					
3/4/2016		<0.005				
3/7/2016			<0.005	<0.005	<0.005	
3/8/2016						<0.005
7/13/2016	0.0133		0.0007 (J)	<0.005		
7/14/2016		<0.005			<0.005	<0.005
3/20/2017	0.0111			<0.005		
3/21/2017		<0.005			<0.005	
3/22/2017						<0.005
3/23/2017			<0.005			
9/19/2017						<0.005
9/20/2017					0.0006 (J)	
9/21/2017	0.0092 (J)			<0.005		
9/22/2017		<0.005				
9/25/2017			0.0015 (J)			
3/14/2018	0.0094 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/7/2018	0.0086 (J)			<0.005		
9/10/2018					<0.005	<0.005
9/11/2018		<0.005	<0.005			
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	0.0066 (J)		<0.005		<0.005	
9/10/2019		<0.005				
3/4/2020	0.0032 (J)				0.00071 (J)	
3/5/2020		<0.005		<0.005		<0.005
3/6/2020			0.0005 (J)			
9/4/2020						<0.005
9/9/2020	0.0067 (J)	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	0.0053					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0013 (J)	<0.005	<0.005		
10/23/2014				<0.005	<0.005
11/5/2014	0.0013 (J)	<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	0.0014 (J)	<0.005	<0.005	<0.005	
4/9/2015					<0.005
4/23/2015			<0.005	<0.005	<0.005
4/24/2015	0.0014 (J)	<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	0.0261 (o)				<0.005
3/9/2016			<0.005		
7/12/2016				<0.005	
7/14/2016		<0.005			
7/15/2016	0.0021 (J)		<0.005		
7/18/2016					<0.005
3/16/2017					0.0012 (J)
3/20/2017		<0.005		0.0003 (J)	
3/21/2017	<0.005				
3/22/2017			<0.005		
9/19/2017	0.0012 (J)	0.0011 (J)		<0.005	<0.005
9/21/2017			0.0012 (J)		
3/13/2018		<0.005		<0.005	<0.005
3/14/2018	0.0014 (J)		<0.005		
9/7/2018		<0.005			
9/10/2018	0.002 (J)				
9/11/2018			<0.005	<0.005	<0.005
3/8/2019				<0.005	<0.005
3/11/2019	<0.005	<0.005			
3/12/2019			<0.005		
9/5/2019		0.0011 (J)		<0.005 (D)	<0.005
9/6/2019	0.0028 (J)		0.00086 (J)		
3/3/2020	0.00099 (J)	0.001 (J)		<0.005	<0.005
3/5/2020			0.00075 (J)		
9/4/2020					<0.005
9/8/2020	0.0014 (J)	0.00083 (J)			
9/9/2020			<0.005	<0.005	
3/9/2021	0.00075 (J)	<0.005		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: pH (pH units) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	6.81		5.17	5.32		7.67
9/9/2020					7.59	
9/14/2020		7.1				
2/24/2021	6.69		5.49	5.23		7.53
2/25/2021					7.43	
3/26/2021		7.11				

Time Series

Constituent: pH (pH units) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				7.24	7.64	7.82
9/8/2020	7.67	7.68	7.56			
2/25/2021			7.55	7.05	7.27	7.85
2/26/2021	7.7	7.72				

Time Series

Constituent: pH (pH units) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						7.57
9/9/2020	7.08	7.24	6.63	7.81	7.67	
2/26/2021			7.07	7.81	7.73	
3/9/2021	7.34					7.81
3/10/2021		7.27				

Time Series

Constituent: pH (pH units) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					7.62
9/8/2020	7.07	7.19			
9/9/2020			7.12	7.22	
12/15/2020			7.39		
3/9/2021	6.98	7.35		7.8	8.07
3/10/2021			7.41		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005				
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	<0.005		
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					<0.005	<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					0.00982 (JD)	<0.005
7/6/2016		<0.005				
7/7/2016	<0.005			<0.005	0.01 (D)	
7/8/2016			<0.005			<0.005
9/7/2016	<0.005	<0.005	<0.005			
9/8/2016				<0.005	0.0046 (JD)	<0.005
10/25/2016	<0.005	<0.005	<0.005	<0.005		
10/26/2016					0.0071 (JD)	<0.005
1/5/2017	<0.005	<0.005				
1/6/2017			<0.005		0.0099 (JD)	<0.005
2/9/2017				<0.005		
3/14/2017		<0.005	<0.005			
3/15/2017	<0.005				0.0056 (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					0.0064 (JD)	
7/19/2017					<0.005 (D)	
9/15/2017	<0.005	<0.005	<0.005			<0.005
9/19/2017				<0.005	0.0029 (JD)	
3/12/2018	<0.005	<0.005	<0.005			
3/13/2018				<0.005	0.005 (J)	<0.005
9/6/2018	<0.005	<0.005	<0.005	<0.005		<0.005
9/7/2018					0.01	
3/6/2019	<0.005		<0.005			
3/7/2019		<0.005		<0.005		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	<0.005	<0.005	<0.005 (D)	0.01	<0.005
3/2/2020	<0.005	<0.005	<0.005	<0.005		<0.005
3/3/2020					0.0053 (J)	
9/3/2020	<0.005		<0.005	<0.005		<0.005
9/9/2020					0.0059 (J)	
9/14/2020		<0.005				
2/24/2021	<0.005		<0.005	<0.005		<0.005
2/25/2021					0.0099	
3/26/2021		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00234 (J)		
3/3/2016					<0.005	<0.005
5/3/2016	<0.005	<0.005		0.00241 (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		<0.005	0.0011 (J)	<0.005
9/7/2016		<0.005				
9/8/2016	<0.005		<0.005			
9/9/2016				<0.005	0.001 (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	0.0011 (J)
3/15/2017			<0.005			<0.005
3/16/2017	<0.005	<0.005		<0.005	<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				0.0018 (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		0.0016 (J)	<0.005
3/8/2019	<0.005			0.0026 (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	0.0025 (J)		
3/4/2020	<0.005	<0.005			0.0018 (J)	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53 (bg)	GWA-53R (bg)	GWA-54 (bg)	GWA-55 (bg)	GWA-55R (bg)	GWA-56 (bg)
9/4/2020				<0.005	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	0.0018 (J)	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		<0.005	<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	<0.005					
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	<0.005			<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	<0.005	<0.005	<0.005			
9/19/2017						<0.005
9/20/2017					<0.005	
9/21/2017	<0.005			<0.005		
9/22/2017		<0.005				
9/25/2017			<0.005			
3/14/2018	<0.005	<0.005	<0.005	<0.005	<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: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.005
9/9/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	<0.005					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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					<0.005
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	<0.005				
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	<0.005		<0.005	<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	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		<0.005 (D)	<0.005
9/6/2019	<0.005		<0.005		
3/3/2020	<0.005	<0.005		<0.005	<0.005
3/5/2020			<0.005		
9/4/2020					<0.005
9/8/2020	<0.005	<0.005			
9/9/2020			0.0017 (J)	<0.005	
3/9/2021	<0.005	<0.005		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005				
9/16/2014			<0.005	0.00051 (J)		
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	<0.005		
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					<0.005	<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		
7/6/2016		<0.005				
7/7/2016	<0.005			<0.005	<0.005 (D)	
7/8/2016			<0.005			<0.005
3/14/2017		<0.005	<0.005			
3/15/2017	<0.005				<0.005 (D)	<0.005
3/23/2017				<0.005		
9/15/2017	<0.005	<0.005	<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
3/8/2019					<0.005	
9/4/2019	<0.005	<0.005	<0.005	<0.005 (D)	<0.005	<0.005
3/2/2020	<0.005	<0.005	<0.005	<0.005		<0.005
3/3/2020					<0.005	
9/3/2020	<0.005		<0.005	<0.005		<0.005
9/9/2020					<0.005	
9/14/2020		<0.005				
2/24/2021	<0.005		<0.005	<0.005		<0.005
2/25/2021					<0.005	
3/26/2021		<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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
7/8/2016	<0.005		<0.005			
7/11/2016		<0.005		<0.005	<0.005	<0.005
3/15/2017			<0.005			<0.005
3/16/2017	<0.005	<0.005		<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				<0.005	<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	<0.005	<0.005	<0.005	<0.005	<0.005	
3/3/2020			<0.005	<0.005		
3/4/2020	<0.005	<0.005			<0.005	<0.005
9/4/2020				<0.005	<0.005	<0.005
9/8/2020	<0.005	<0.005	<0.005			
2/25/2021			<0.005	<0.005	<0.005	<0.005
2/26/2021	<0.005	<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00058 (J)	<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	0.0007 (J)		<0.005		
3/3/2015	<0.005	0.00052 (J)	<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	0.0013 (J)	<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
7/13/2016	<0.005		<0.005	<0.005		
7/14/2016		<0.005			<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			
9/19/2017						<0.005
9/20/2017					<0.005	
9/21/2017	<0.005			<0.005		
9/22/2017		<0.005				
9/25/2017			<0.005			
3/14/2018	<0.005	<0.005	<0.005	<0.005	<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			
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			
9/4/2020						<0.005
9/9/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2021			<0.005	<0.005	<0.005	
3/9/2021	<0.005					<0.005
3/10/2021		<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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		
7/12/2016				<0.005	
7/14/2016		<0.005			
7/15/2016	<0.005		<0.005		
7/18/2016					<0.005
3/16/2017					<0.005
3/20/2017		<0.005		<0.005	
3/21/2017	<0.005				
3/22/2017			<0.005		
9/19/2017	<0.005	<0.005		<0.005	<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	<0.005
3/11/2019	<0.005	<0.005			
3/12/2019			<0.005		
9/5/2019		<0.005		<0.005 (D)	<0.005
9/6/2019	<0.005		<0.005		
3/3/2020	<0.005	<0.005		<0.005	<0.005
3/5/2020			<0.005		
9/4/2020					<0.005
9/8/2020	<0.005	<0.005			
9/9/2020			<0.005	<0.005	
3/9/2021	<0.005	<0.005		<0.005	<0.005
3/10/2021			<0.005		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	0.65 (J)		<1	0.58 (J)		3.5
9/9/2020					21.8	
9/14/2020		1.3				
2/24/2021	0.51 (J)		<1	0.72 (J)		29.2
2/25/2021					29.5	
3/26/2021		5.4				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				20.4	16.1	54.9
9/8/2020	1.4	1.4	1.8			
2/25/2021			1.7	34.5	23.2	62.6
2/26/2021	1.6	1.6				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						1.1
9/9/2020	2.8	5.6	1.4	1.9	3.4	
2/26/2021			2.1	2.1	3.4	
3/9/2021	12.9					1.5
3/10/2021		7.3				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					1.6
9/8/2020	9.6	1.3			
9/9/2020			124	1.9	
12/15/2020			61.2		
3/9/2021	10.5	1.4		1.6	1.6
3/10/2021			56.8		

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)	
9/3/2020	<0.001		<0.001	<0.001		<0.001
9/9/2020					<0.001	
9/14/2020		<0.001				
2/24/2021	<0.001		<0.001	<0.001		<0.001
2/25/2021					<0.001	
3/26/2021		<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				<0.001	<0.001	<0.001
9/8/2020	<0.001	<0.001	<0.001			
2/25/2021			<0.001	<0.001	<0.001	<0.001
2/26/2021	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)			
9/4/2020						<0.001
9/9/2020	<0.001	<0.001	<0.001	<0.001	<0.001	
2/26/2021			<0.001	<0.001	<0.001	
3/9/2021	<0.001					<0.001
3/10/2021		<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)		
9/4/2020					<0.001
9/8/2020	<0.001	0.00016 (J)			
9/9/2020			0.00016 (J)	<0.001	
3/9/2021	<0.001	<0.001		<0.001	<0.001
3/10/2021			<0.001		

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/5/2021 6:39 PM

Plant Bowen Client: Southern Company Data: Bowen 3&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	
9/3/2020	90		25	21		132
9/9/2020					205	
9/14/2020		156				
2/24/2021	60		10	12		144
2/25/2021					217	
3/26/2021		123				

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/5/2021 6:39 PM

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				226	180	267
9/8/2020	138	124	116			
2/25/2021			124	217	194	284
2/26/2021	128	98				

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/5/2021 6:39 PM

Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						212
9/9/2020	297	285	88	120	152	
2/26/2021			90	121	172	
3/9/2021	335					163
3/10/2021		256				

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/5/2021 6:39 PM

Plant Bowen Client: Southern Company Data: Bowen 3&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		
9/4/2020					172
9/8/2020	297	157			
9/9/2020			501	155	
12/15/2020			351		
3/9/2021	286	161		158	153
3/10/2021			333		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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)	
9/3/2020	<0.01		<0.01	<0.01		<0.01
9/9/2020					<0.01	
9/14/2020		<0.01				
2/24/2021	<0.01		<0.01	<0.01		<0.01
2/25/2021					<0.01	
3/26/2021		<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020				<0.01	<0.01	<0.01
9/8/2020	<0.01	<0.01	<0.01			
2/25/2021			<0.01	<0.01	<0.01	<0.01
2/26/2021	<0.01	<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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			
9/4/2020						<0.01
9/9/2020	<0.01	<0.01	<0.01	<0.01	<0.01	
2/26/2021			<0.01	<0.01	<0.01	
3/9/2021	0.003 (J)					<0.01
3/10/2021		<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/5/2021 6:39 PM
Plant Bowen Client: Southern Company Data: Bowen 3&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)		
9/4/2020					<0.01
9/8/2020	<0.01	<0.01			
9/9/2020			<0.01	<0.01	
3/9/2021	<0.01	<0.01		<0.01	<0.01
3/10/2021			<0.01		

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02
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	<0.02
7/6/2015					0.01	<0.02
7/28/2015	0.26	0.15	0.0099	0.0035		
8/12/2015					0.0047 (BJ)	0.0033 (BJ)
2/29/2016						<0.02
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)			<0.02
3/14/2017		0.0401	0.0042 (J)			
3/15/2017	0.382				<0.02 (D)	0.0013 (J)
3/23/2017				<0.02		
9/15/2017	0.406	0.0338	0.0032 (J)			<0.02
9/19/2017				0.002 (J)	<0.02 (D)	
3/12/2018	0.5	0.042	0.0025 (J)			
3/13/2018				<0.02	<0.02	<0.02
9/6/2018	0.37	0.045	<0.02	<0.02		<0.02
9/7/2018				<0.02		
3/6/2019	0.56		0.0035 (J)			
3/7/2019		0.043		<0.02		<0.02
3/8/2019					<0.02	
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)	
9/3/2020	0.35		0.0049 (J)	<0.02		<0.02
9/9/2020					<0.02	
9/14/2020		0.053				
2/24/2021	0.44		0.0038 (J)	<0.02		<0.02
2/25/2021					<0.02	
3/26/2021		0.046				

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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)		<0.02	<0.02	<0.02	<0.02
5/17/2015		<0.02				
5/18/2015	0.0034		0.0019 (J)	0.0016 (J)	0.0033	
5/19/2015						0.0045
5/25/2015	<0.02	0.0022 (J)	0.0022 (J)			
5/26/2015				<0.02	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	<0.02		0.0035	0.0017 (J)	<0.02	0.0018 (J)
6/18/2015		0.0026				
6/24/2015	<0.02	0.0015 (J)				
6/25/2015			<0.02	<0.02	<0.02	<0.02
6/30/2015	<0.02	0.0015 (J)				
7/1/2015			<0.02	<0.02	0.0064	<0.02
7/6/2015	<0.02	<0.02				
7/7/2015			<0.02	<0.02	<0.02	<0.02
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)	<0.02	<0.02		
3/3/2016					<0.02	<0.02
7/8/2016	<0.02		0.0029 (J)			
7/11/2016		<0.02		<0.02	<0.02	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)	<0.02		<0.02
9/18/2017					<0.02	
9/19/2017	0.0018 (J)	<0.02				
3/12/2018				<0.02	<0.02	
3/13/2018	0.0021 (J)	<0.02	0.0023 (J)			0.0029 (J)
9/6/2018			<0.02			
9/7/2018				<0.02	<0.02	<0.02
9/11/2018	<0.02	<0.02				
3/7/2019			<0.02		<0.02	<0.02
3/8/2019	<0.02			<0.02		
3/12/2019		<0.02				
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)
9/4/2020				<0.02	<0.02	<0.02
9/8/2020	<0.02	<0.02	<0.02			
2/25/2021			<0.02	<0.02	<0.02	<0.02
2/26/2021	<0.02	<0.02				

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	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	<0.02	0.0039	0.0026
4/23/2015	0.072	0.0047	0.0035	<0.02		
4/24/2015					0.0034	0.0017 (J)
7/29/2015	0.072	0.0039	0.0062	<0.02	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)	<0.02	<0.02	
3/8/2016						0.557 (o)
7/13/2016	0.0709		0.0031 (J)	0.0013 (J)		
7/14/2016		0.0111			<0.02	<0.02
3/20/2017	0.0465			<0.02		
3/21/2017		<0.02			<0.02	
3/22/2017						<0.02
3/23/2017			<0.02			
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)	<0.02	<0.02	<0.02
9/7/2018	<0.02			<0.02		
9/10/2018					<0.02	<0.02
9/11/2018		<0.02	<0.02			
3/11/2019	0.024					
3/12/2019		0.0038 (J)	<0.02	<0.02	<0.02	<0.02
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)			
9/4/2020						<0.02
9/9/2020	0.037	<0.02	<0.02	<0.02	<0.02	
2/26/2021			<0.02	<0.02	<0.02	
3/9/2021	0.025					<0.02
3/10/2021		<0.02				

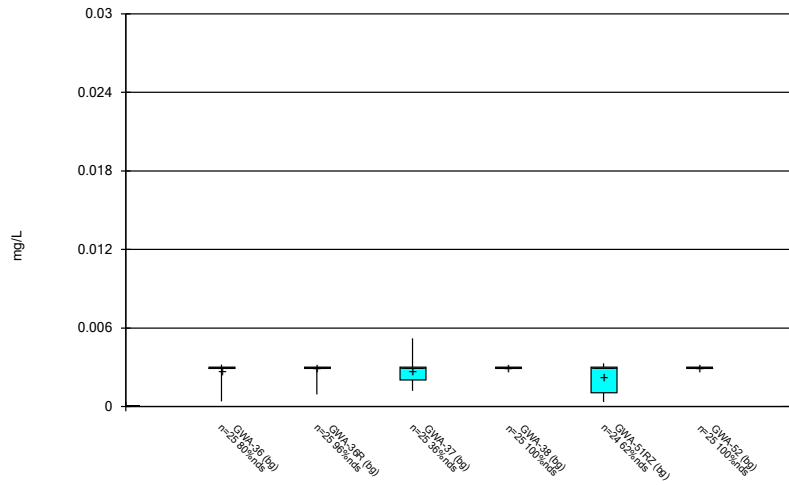
Time Series

Constituent: Zinc (mg/L) Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&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				<0.02	0.0011 (J)
11/5/2014	0.0046	0.0038	0.0022 (J)		
11/10/2014				<0.02	0.0028
3/4/2015	0.0029	0.002 (J)	0.0033	<0.02	<0.02
3/19/2015	0.0027	0.0025			
3/20/2015			0.002 (J)	<0.02	<0.02
4/8/2015	0.0039	0.0018 (J)	0.004	0.0016 (J)	
4/9/2015					<0.02
4/23/2015			0.002 (J)	<0.02	<0.02
4/24/2015	0.0035	0.0016 (J)			
7/30/2015	0.0027	<0.02	<0.02	<0.02	<0.02
3/4/2016				0.00374 (J)	
3/7/2016		<0.02			
3/8/2016	0.00273 (J)				0.00198 (J)
3/9/2016			<0.02		
7/12/2016				<0.02	
7/14/2016		<0.02			
7/15/2016	<0.02		<0.02		
7/18/2016					<0.02
3/16/2017					0.0026 (J)
3/20/2017		0.0075 (J)		<0.02	
3/21/2017	<0.02				
3/22/2017			<0.02		
9/19/2017	0.0022 (J)	<0.02		0.0028 (J)	<0.02
9/21/2017			0.0034 (J)		
3/13/2018		<0.02		0.0068 (J)	<0.02
3/14/2018	0.0049 (J)		<0.02		
9/7/2018		<0.02			
9/10/2018	<0.02				
9/11/2018			<0.02	<0.02	<0.02
3/8/2019				<0.02	<0.02
3/11/2019	0.0034 (J)	0.0021 (J)			
3/12/2019			<0.02		
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)		
9/4/2020					<0.02
9/8/2020	0.0063 (J)	0.0037 (J)			
9/9/2020			<0.02	0.0048 (J)	
3/9/2021	<0.02	<0.02		0.0063 (J)	<0.02
3/10/2021			<0.02		

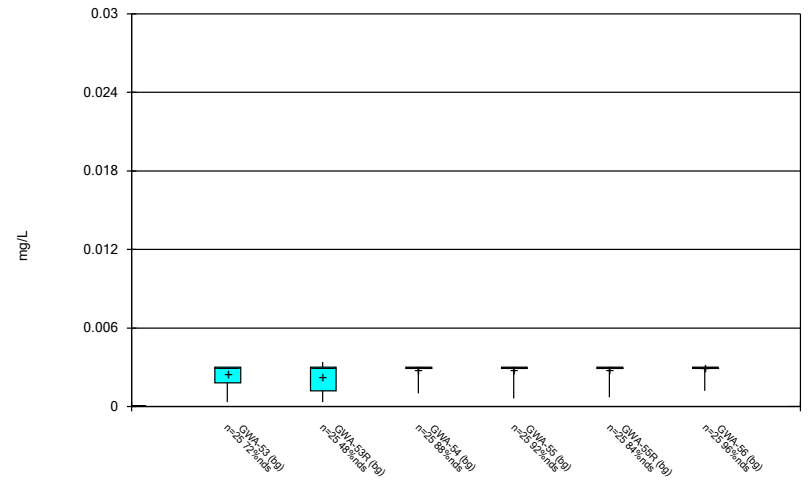
FIGURE B.

Box & Whiskers Plot



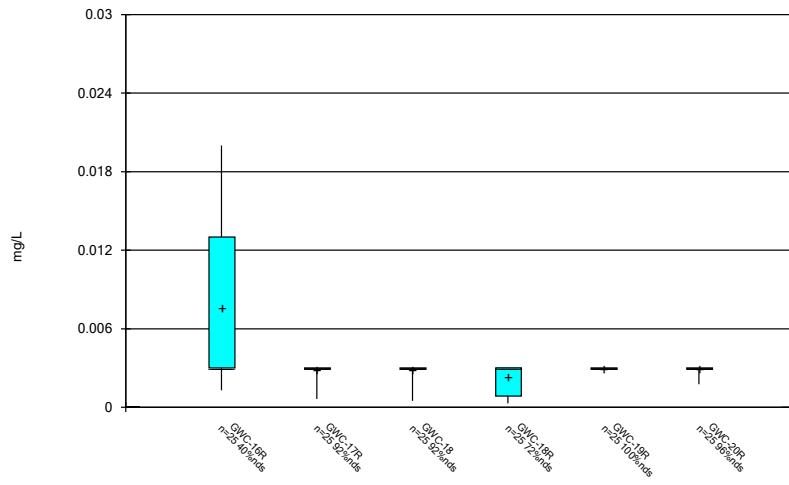
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



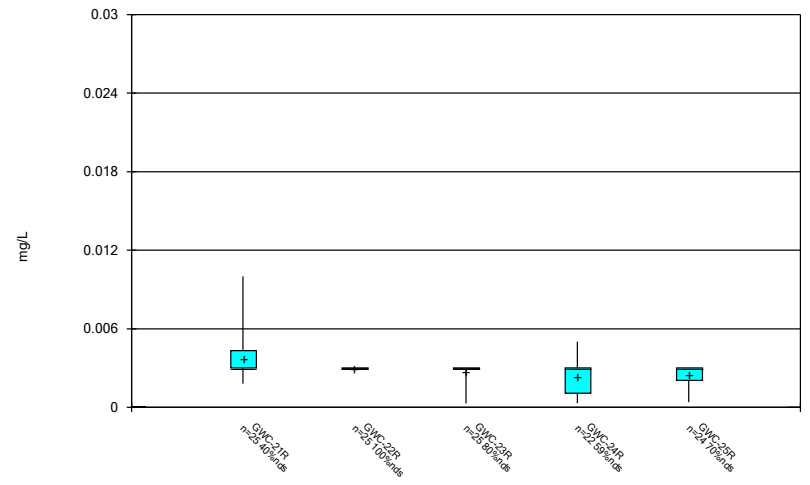
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



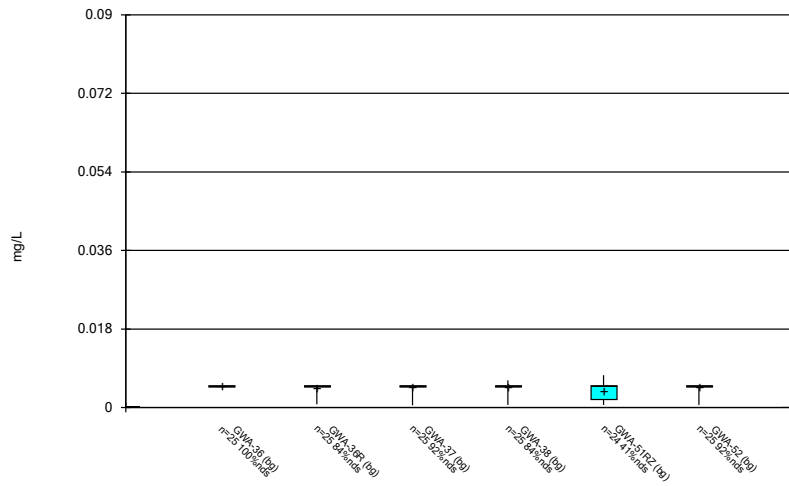
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



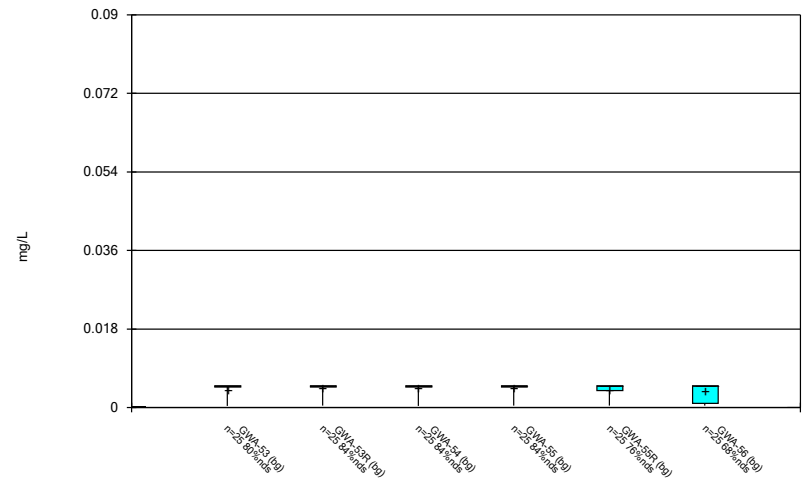
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



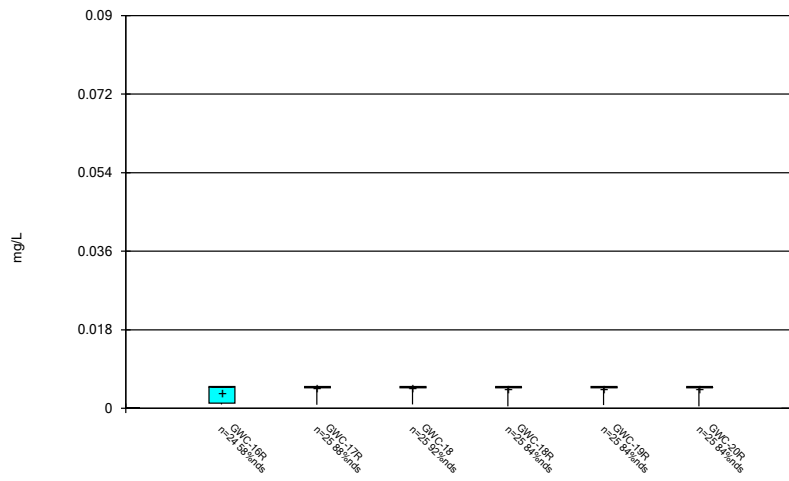
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



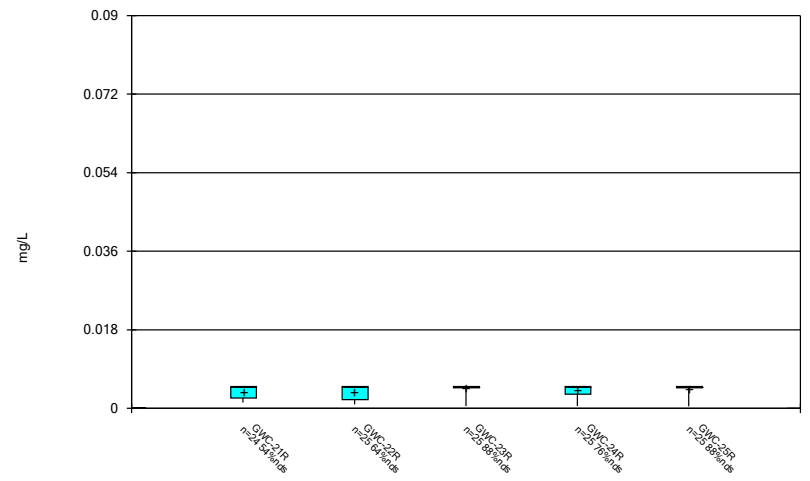
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



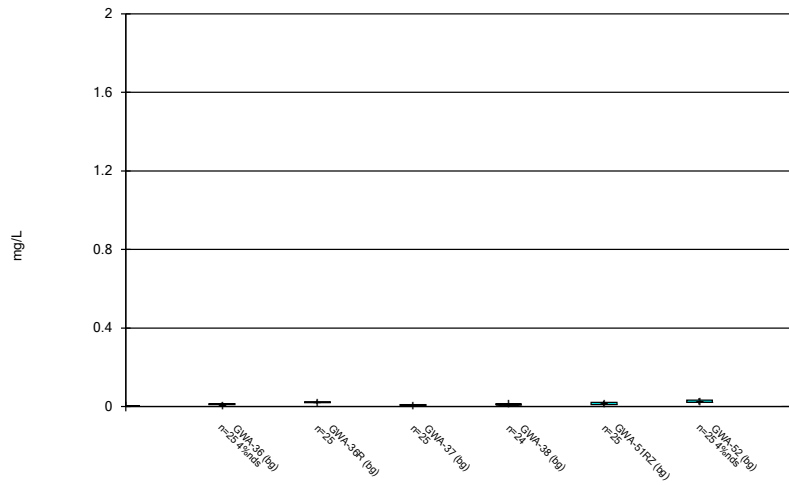
Constituent: Arsenic Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



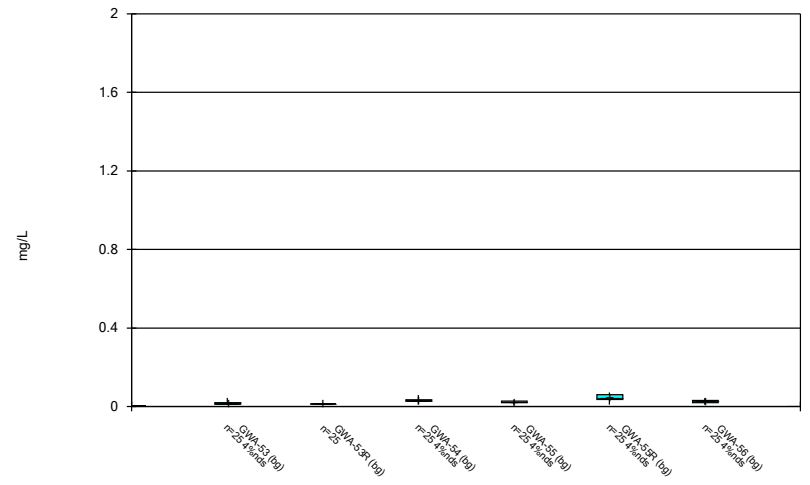
Constituent: Arsenic Analysis Run 5/5/2021 6:39 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



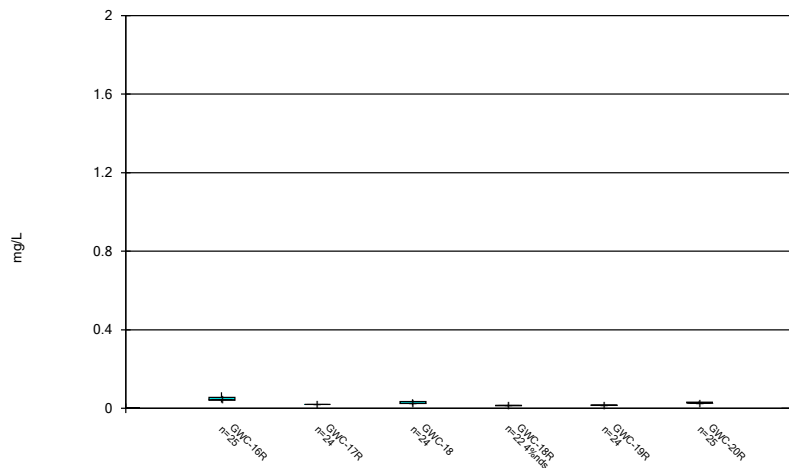
Constituent: Barium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



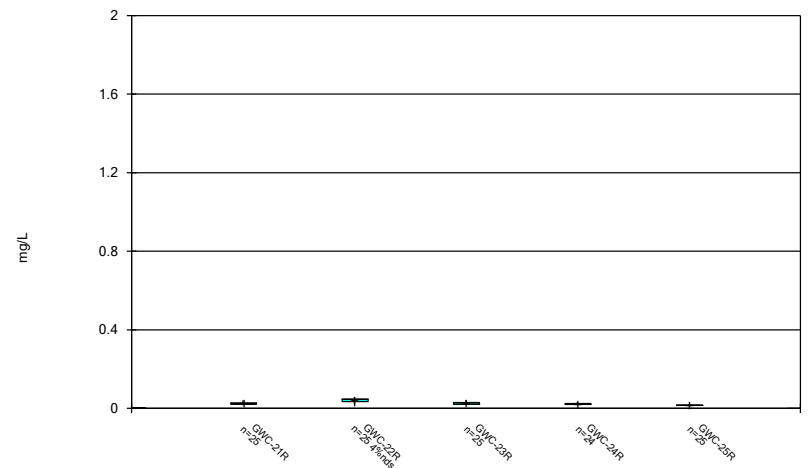
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



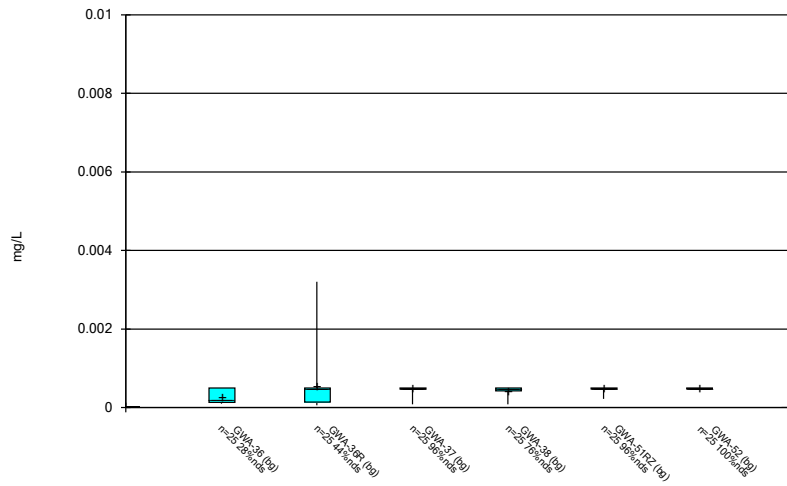
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



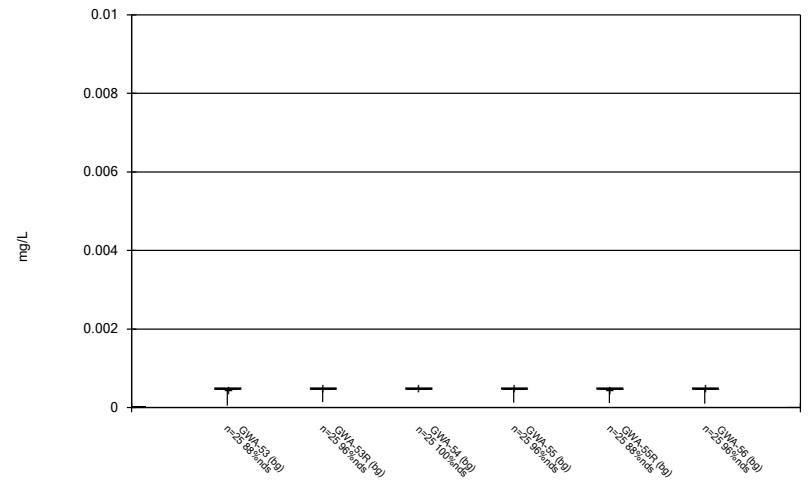
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



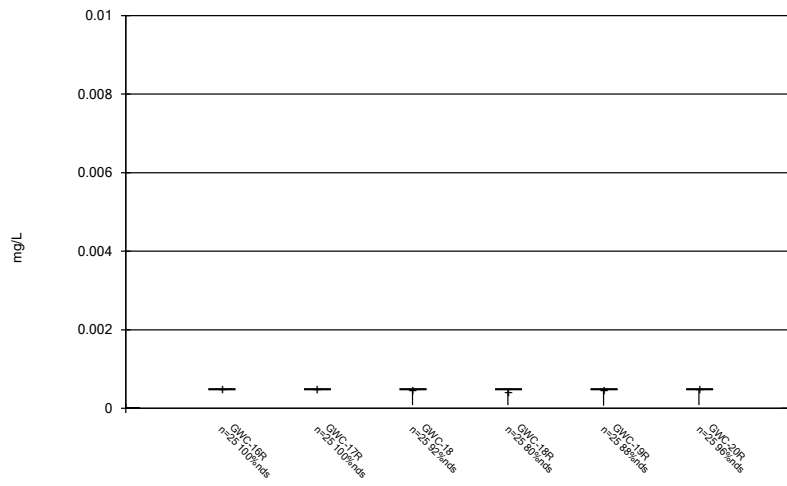
Constituent: Beryllium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



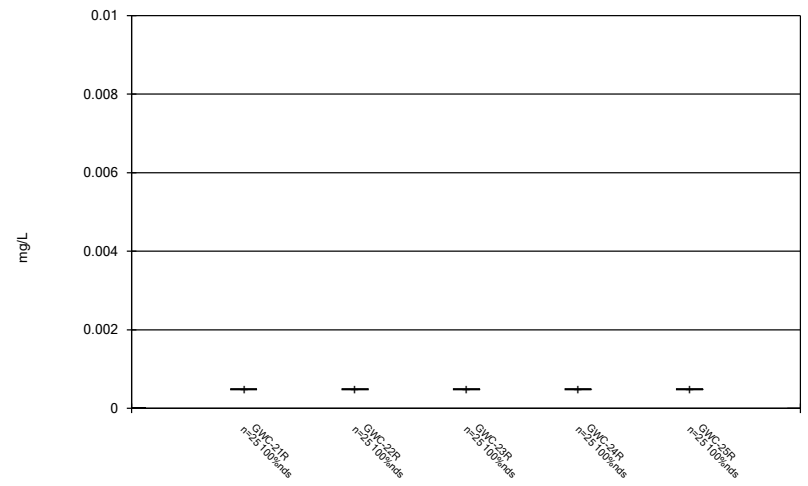
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



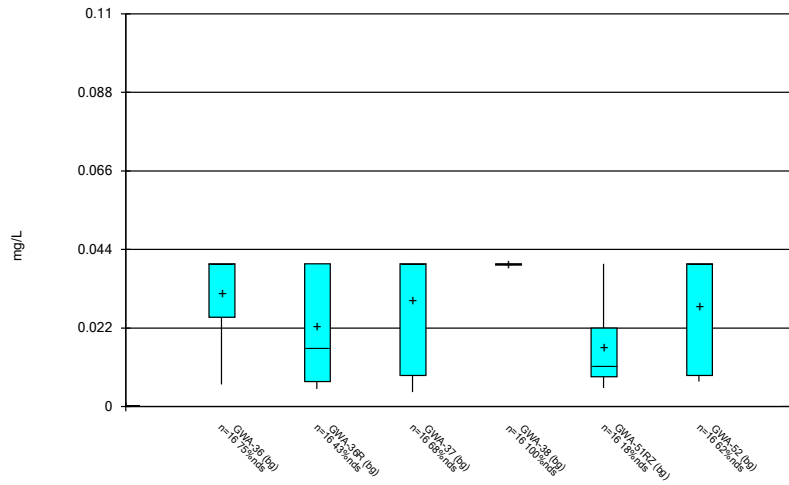
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



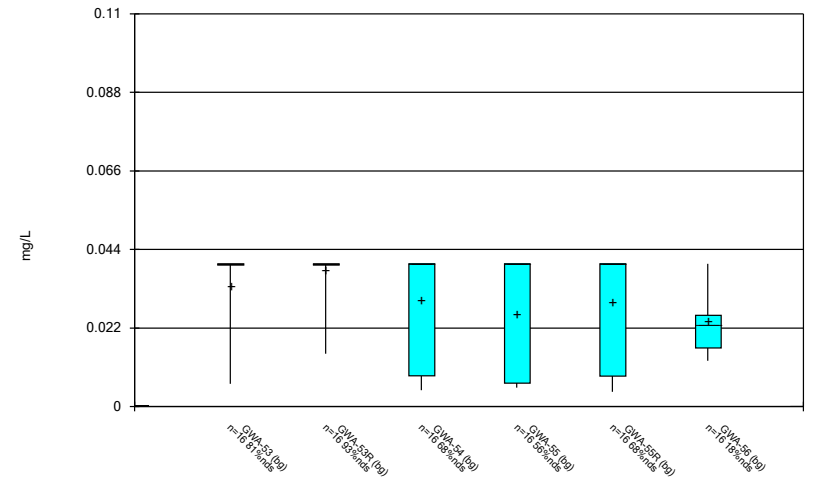
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



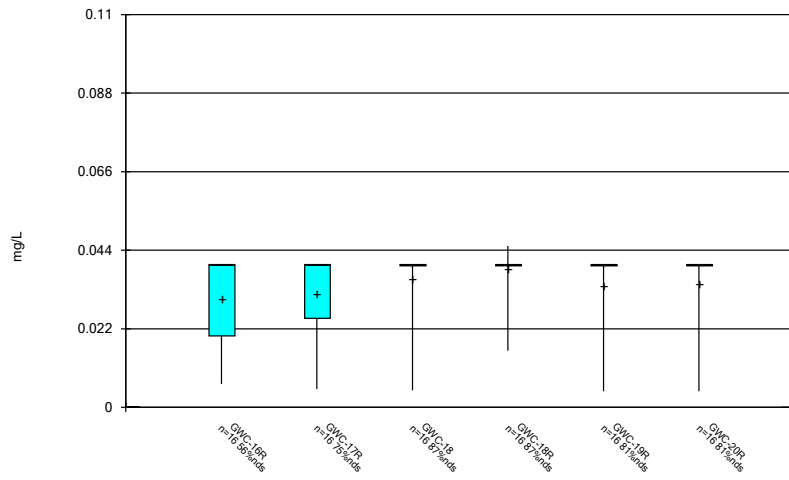
Constituent: Boron Analysis Run 5/5/2021 6:40 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



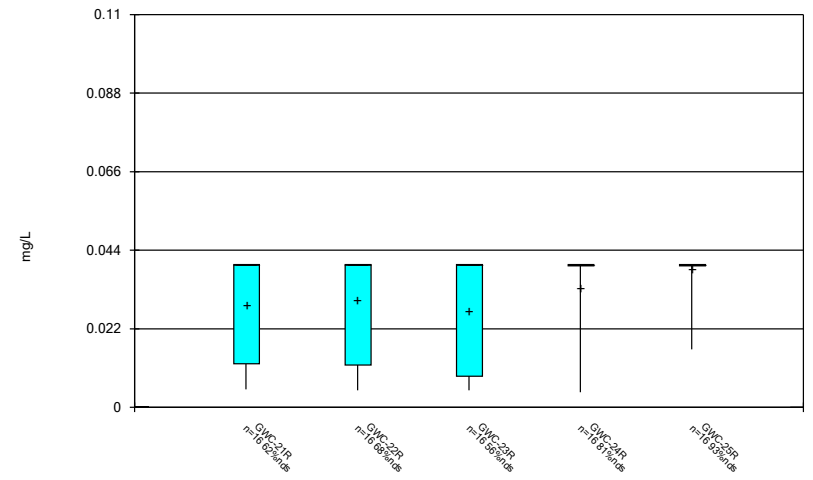
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



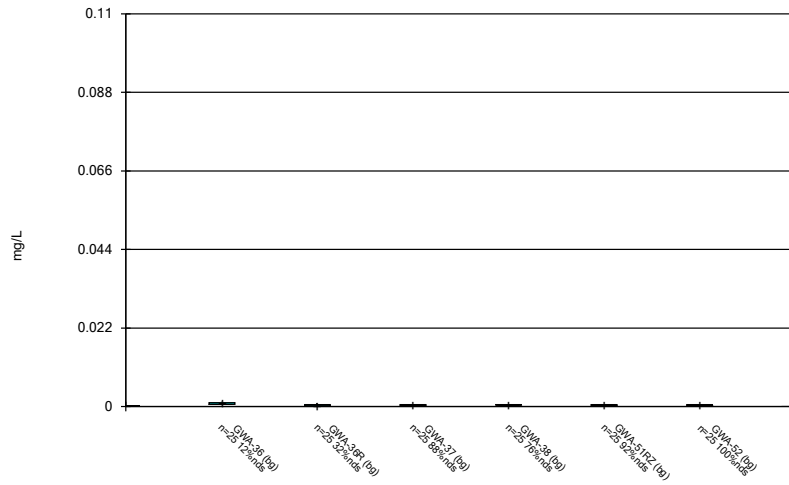
Constituent: Boron Analysis Run 5/5/2021 6:40 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



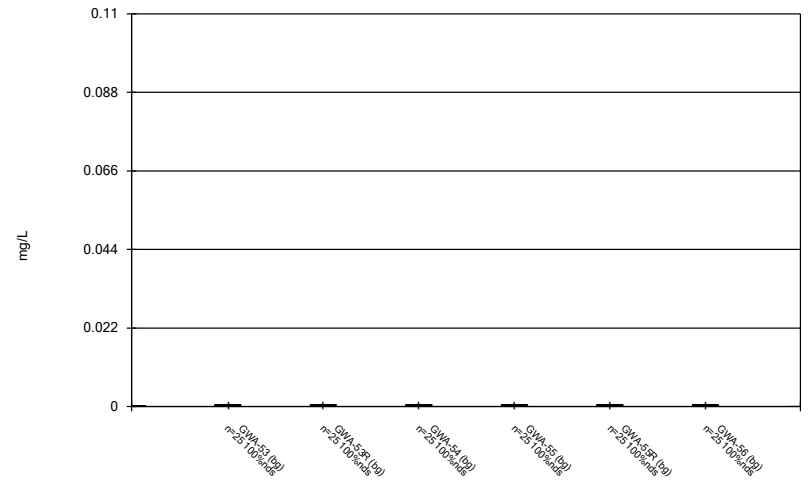
Constituent: Boron Analysis Run 5/5/2021 6:40 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



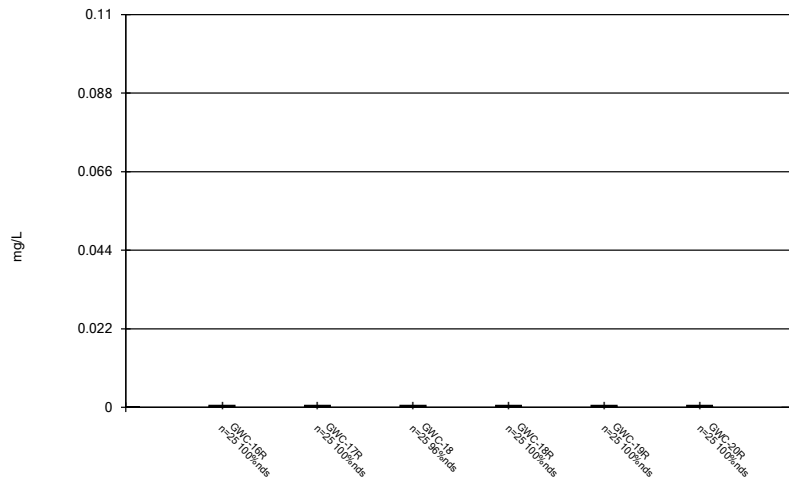
Constituent: Cadmium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



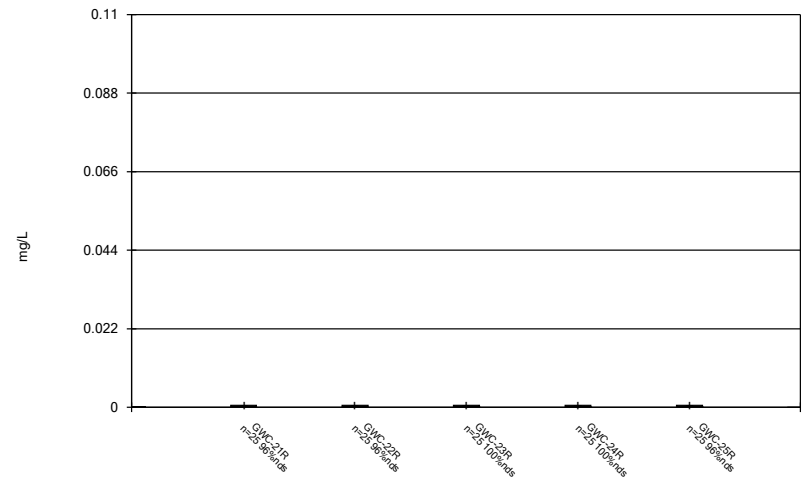
Constituent: Cadmium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



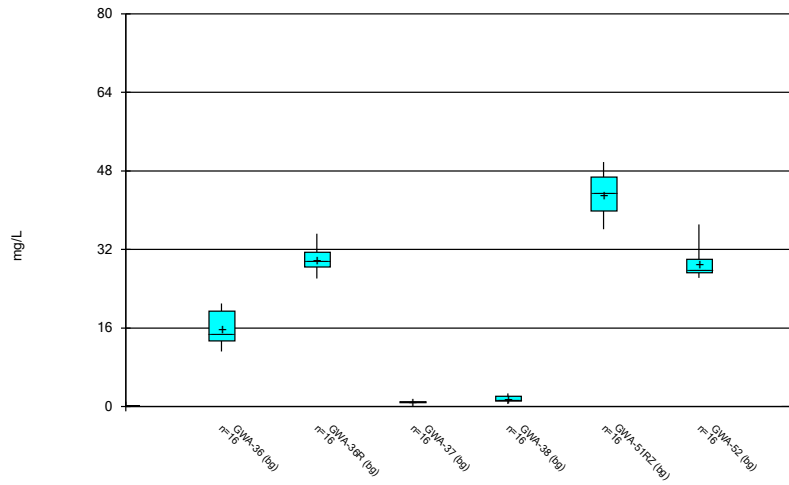
Constituent: Cadmium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



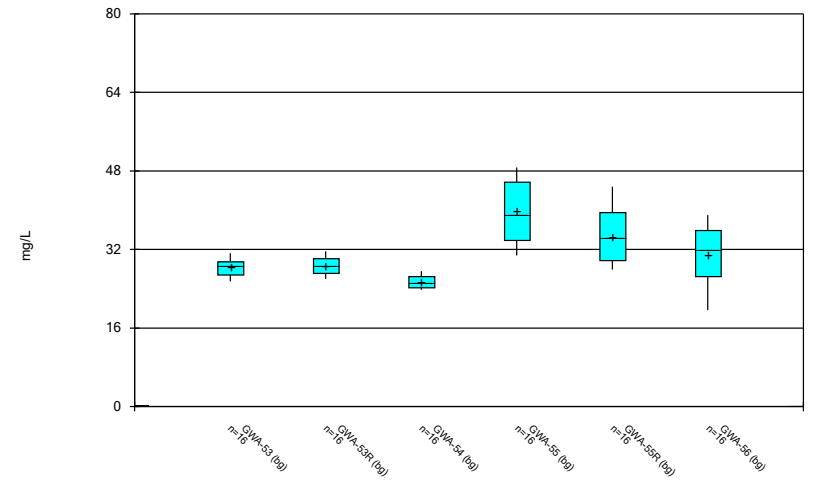
Constituent: Cadmium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



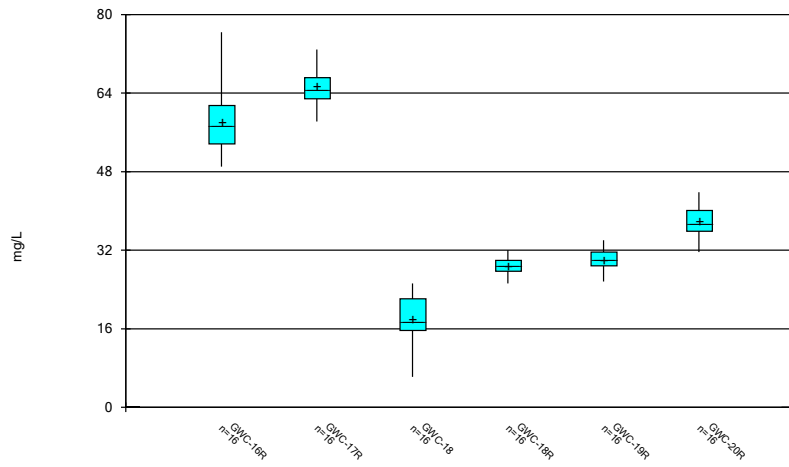
Constituent: Calcium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



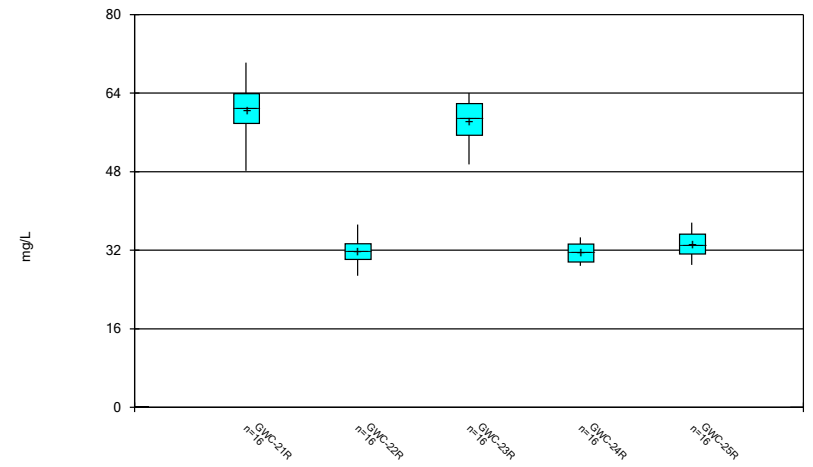
Constituent: Calcium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



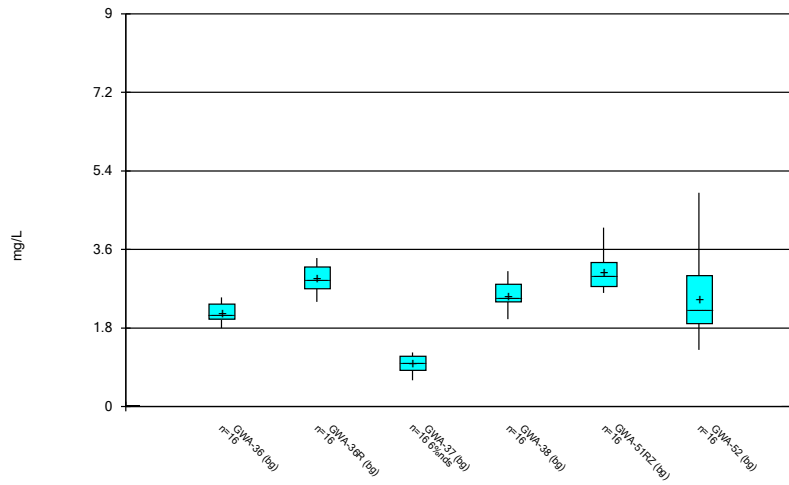
Constituent: Calcium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



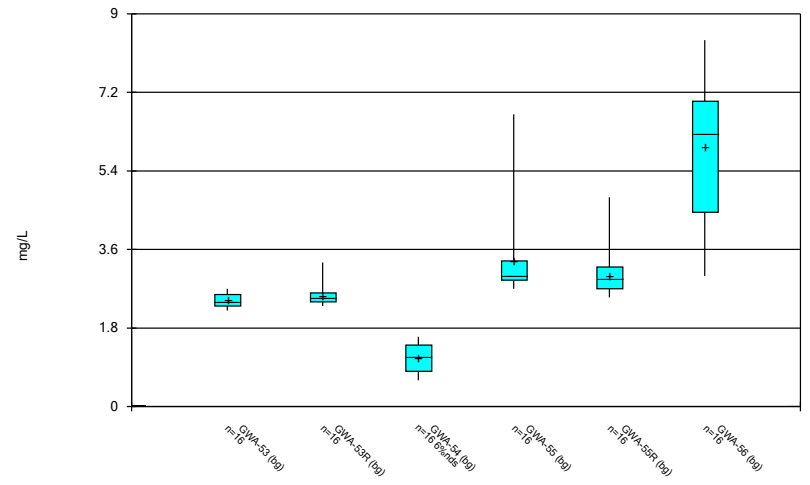
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



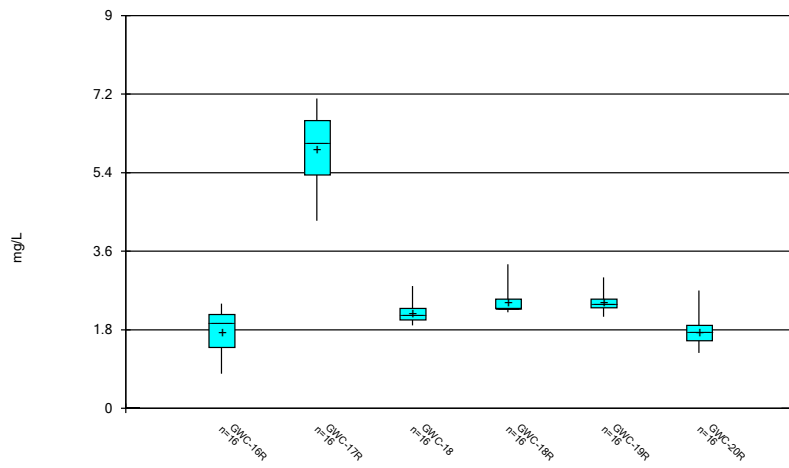
Constituent: Chloride Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



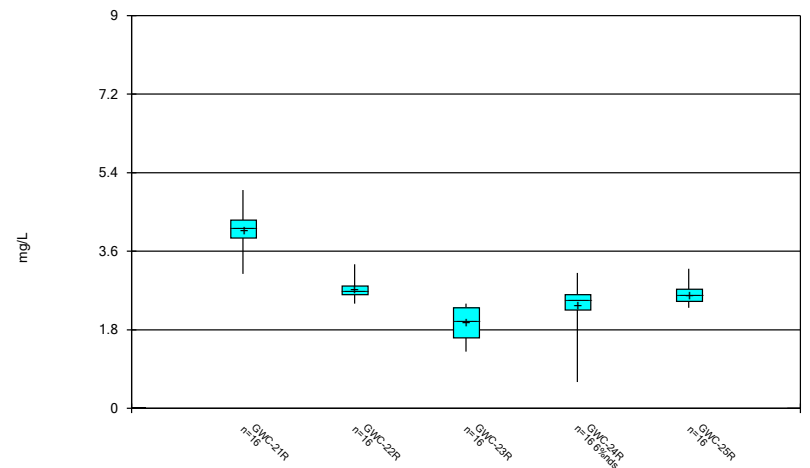
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



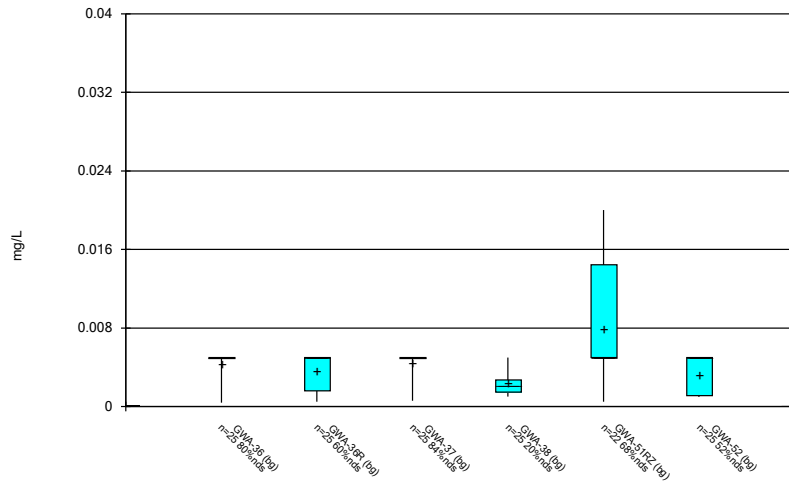
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



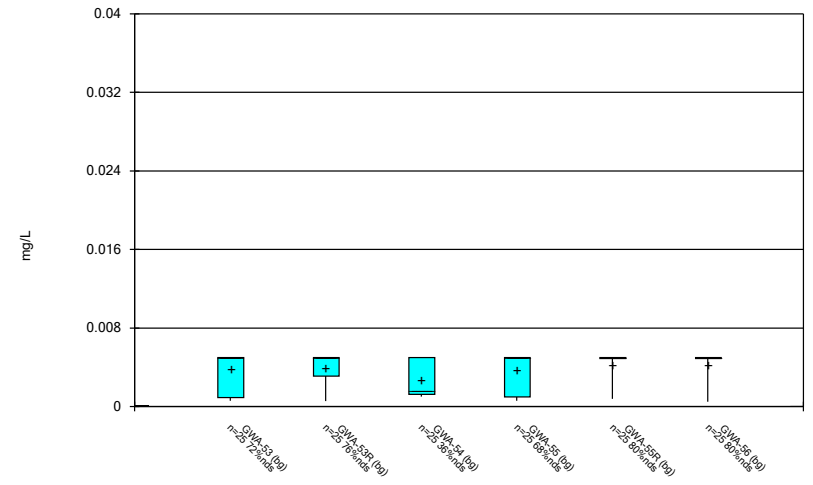
Constituent: Chloride Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



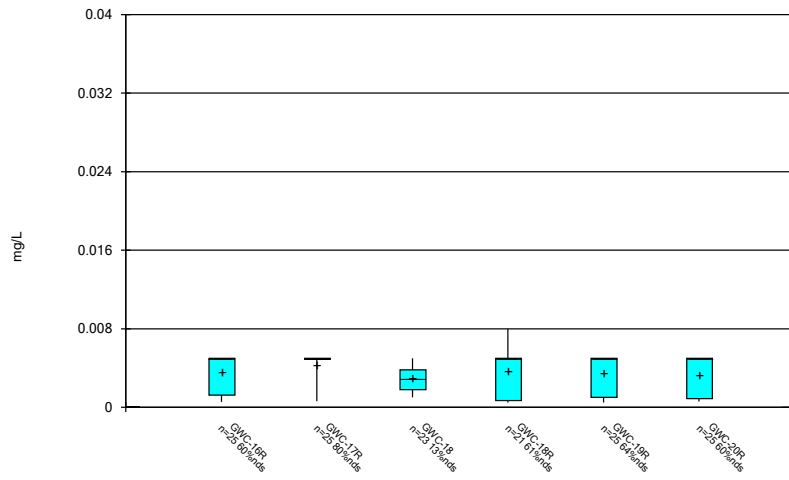
Constituent: Chromium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



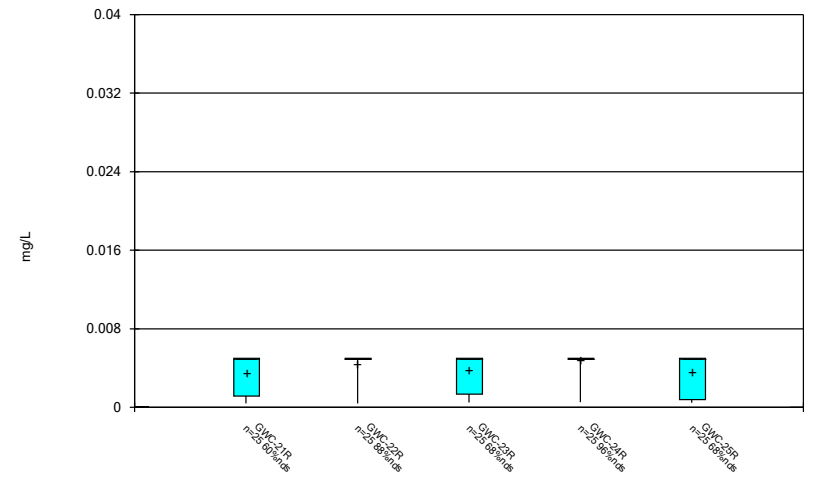
Constituent: Chromium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



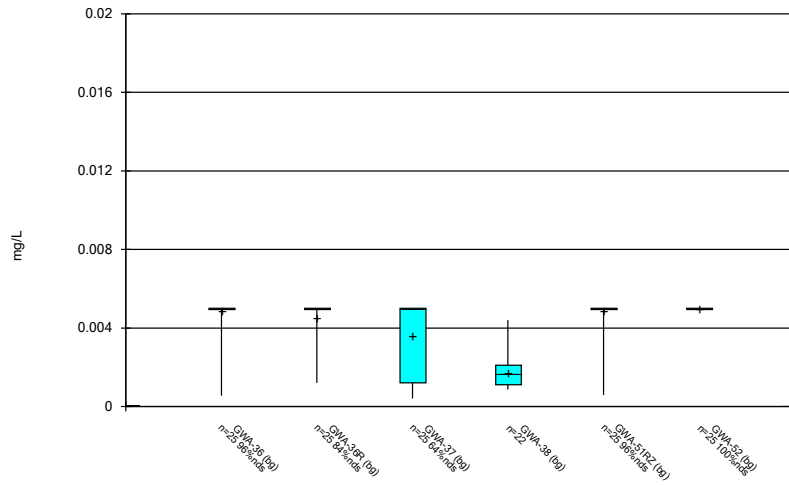
Constituent: Chromium Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



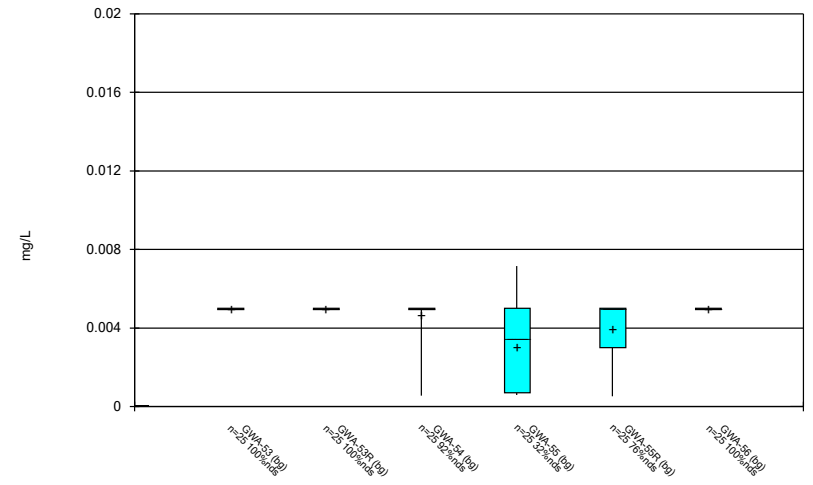
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



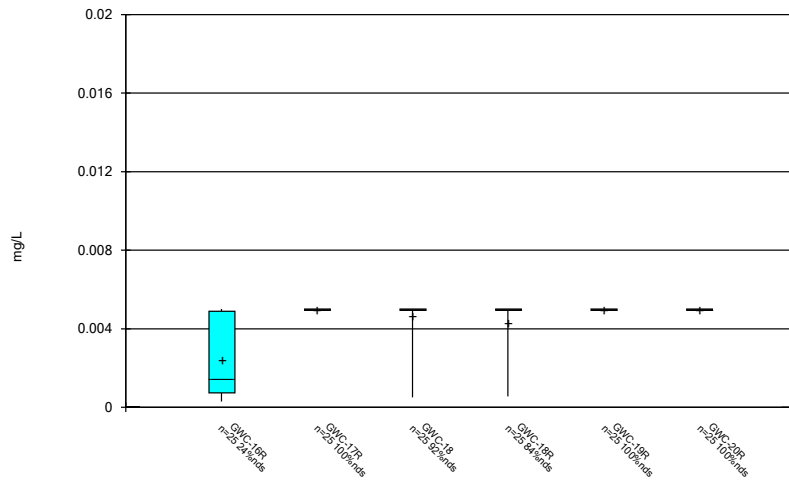
Constituent: Cobalt Analysis Run 5/5/2021 6:40 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



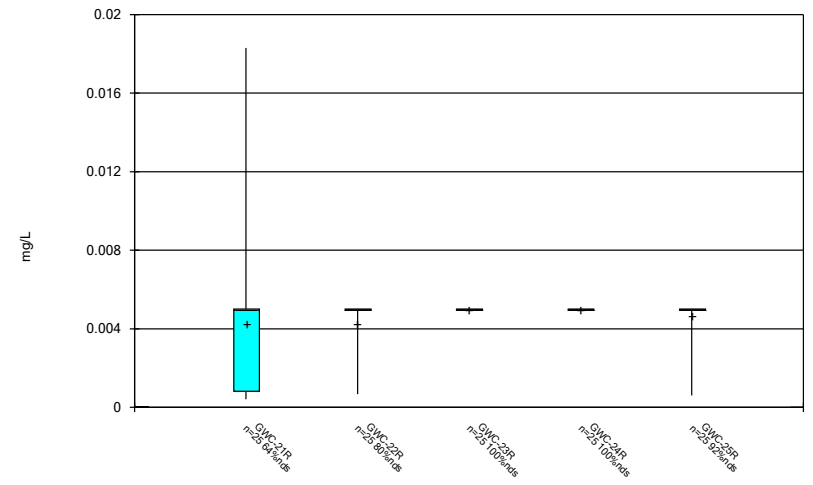
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



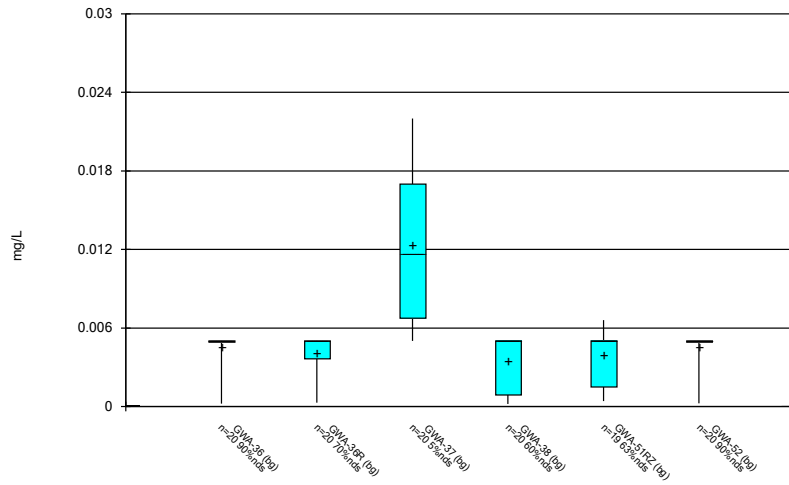
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



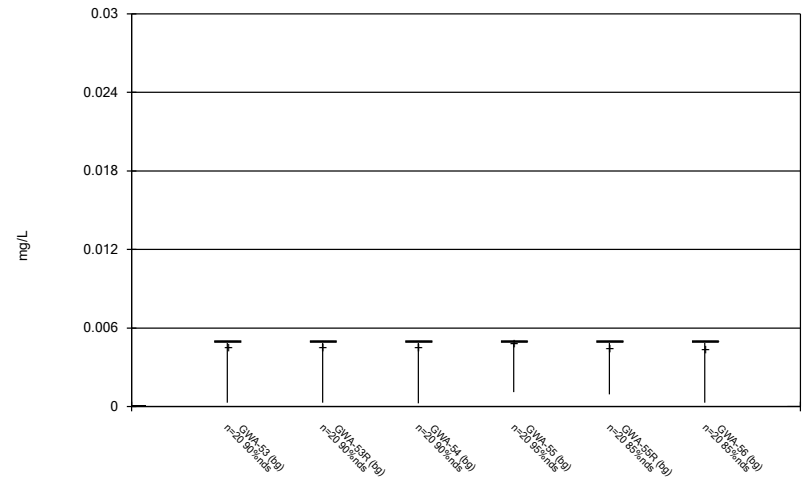
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



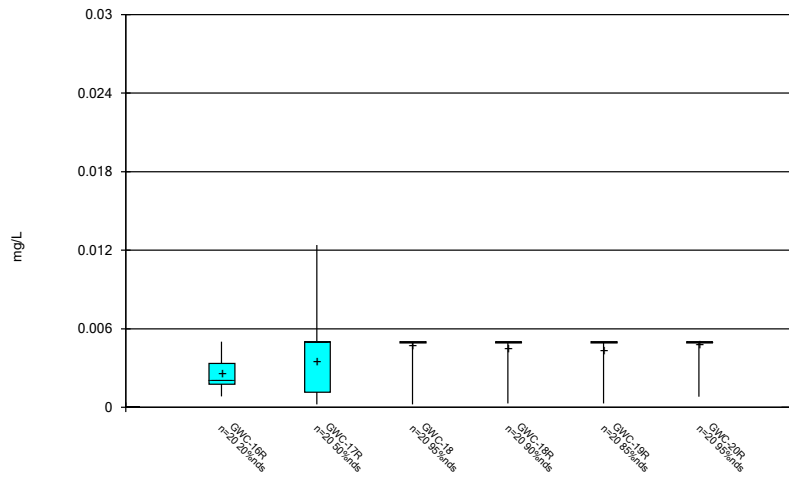
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



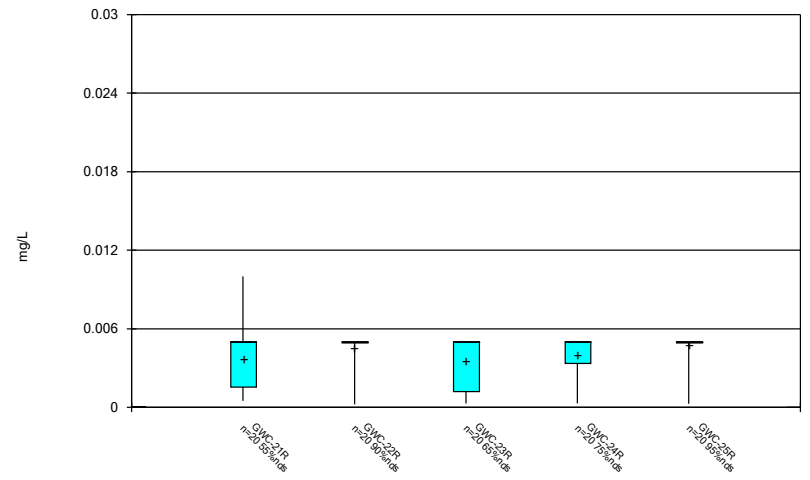
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



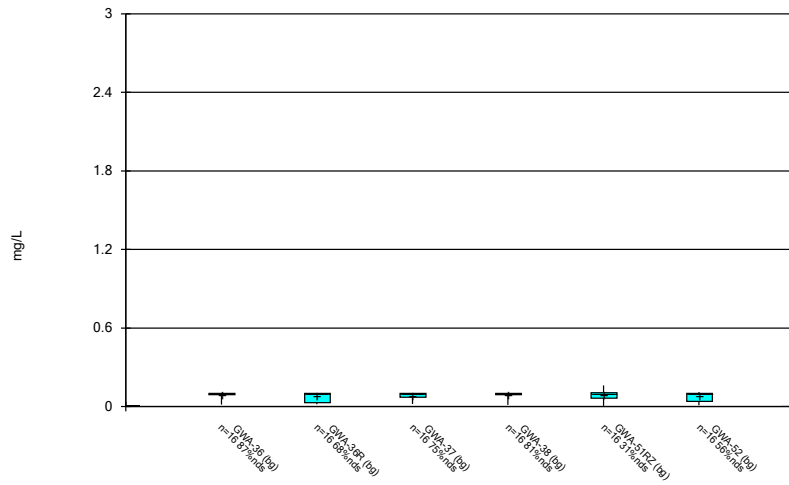
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



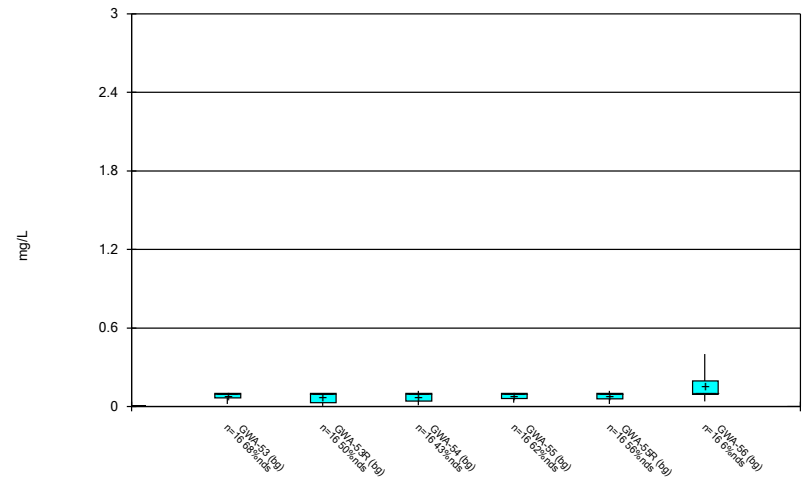
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



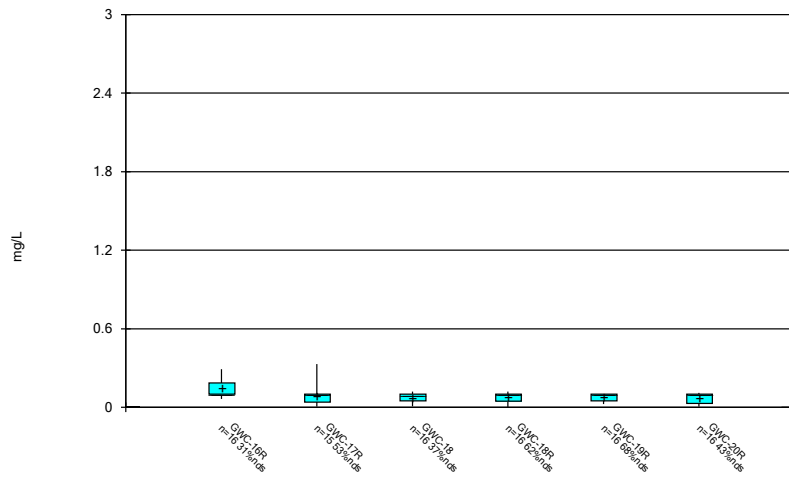
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



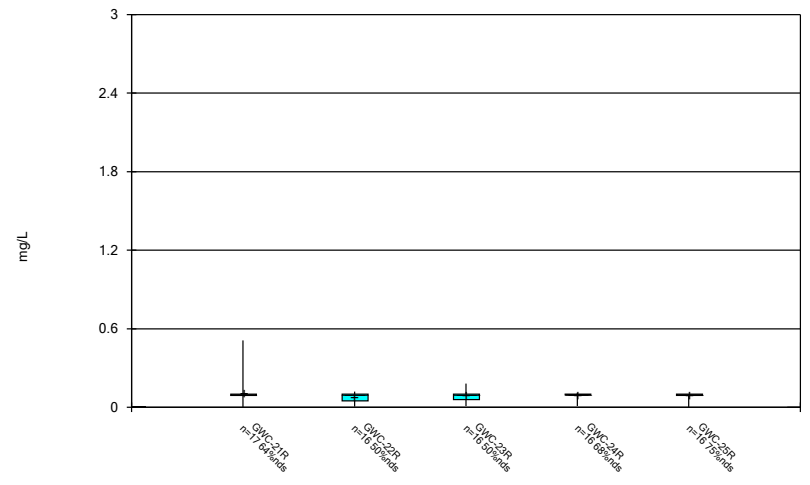
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



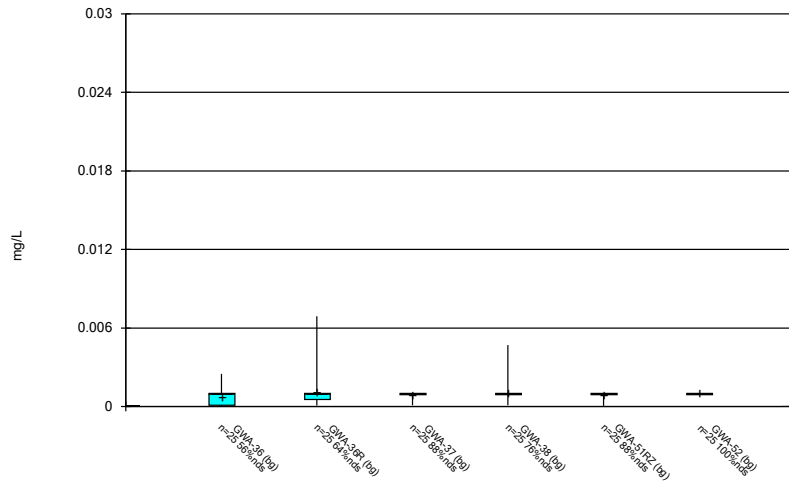
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



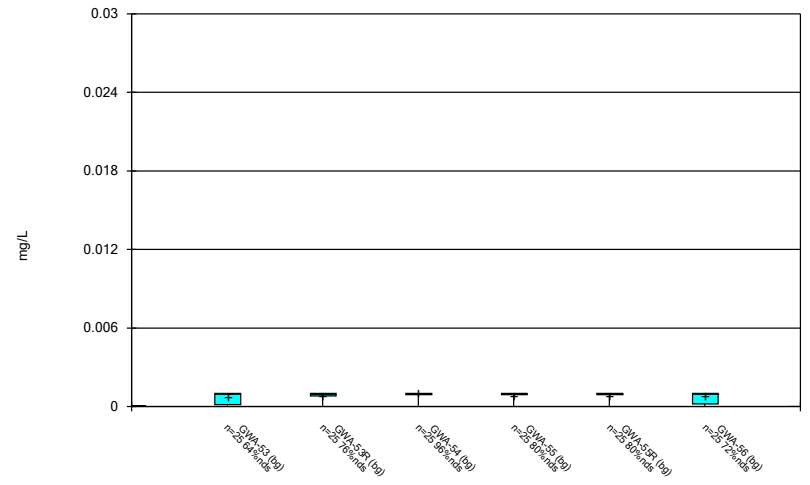
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



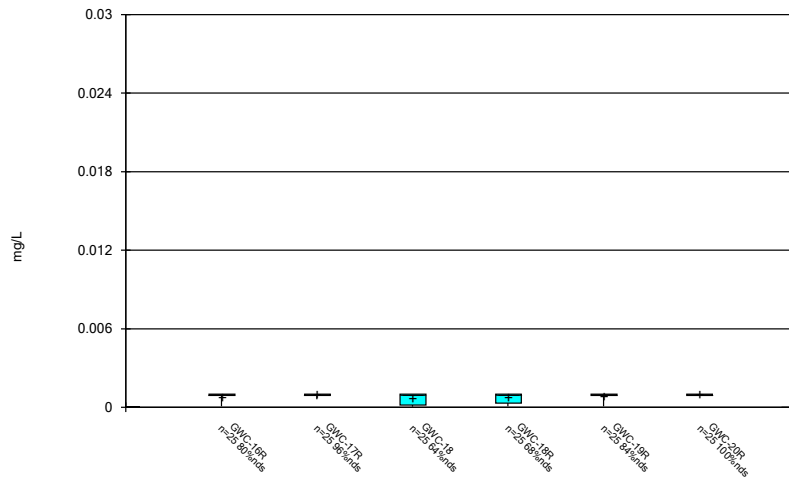
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Box & Whiskers Plot



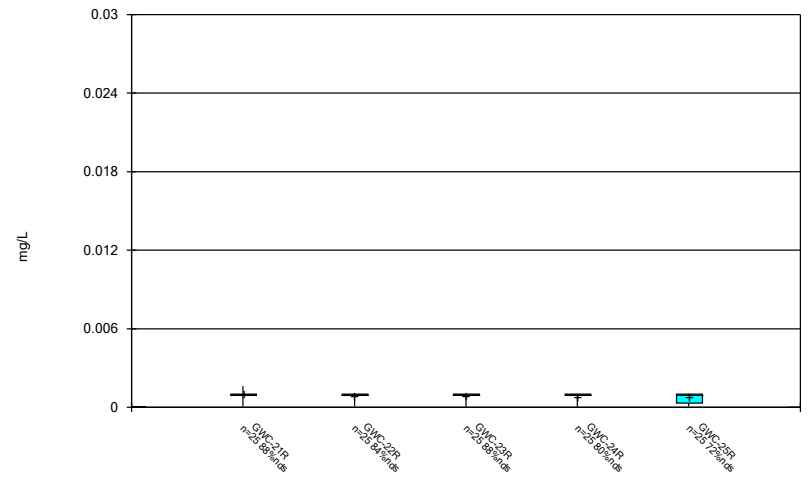
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



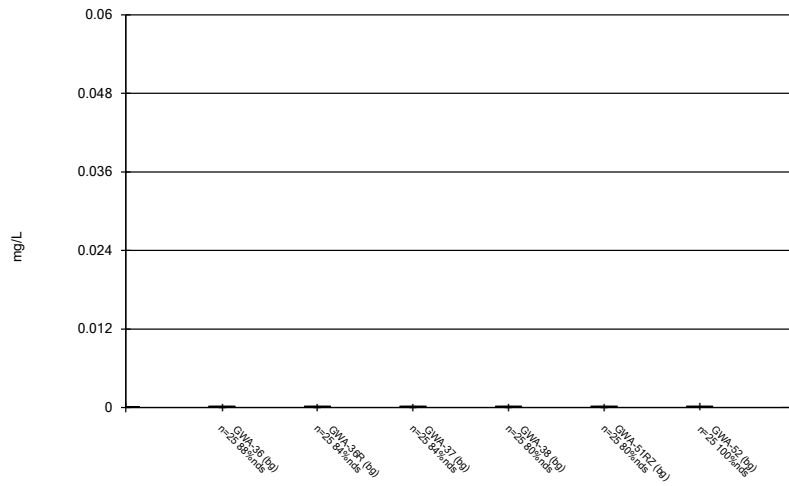
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



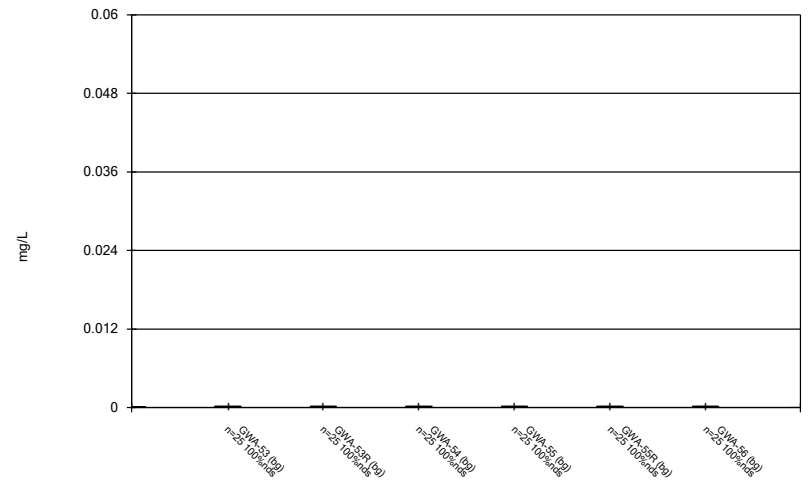
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



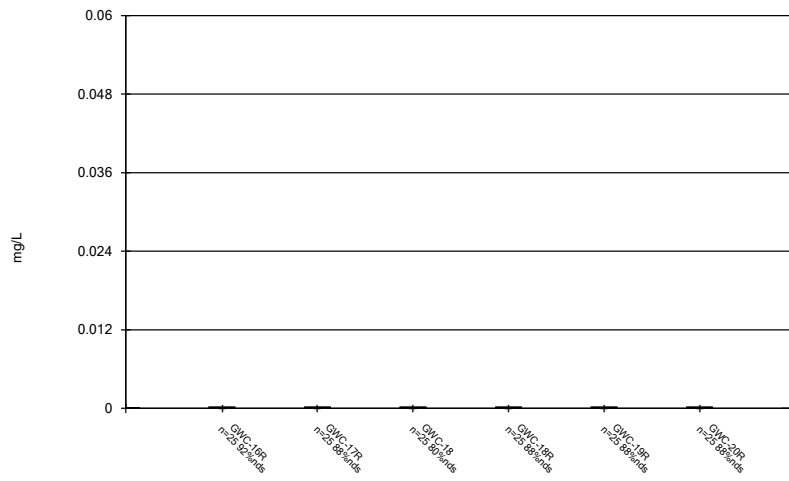
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



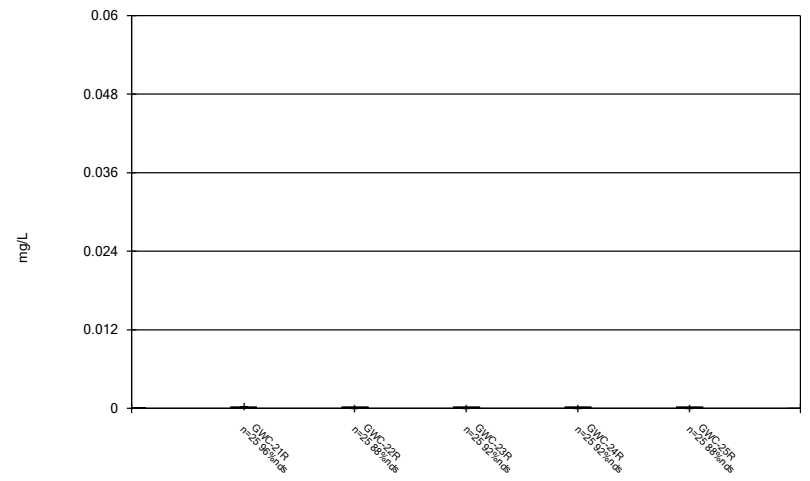
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



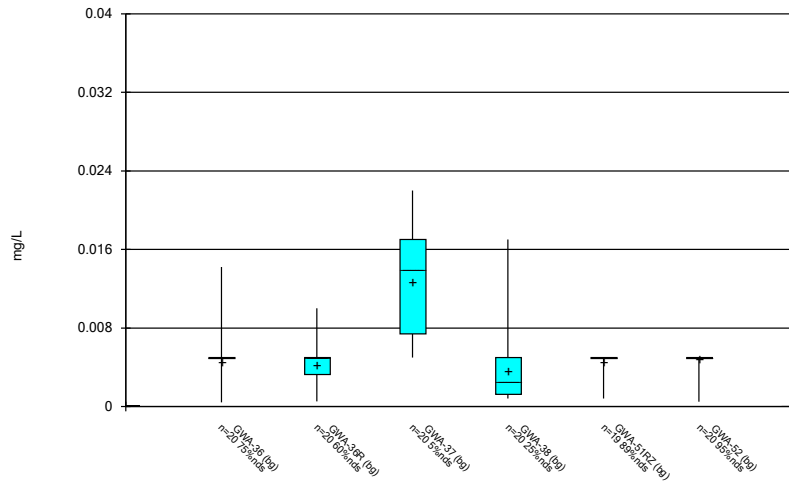
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



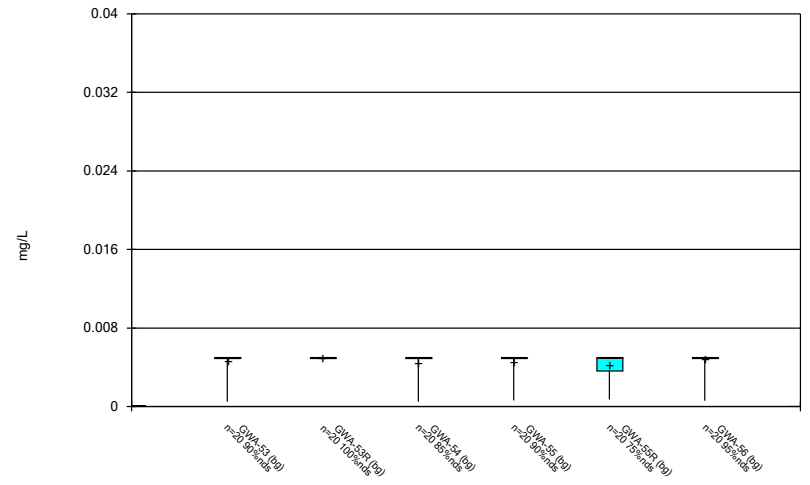
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



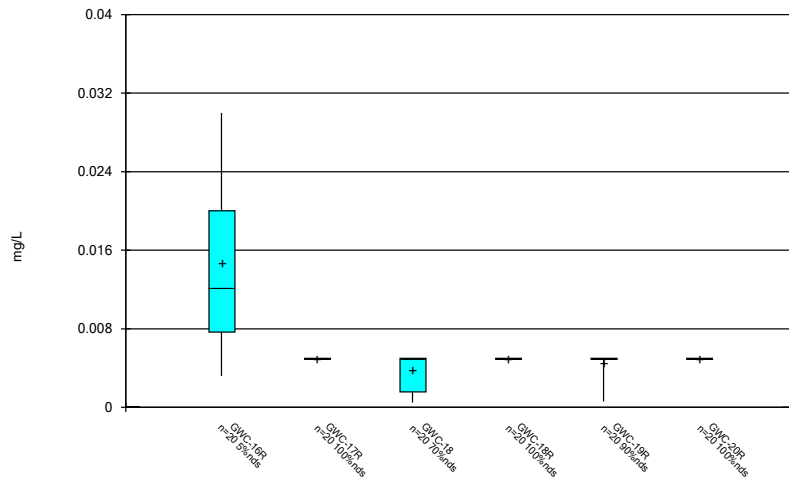
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



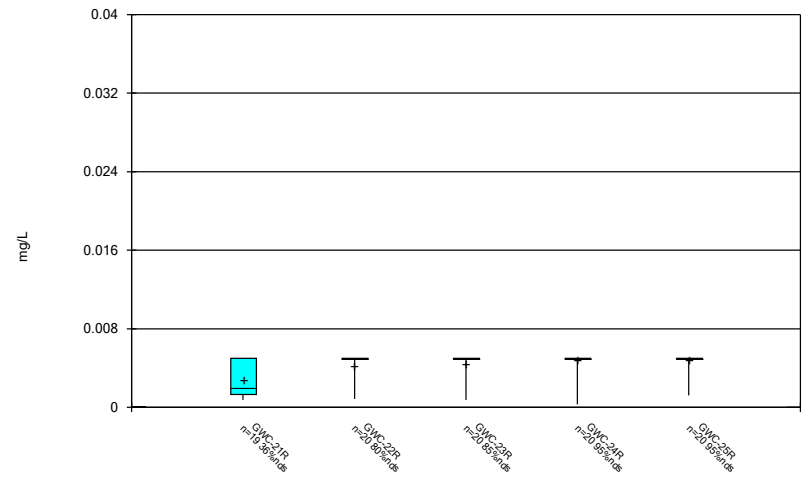
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



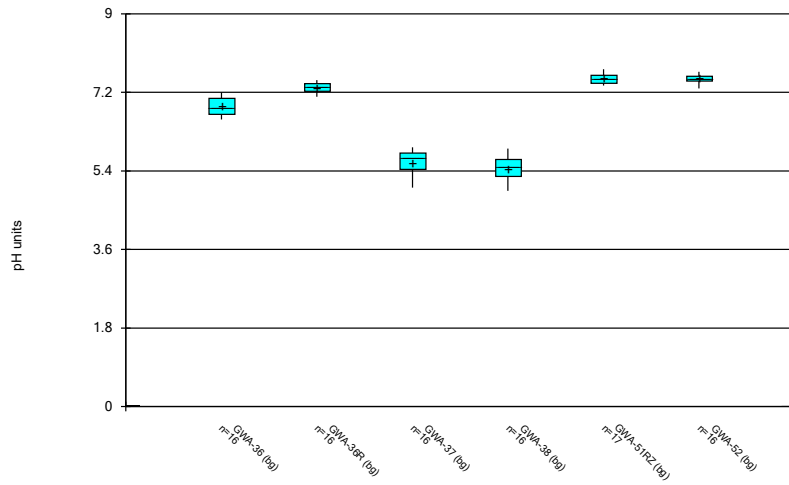
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



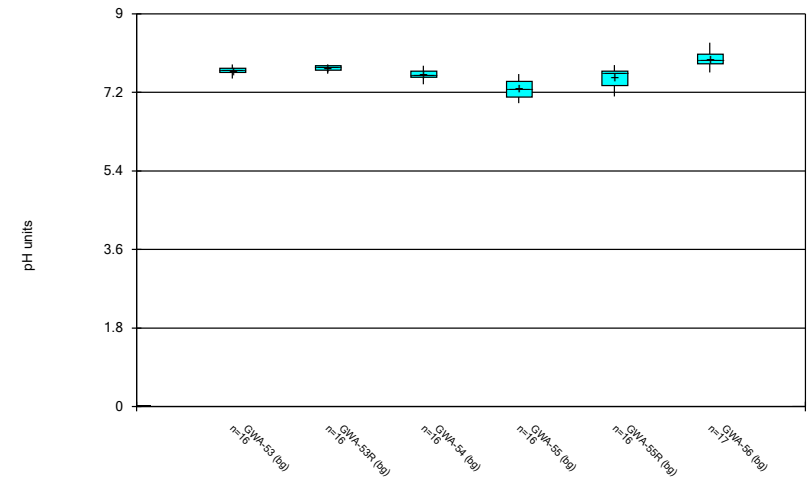
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



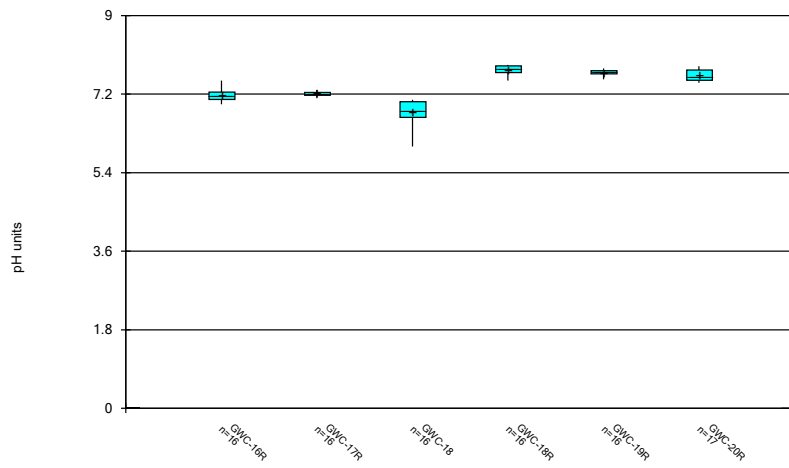
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Box & Whiskers Plot



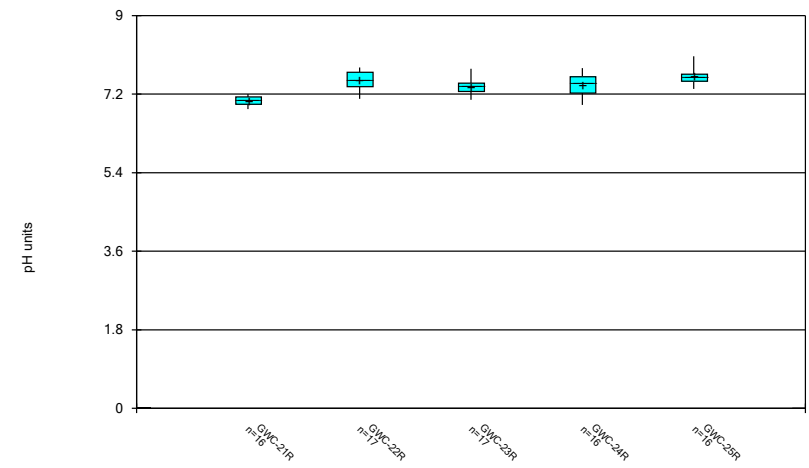
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



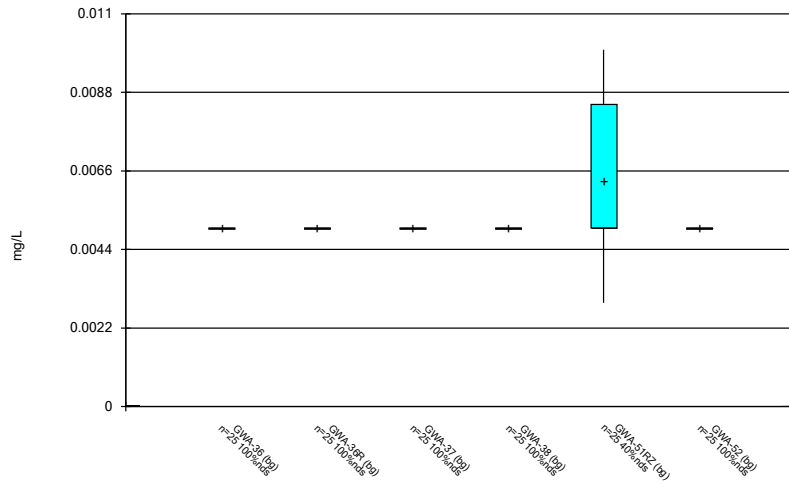
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



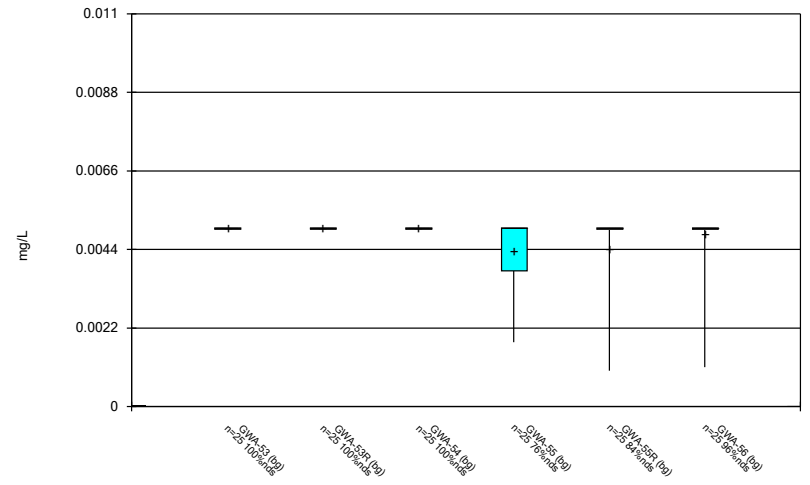
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



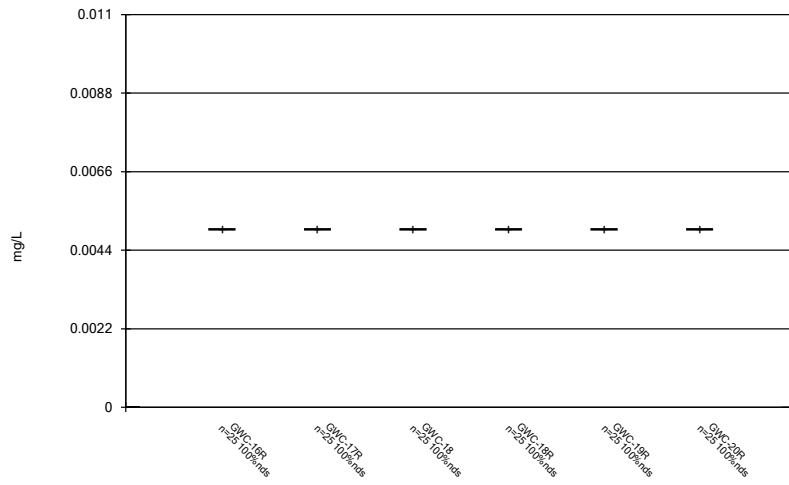
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



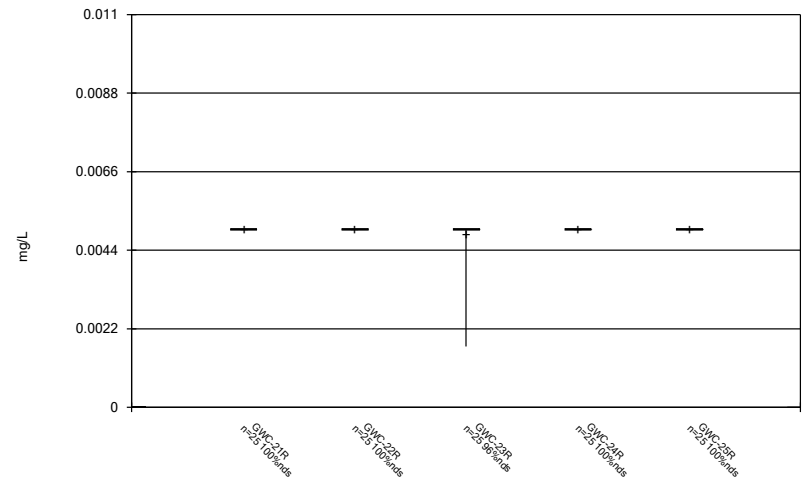
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



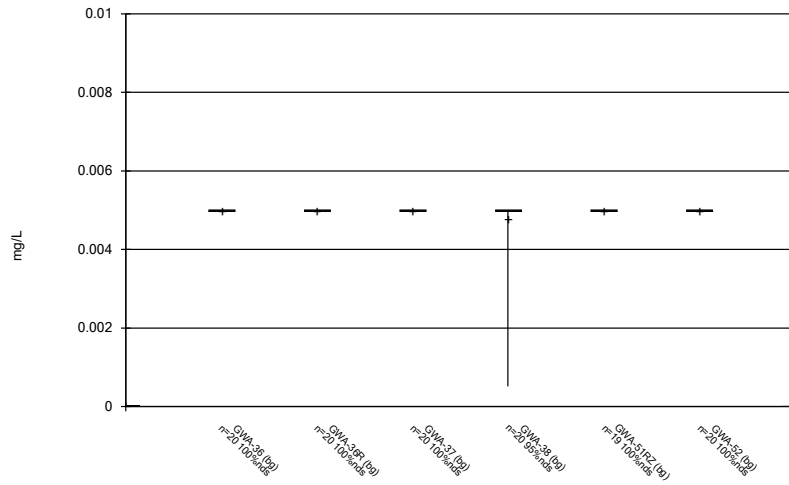
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



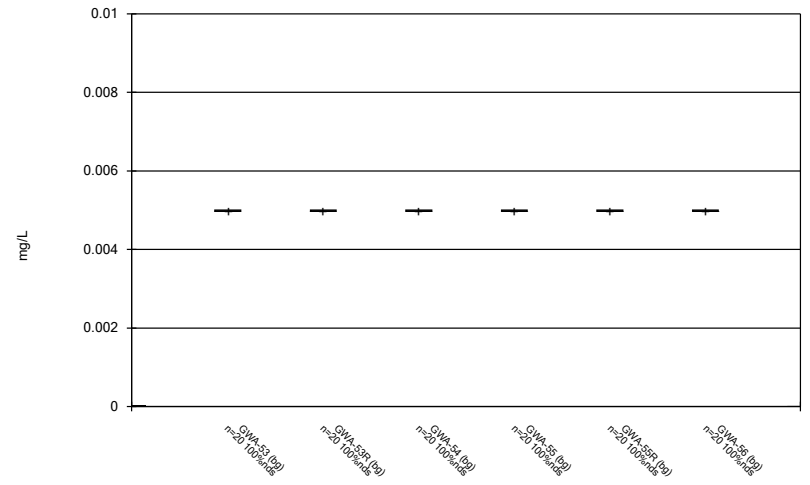
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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



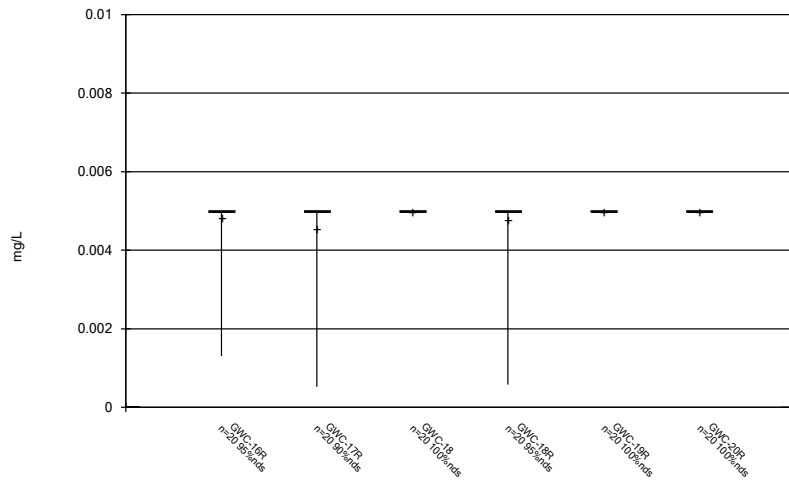
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



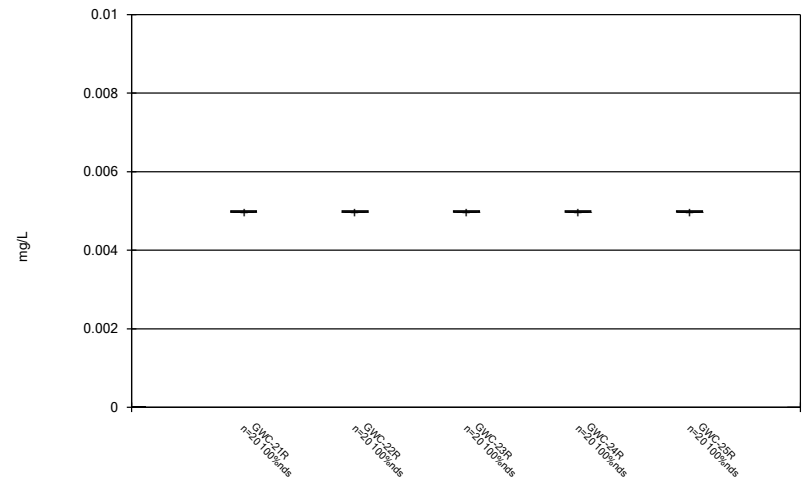
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



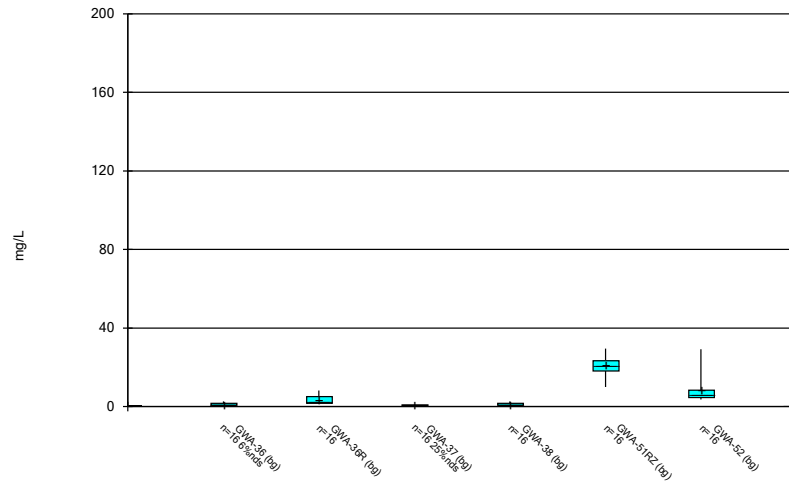
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



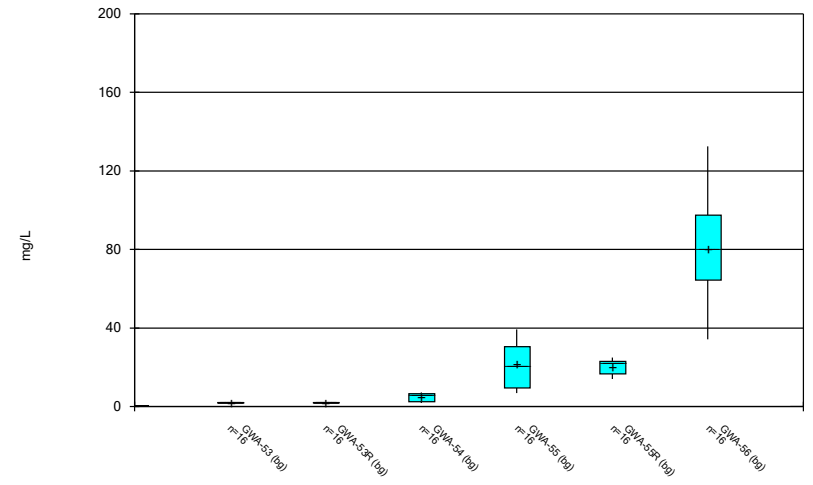
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



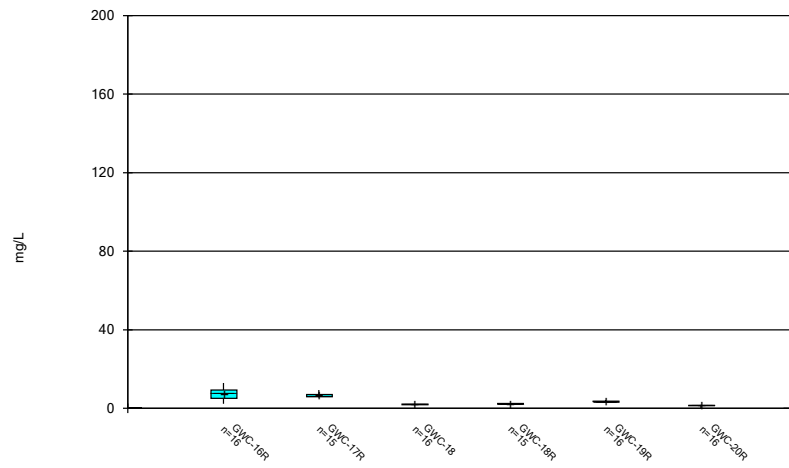
Constituent: Sulfate Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



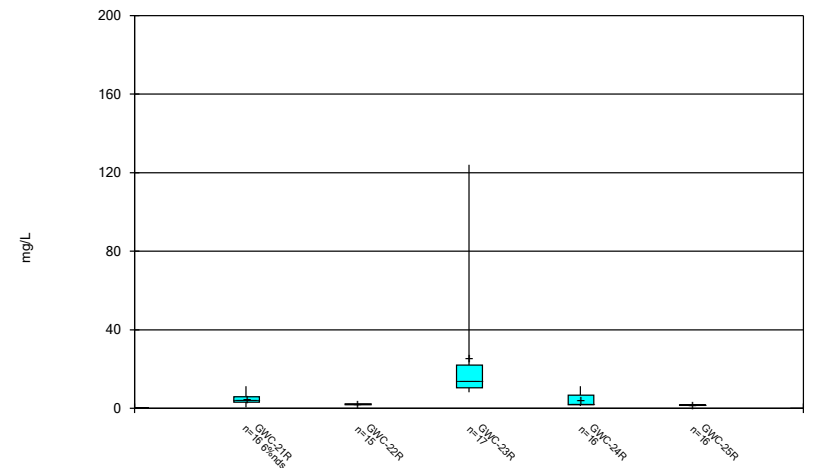
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



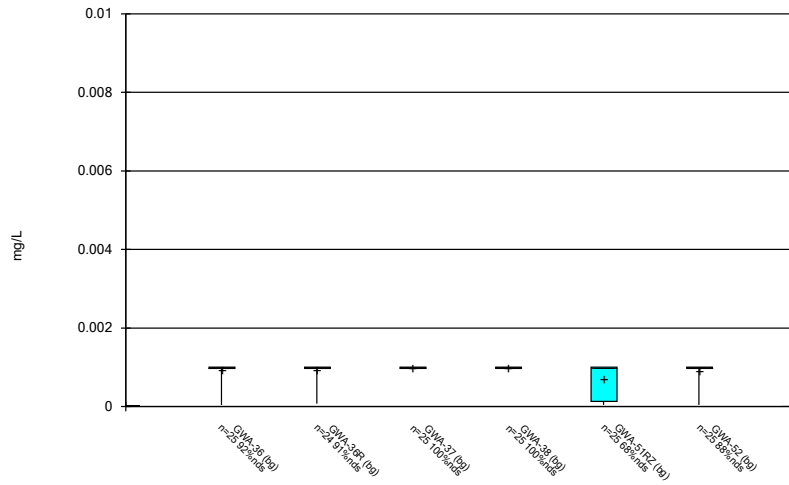
Constituent: Sulfate Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



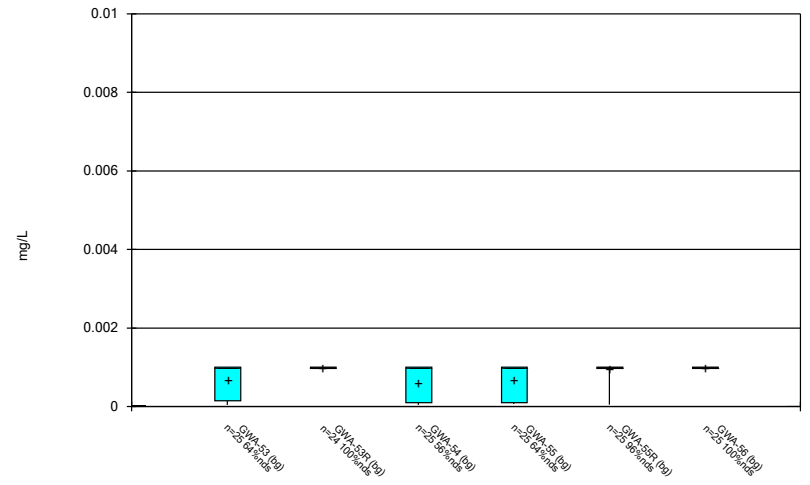
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



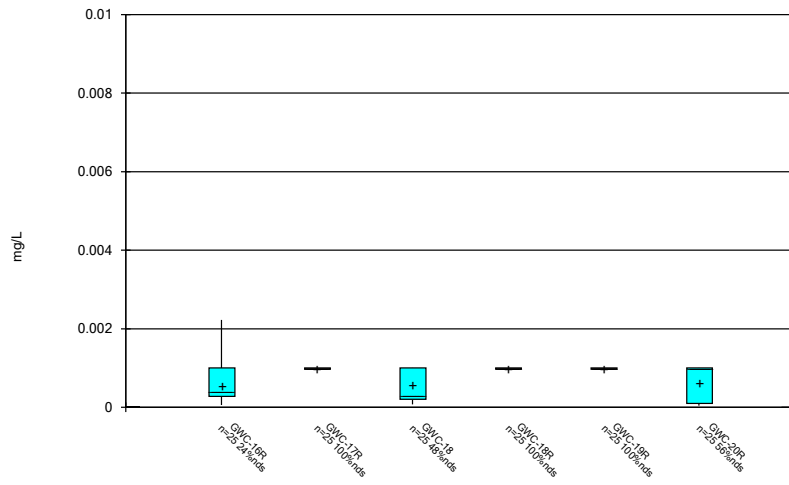
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



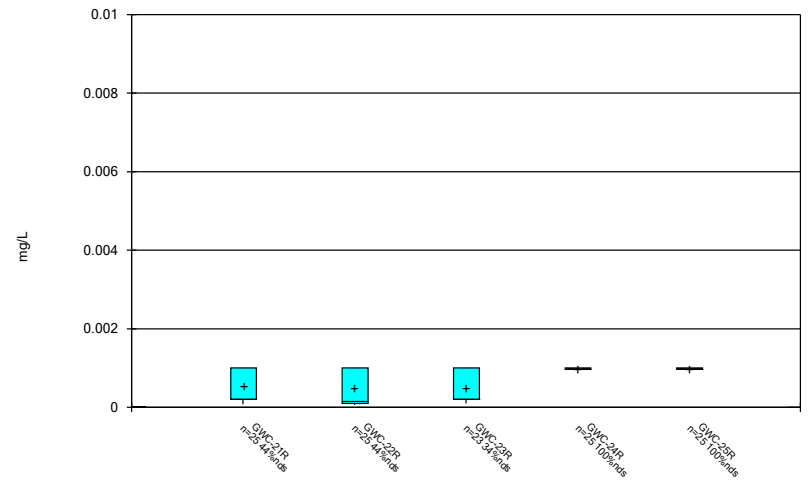
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



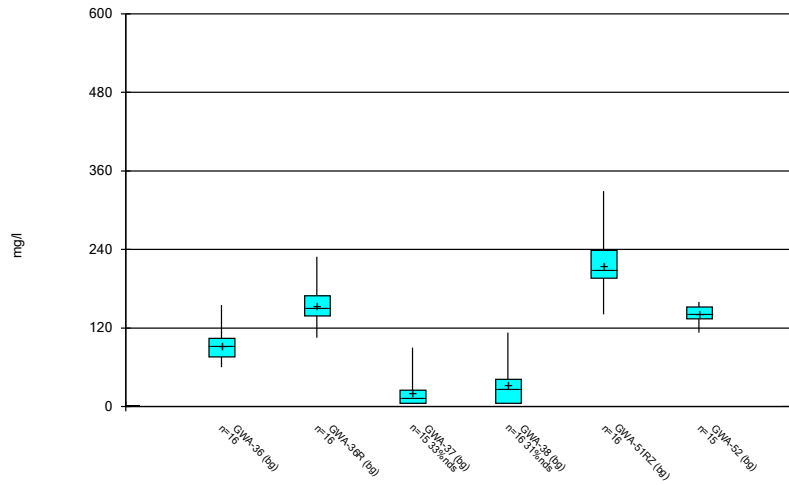
Constituent: Thallium Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



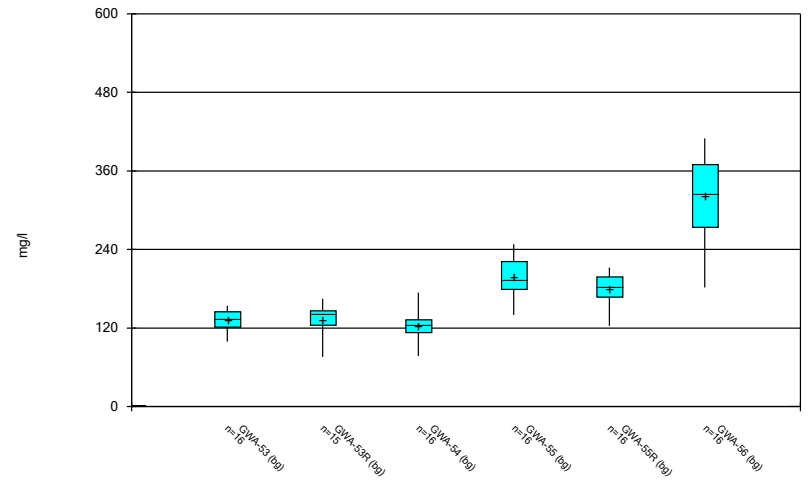
Constituent: Thallium Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



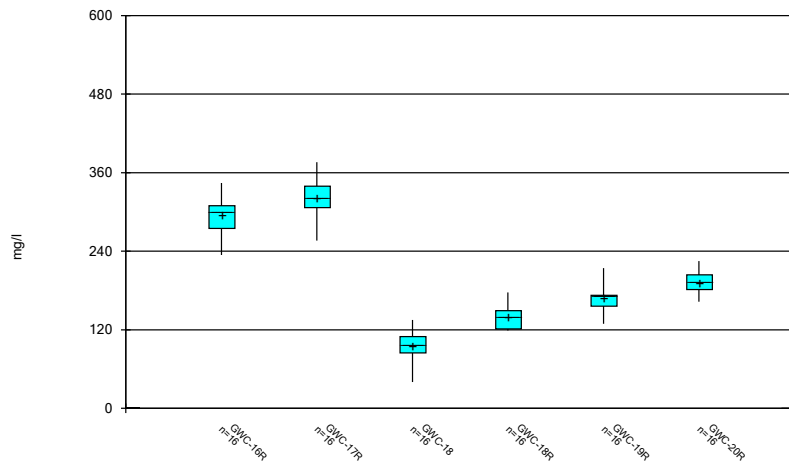
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



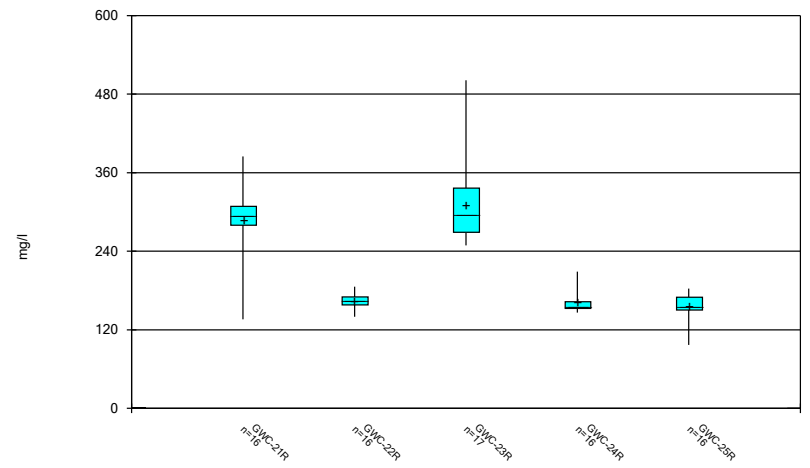
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



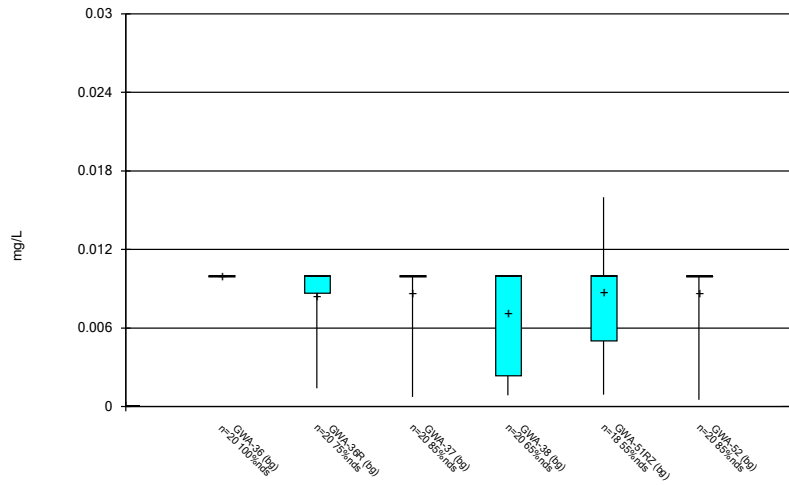
Constituent: Total Dissolved Solids Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



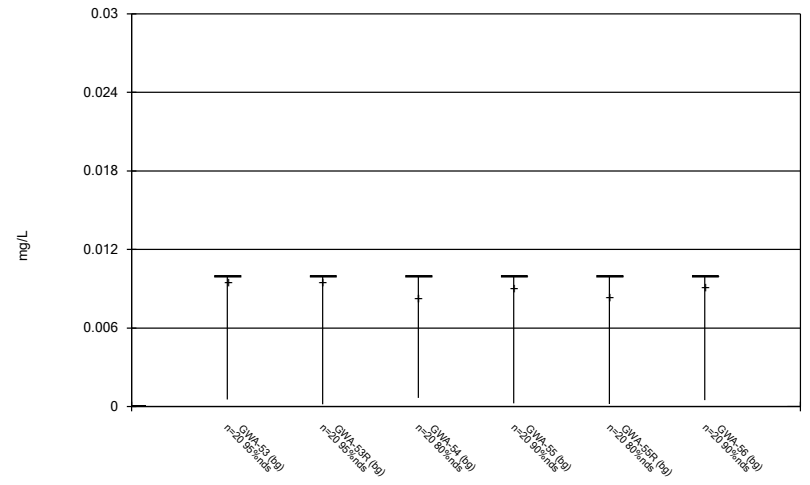
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



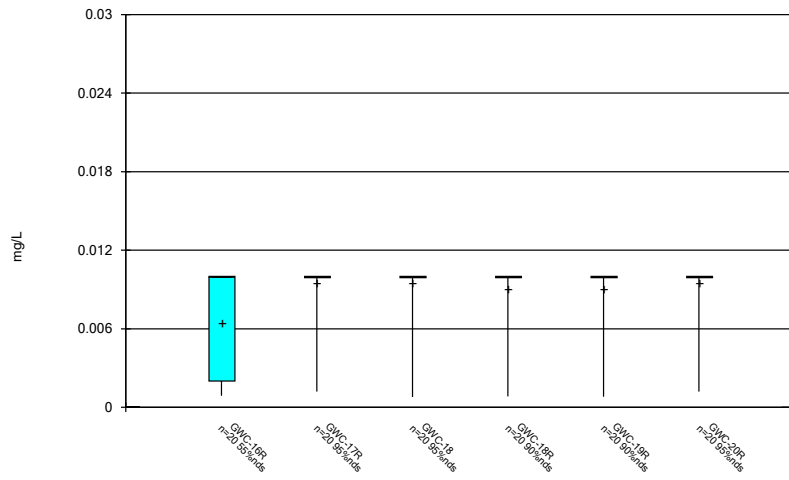
Constituent: Vanadium Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



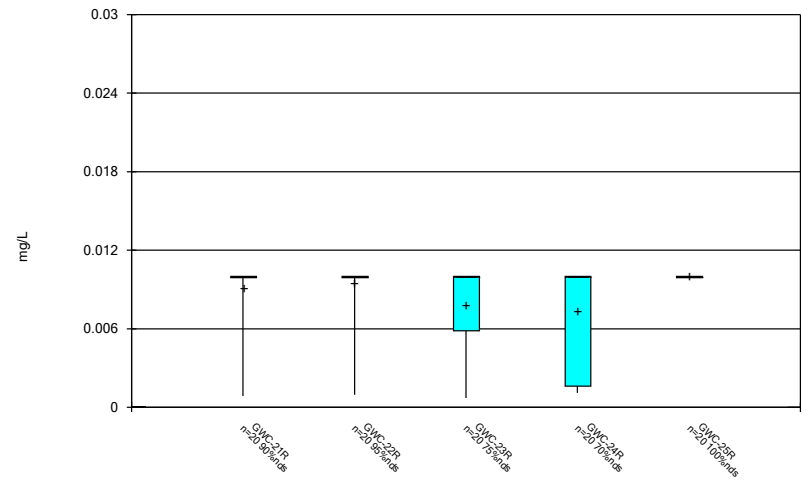
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 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



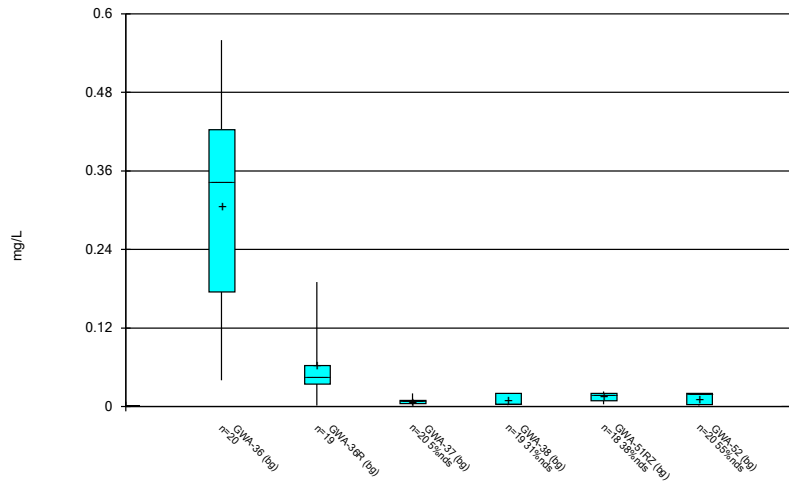
Constituent: Vanadium Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



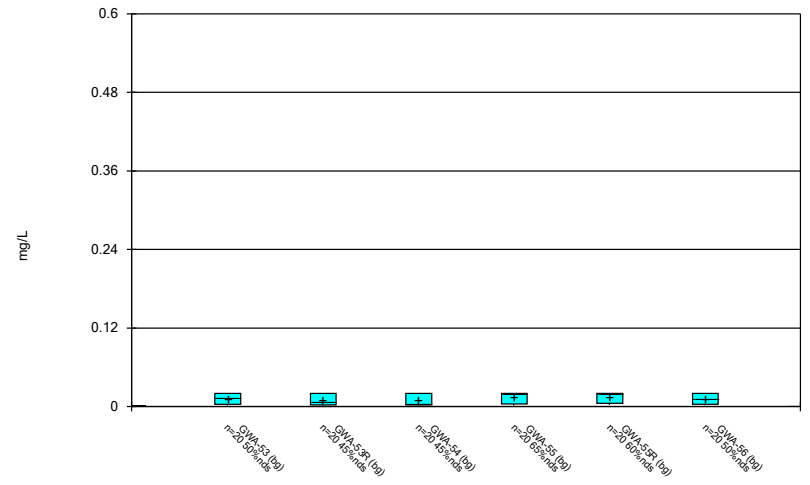
Constituent: Vanadium Analysis Run 5/5/2021 6:41 PM
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



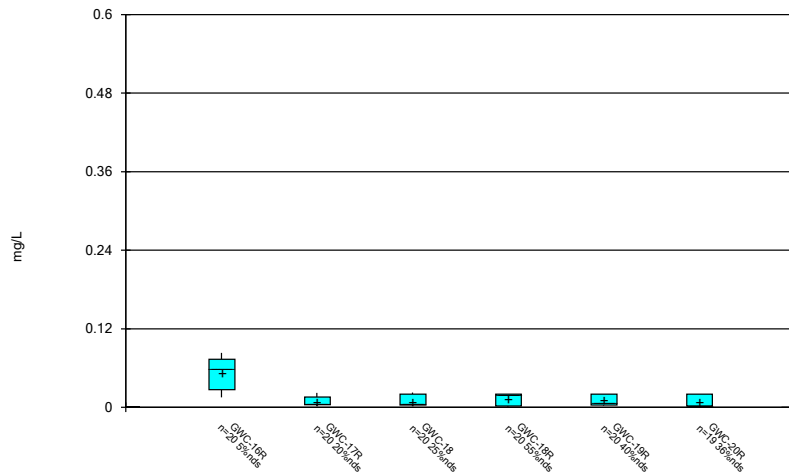
Constituent: Zinc Analysis Run 5/5/2021 6:41 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



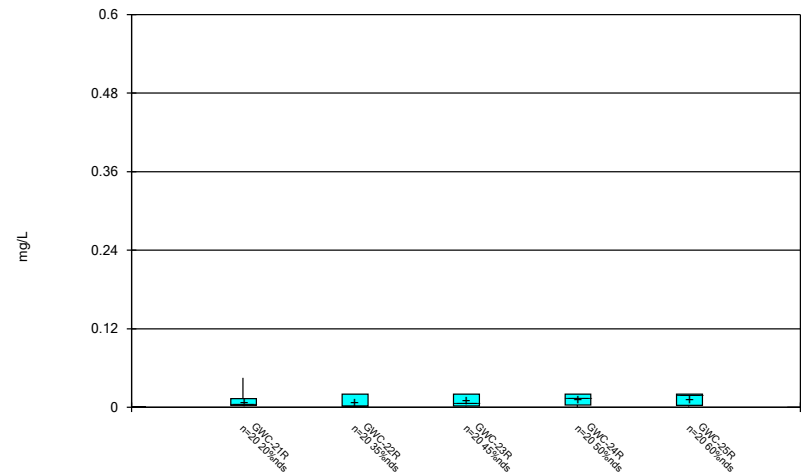
Constituent: Zinc Analysis Run 5/5/2021 6:41 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/5/2021 6:41 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/5/2021 6:41 PM
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

FIGURE C.

Outlier Summary

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/5/2021, 6:43 PM

Date	GWC-19R 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)	GWC-23R Thallium (mg/L)
9/15/2014										
10/4/2014				0.025 (o)						
10/21/2014				0.024 (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									0.0033 (Jo)	
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)	

Outlier Summary

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/5/2021, 6:43 PM

	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)			
10/4/2014						
10/21/2014						
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						
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.

Appendix I Intrawell Prediction Limits - All Results (No Significant)

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-36	0.0032	n/a	2/24/2021	0.00068J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-36R	0.003	n/a	3/26/2021	0.00092J	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-37	0.0052	n/a	2/24/2021	0.0012J	No	20	n/a	n/a	45	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWA-51RZ	0.0033	n/a	2/25/2021	0.00061J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-53	0.003	n/a	2/26/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-53R	0.0034	n/a	2/26/2021	0.0006J	No	20	n/a	n/a	60	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-54	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-55	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-55R	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWA-56	0.003	n/a	2/25/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-16R	0.0187	n/a	3/9/2021	0.018	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWC-17R	0.003	n/a	3/10/2021	0.003ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.003	n/a	2/26/2021	0.003ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-18R	0.003	n/a	2/26/2021	0.00059J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20R	0.003	n/a	3/9/2021	0.003ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-21R	0.0064	n/a	3/9/2021	0.0024J	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Antimony (mg/L)	GWC-23R	0.003	n/a	3/10/2021	0.003ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.00035J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-25R	0.003	n/a	3/9/2021	0.003ND	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-38	0.0062	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-51RZ	0.008095	n/a	2/25/2021	0.005ND	No	19	0.002535	0.002138	36.84	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Arsenic (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.00094J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.0045J	No	19	n/a	n/a	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.0018J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-36	0.01907	n/a	2/24/2021	0.016	No	15	0.01257	0.002339	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-36R	0.03424	n/a	3/26/2021	0.02	No	20	0.02211	0.004732	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-37	0.014	n/a	2/24/2021	0.0044J	No	20	0.008485	0.002151	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-38	0.01787	n/a	2/24/2021	0.013	No	19	0.01284	0.001936	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-51RZ	0.0345	n/a	2/25/2021	0.018	No	20	0.01511	0.007558	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-52	0.04903	n/a	2/24/2021	0.025	No	20	0.02779	0.008281	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-53	0.02258	n/a	2/26/2021	0.013	No	15	0.01479	0.002803	6.667	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-53R	0.01632	n/a	2/26/2021	0.015	No	20	0.0144	0.0007501	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-54	0.058	n/a	2/25/2021	0.034	No	20	n/a	n/a	5	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Barium (mg/L)	GWA-55	0.03737	n/a	2/25/2021	0.028	No	20	0.02333	0.005472	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-55R	0.08801	n/a	2/25/2021	0.034	No	20	0.05106	0.0144	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWA-56	0.03746	n/a	2/25/2021	0.032	No	20	0.02309	0.005602	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-16R	0.079	n/a	3/9/2021	0.058	No	20	0.2188	0.02428	0	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-17R	0.02153	n/a	3/10/2021	0.019	No	19	0.01975	0.0006818	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-18	0.04779	n/a	2/26/2021	0.017	No	19	0.0302	0.006763	0	None	No	0.0002993	Param Intra 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 2

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-18R	0.0176	n/a	2/26/2021	0.015	No	17	0.000002772	0.000001005	5.882	None	x^3	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-19R	0.01846	n/a	2/26/2021	0.016	No	19	0.01597	0.0009569	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-20R	0.03595	n/a	3/9/2021	0.027	No	20	0.02989	0.002362	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-21R	0.0377	n/a	3/9/2021	0.014	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-22R	0.07123	n/a	3/9/2021	0.045	No	20	0.03822	0.01287	5	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-23R	0.0421	n/a	3/10/2021	0.026	No	20	0.02645	0.006104	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-24R	0.03363	n/a	3/9/2021	0.021	No	19	0.02339	0.003934	0	None	No	0.0002993	Param Intra 1 of 2
Barium (mg/L)	GWC-25R	0.0167	n/a	3/9/2021	0.016	No	20	n/a	n/a	0	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-36	0.003	n/a	2/24/2021	0.00022J	No	20	n/a	n/a	35	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-36R	0.0032	n/a	3/26/2021	0.00019J	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-51RZ	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-53	0.003	n/a	2/26/2021	0.000051J	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-53R	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-55	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-55R	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWA-56	0.0005	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-18	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-18R	0.003	n/a	2/26/2021	0.0002J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-19R	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-20R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-36	0.001664	n/a	2/24/2021	0.0012	No	20	0.0008898	0.000302	15	None	No	0.0002993	Param Intra 1 of 2
Cadmium (mg/L)	GWA-36R	0.001	n/a	3/26/2021	0.00015J	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.0005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWA-51RZ	0.00055	n/a	2/25/2021	0.0005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.0005	n/a	2/26/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-21R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-22R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-25R	0.0005	n/a	3/9/2021	0.0005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.0006J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-38	0.01	n/a	2/24/2021	0.0018J	No	20	n/a	n/a	20	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-51RZ	0.02	n/a	2/25/2021	0.005ND	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-52	0.01	n/a	2/24/2021	0.00097J	No	20	n/a	n/a	60	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-53	0.01	n/a	2/26/2021	0.0008J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-53R	0.01	n/a	2/26/2021	0.00071J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-54	0.01	n/a	2/25/2021	0.0017J	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.00078J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-55R	0.01	n/a	2/25/2021	0.00083J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWA-56	0.01	n/a	2/25/2021	0.001J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-16R	0.01	n/a	3/9/2021	0.0024J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01201	n/a	2/26/2021	0.0014J	No	18	-5.726	0.4943	11.11	None	ln(x)	0.0002993	Param Intra 1 of 2
Chromium (mg/L)	GWC-18R	0.01	n/a	2/26/2021	0.00069J	No	16	n/a	n/a	68.75	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-19R	0.01	n/a	2/26/2021	0.00067J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20R	0.01	n/a	3/9/2021	0.00094J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-23R	0.01	n/a	3/10/2021	0.00073J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-25R	0.01	n/a	3/9/2021	0.00079J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 3

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWA-37	0.005	n/a	2/24/2021	0.005ND	No	20	n/a	n/a	55	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-38	0.004336	n/a	2/24/2021	0.0011J	No	17	0.04368	0.008291	0	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Cobalt (mg/L)	GWA-51RZ	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWA-55	0.00715	n/a	2/25/2021	0.0039J	No	20	n/a	n/a	35	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-16R	0.00818	n/a	3/9/2021	0.00047J	No	20	0.0431	0.01846	15	None	sqrt(x)	0.0002993	Param Intra 1 of 2
Cobalt (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-21R	0.0183	n/a	3/9/2021	0.0004J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-22R	0.01	n/a	3/9/2021	0.00066J	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-36R	0.005	n/a	3/26/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-37	0.02858	n/a	2/24/2021	0.0083	No	10	0.01155	0.005241	0	None	No	0.0002993	Param Intra 1 of 2
Copper (mg/L)	GWA-38	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-51RZ	0.0066	n/a	2/25/2021	0.005ND	No	14	n/a	n/a	64.29	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-16R	0.025	n/a	3/9/2021	0.0025J	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-17R	0.008752	n/a	3/10/2021	0.005ND	No	15	0.03537	0.02093	40	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Copper (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-21R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-36	0.005	n/a	2/24/2021	0.000062J	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-36R	0.0069	n/a	3/26/2021	0.00095J	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-37	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-38	0.0047	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-51RZ	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.00012J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-53R	0.005	n/a	2/26/2021	0.000064J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-54	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.00009J	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.000038J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.000045J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.00011J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-17R	0.001	n/a	3/10/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.000094J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.00025J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-19R	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-21R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-23R	0.001	n/a	3/10/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-24R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-25R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

Appendix I Intrawell Prediction Limits - All Results (No Significant) Page 4

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWA-36	0.0002	n/a	2/24/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-36R	0.0002	n/a	3/26/2021	0.0002ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-37	0.0005	n/a	2/24/2021	0.000091J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-38	0.0005	n/a	2/24/2021	0.00013J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-51RZ	0.0002	n/a	2/25/2021	0.0002ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-16R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-17R	0.0002	n/a	3/10/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-18R	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-19R	0.0002	n/a	2/26/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-20R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-21R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-22R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-23R	0.0002	n/a	3/10/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-24R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-25R	0.0002	n/a	3/9/2021	0.0002ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-36	0.0142	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.005ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-37	0.02948	n/a	2/24/2021	0.01	No	15	0.01434	0.005448	0	None	No	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWA-38	0.01429	n/a	2/24/2021	0.00091J	No	15	0.05358	0.02374	26.67	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWA-51RZ	0.005	n/a	2/25/2021	0.005ND	No	14	n/a	n/a	85.71	n/a	n/a	0.008612	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-52	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-53	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-54	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-55	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-16R	0.02928	n/a	3/9/2021	0.0053	No	11	0.01443	0.004761	0	None	No	0.0002993	Param Intra 1 of 2
Nickel (mg/L)	GWC-18	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-21R	0.01	n/a	3/9/2021	0.00075J	No	14	n/a	n/a	42.86	n/a	n/a	0.008612	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-22R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-24R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-25R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-51RZ	0.01	n/a	2/25/2021	0.0099	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.0018J	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-55R	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWA-56	0.005	n/a	2/25/2021	0.005ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-23R	0.005	n/a	3/10/2021	0.005ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWA-38	0.005	n/a	2/24/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-16R	0.005	n/a	3/9/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-17R	0.005	n/a	3/10/2021	0.005ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-18R	0.005	n/a	2/26/2021	0.005ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-36	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-36R	0.001	n/a	3/26/2021	0.001ND	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-51RZ	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	70	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-52	0.001	n/a	2/24/2021	0.001ND	No	20	n/a	n/a	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-53	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	55	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-54	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWA-55	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-55R	0.001	n/a	2/25/2021	0.001ND	No	20	n/a	n/a	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-16R	0.00116	n/a	3/9/2021	0.001ND	No	20	-8.321	0.6089	20	Kaplan-Meier	ln(x)	0.0002993	Param Intra 1 of 2
Thallium (mg/L)	GWC-18	0.001	n/a	2/26/2021	0.001ND	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-20R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	45	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-21R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	40	n/a	n/a	0.004291	NP Intra (normality) 1 of 2

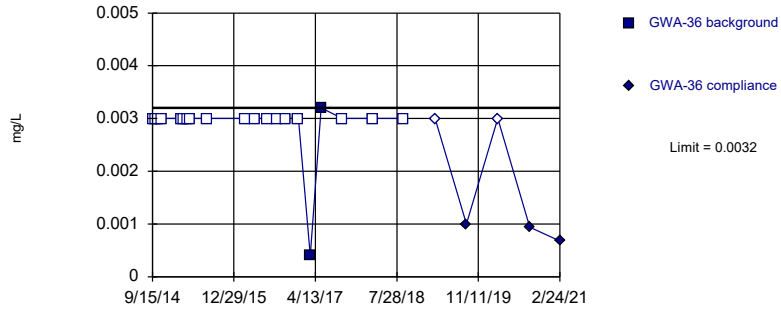
Appendix I Intrawell Prediction Limits - All Results (No Significant) ^{Page 5}

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	GWC-22R	0.001	n/a	3/9/2021	0.001ND	No	20	n/a	n/a	50	n/a	n/a	0.004291	NP Intra (normality) 1 of 2
Thallium (mg/L)	GWC-23R	0.001	n/a	3/10/2021	0.001ND	No	18	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Vanadium (mg/L)	GWA-36R	0.01	n/a	3/26/2021	0.01ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-37	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-38	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-51RZ	0.01862	n/a	2/25/2021	0.01ND	No	13	0.006365	0.004195	46.15	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Vanadium (mg/L)	GWA-52	0.01	n/a	2/24/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-53	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-53R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-54	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-55	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-55R	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-56	0.01	n/a	2/25/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-16R	0.01	n/a	3/9/2021	0.003J	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-17R	0.01	n/a	3/10/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	86.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-19R	0.01	n/a	2/26/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	93.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-21R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-22R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-23R	0.01	n/a	3/10/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-24R	0.01	n/a	3/9/2021	0.01ND	No	15	n/a	n/a	73.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-36	0.6606	n/a	2/24/2021	0.44	No	10	0.3509	0.09528	0	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-36R	0.2321	n/a	3/26/2021	0.046	No	14	0.06816	0.05752	0	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-37	0.01469	n/a	2/24/2021	0.0038J	No	15	0.007437	0.002609	6.667	None	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-38	0.01558	n/a	2/24/2021	0.02ND	No	14	0.06544	0.02083	21.43	Kaplan-Meier	sqrt(x)	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-51RZ	0.03012	n/a	2/25/2021	0.02ND	No	13	0.01304	0.00585	30.77	Kaplan-Meier	No	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWA-52	0.02	n/a	2/24/2021	0.02ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-53	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-53R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-54	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWA-55	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	66.67	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-55R	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-56	0.02	n/a	2/25/2021	0.02ND	No	15	n/a	n/a	46.67	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-16R	0.09557	n/a	3/9/2021	0.025	No	15	0.0002999	0.0002062	6.667	None	x^3	0.0002993	Param Intra 1 of 2
Zinc (mg/L)	GWC-17R	0.0219	n/a	3/10/2021	0.02ND	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-18	0.0225	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	13.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-18R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	53.33	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19R	0.02	n/a	2/26/2021	0.02ND	No	15	n/a	n/a	33.33	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-20R	0.02	n/a	3/9/2021	0.02ND	No	14	n/a	n/a	28.57	n/a	n/a	0.008612	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-21R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	20	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-22R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-23R	0.02	n/a	3/10/2021	0.02ND	No	15	n/a	n/a	40	n/a	n/a	0.007533	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-24R	0.01	n/a	3/9/2021	0.0063J	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-25R	0.02	n/a	3/9/2021	0.02ND	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

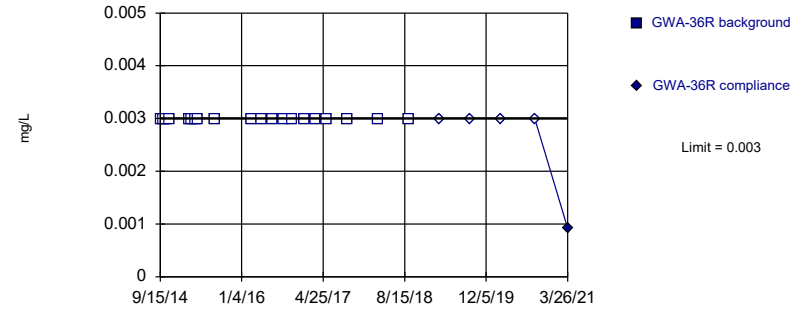


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

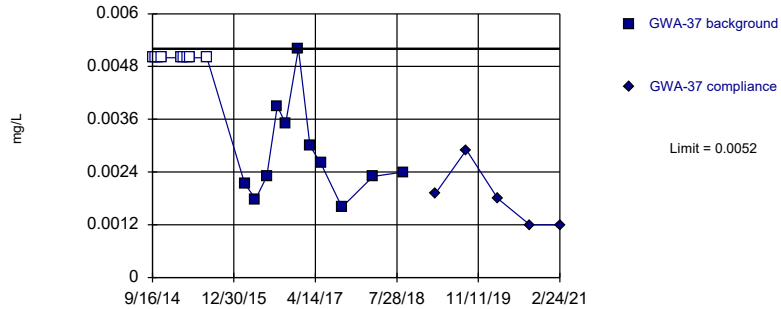


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

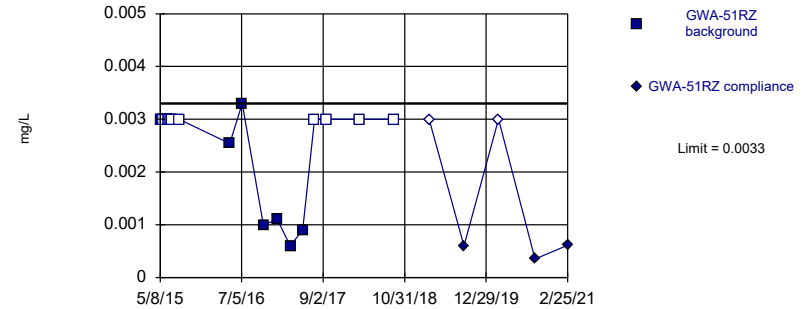


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

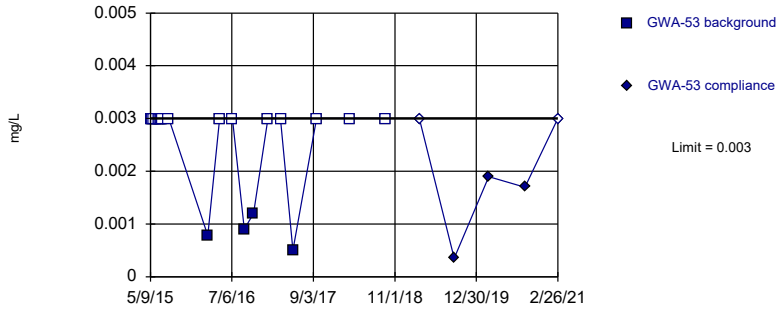


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

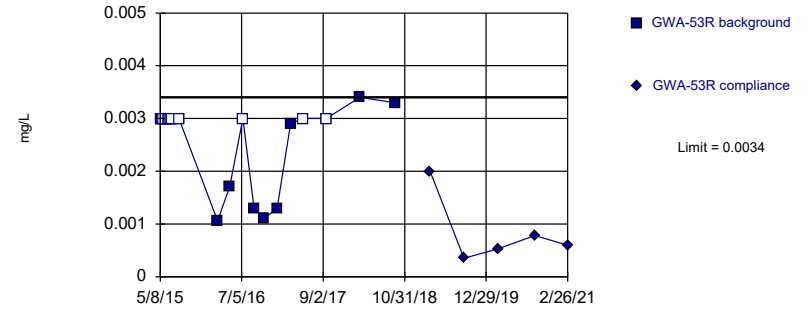


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

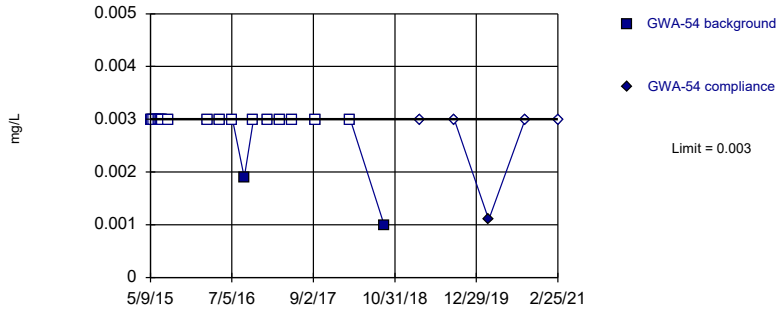


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 60% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

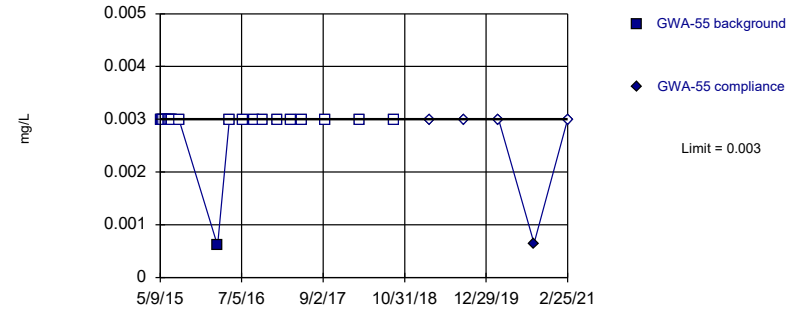


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

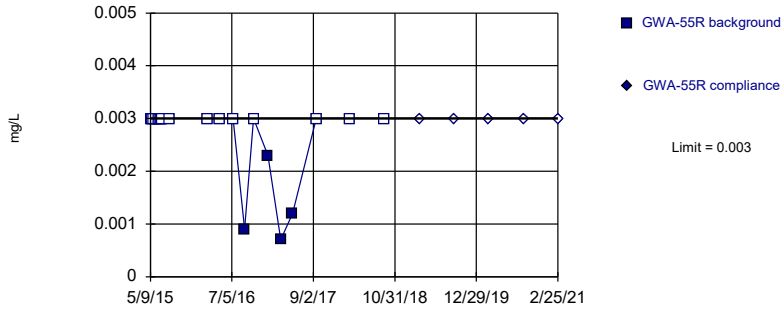


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

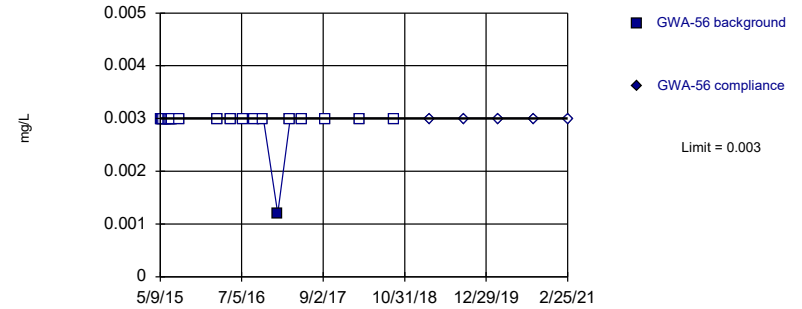


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

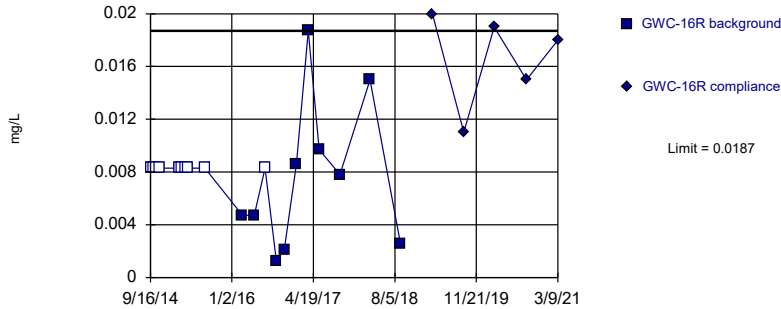


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

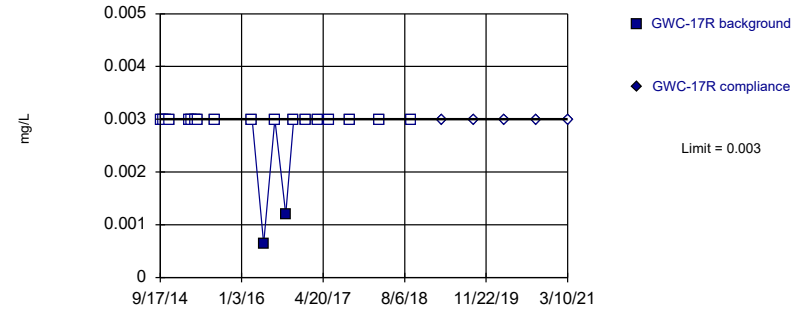


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

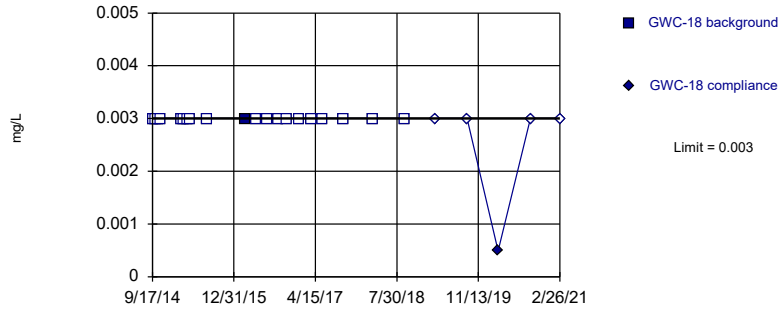


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

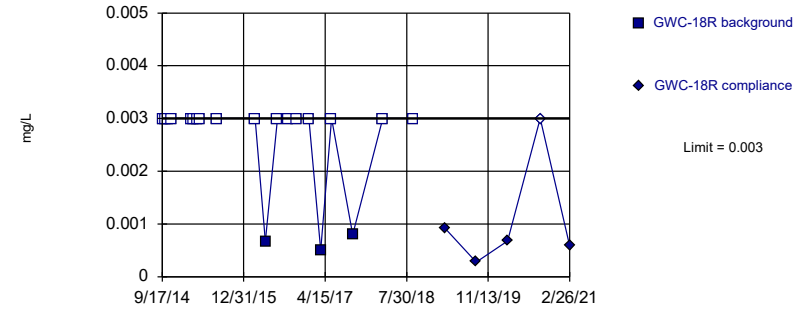


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

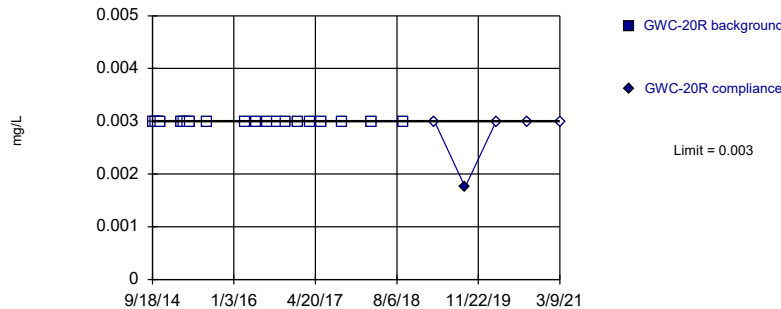


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

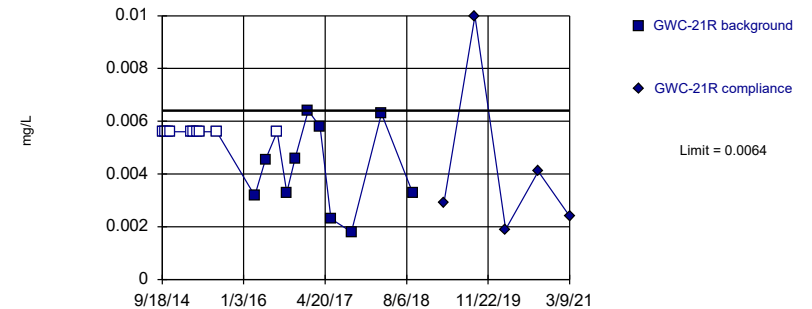


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

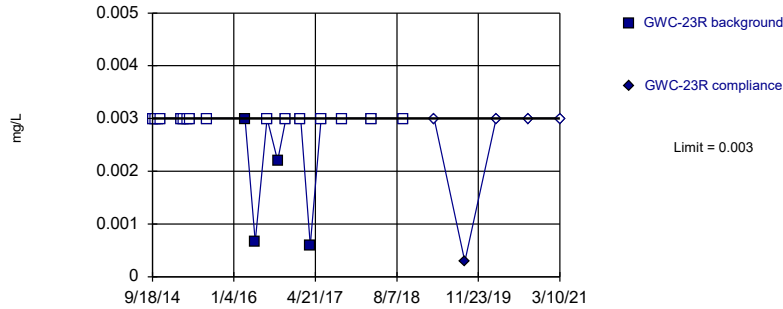


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

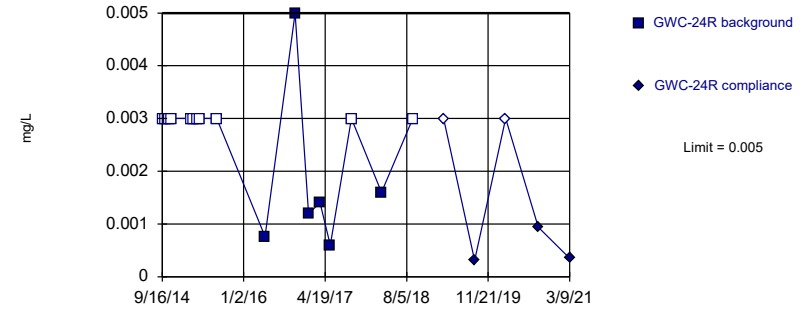


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

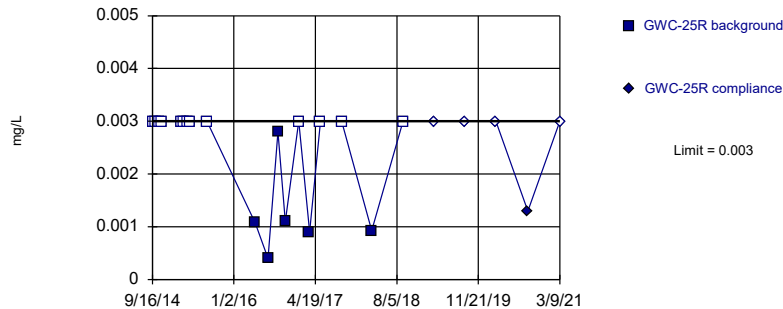


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

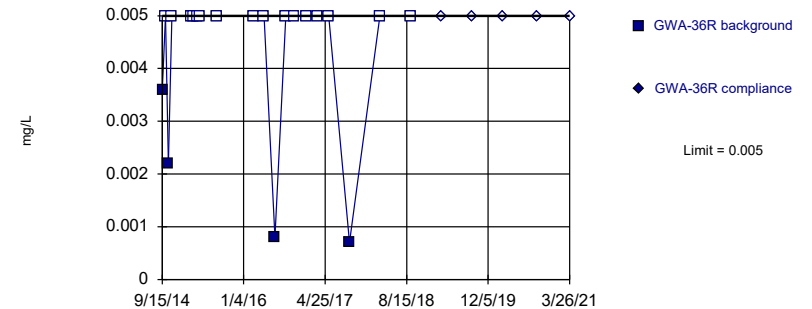


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Antimony Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

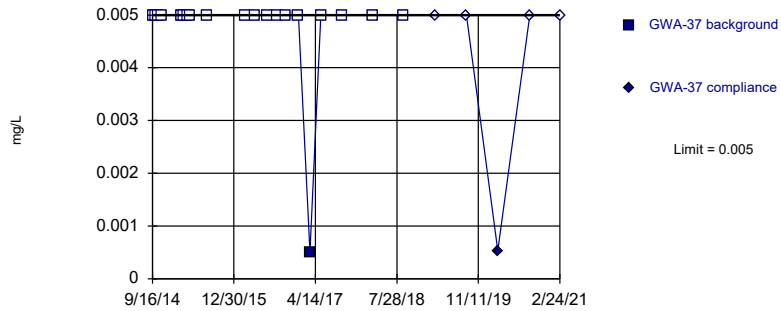


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

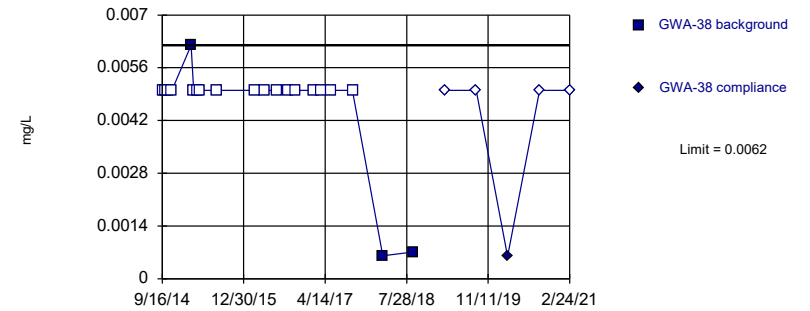


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

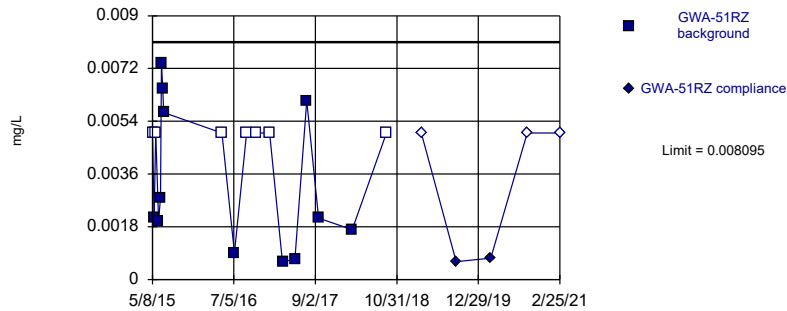


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

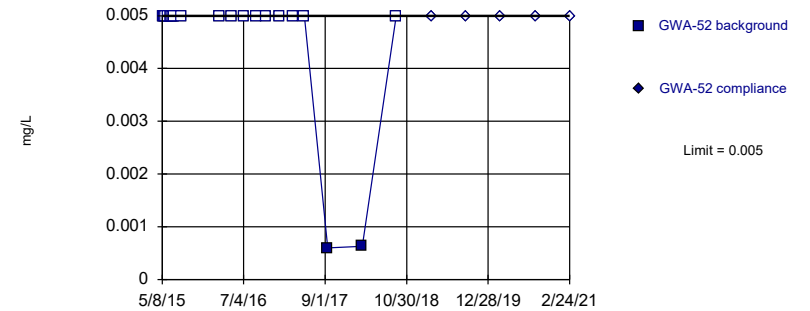


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002535, Std. Dev.=0.002138, n=19, 36.84% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8967, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

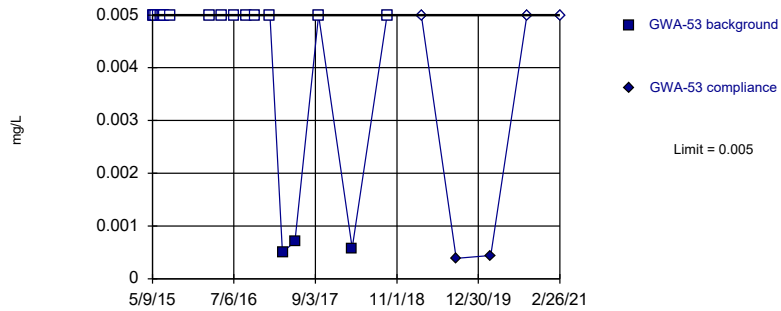


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

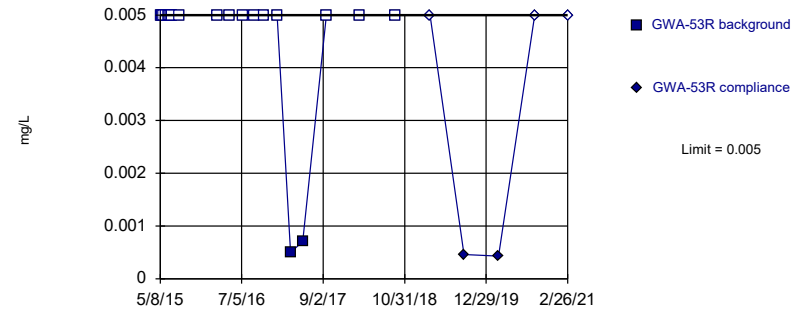


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:36 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

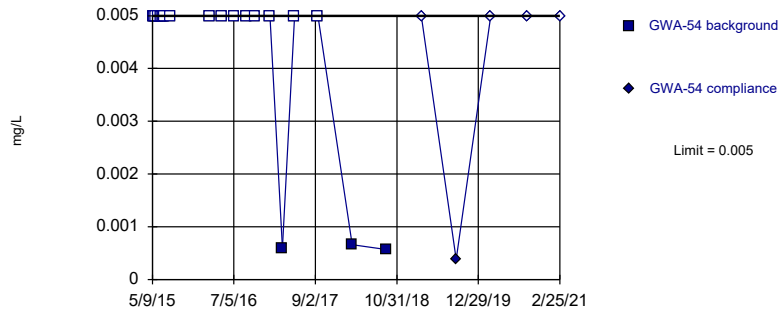


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

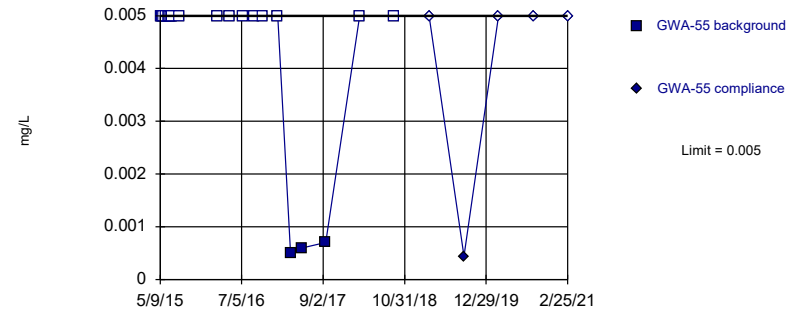


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

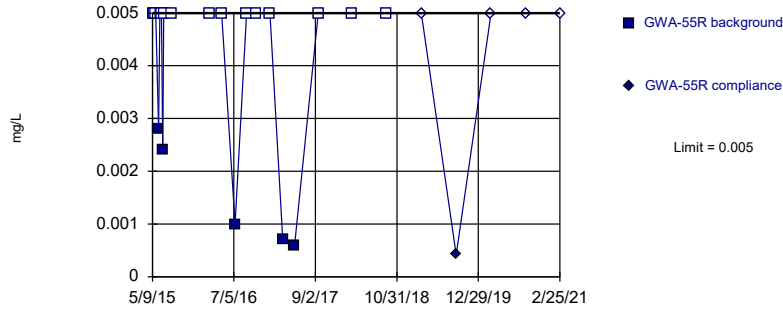


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

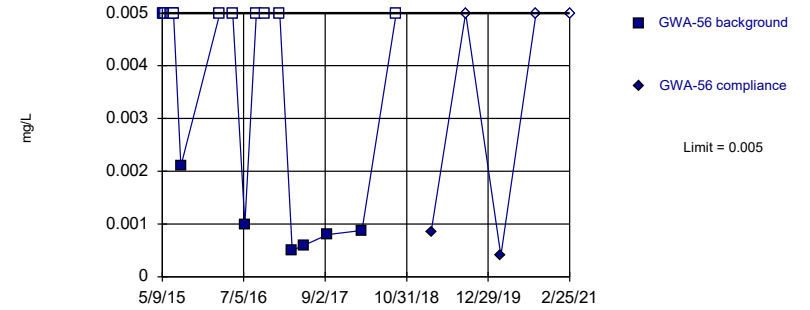


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

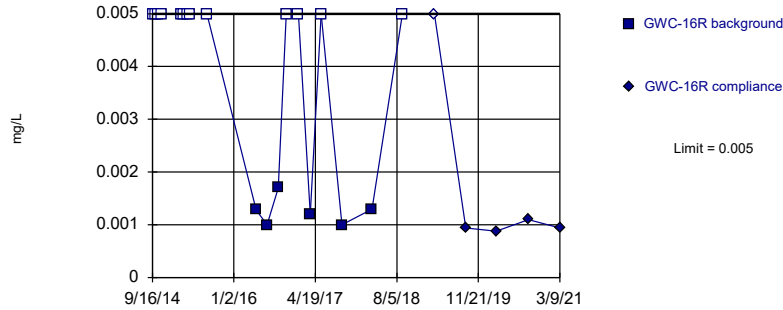


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

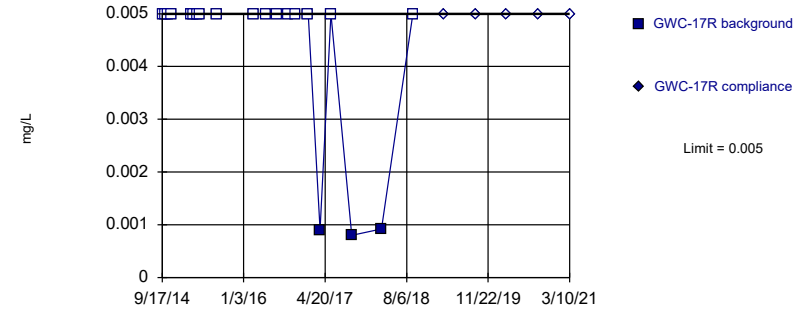


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

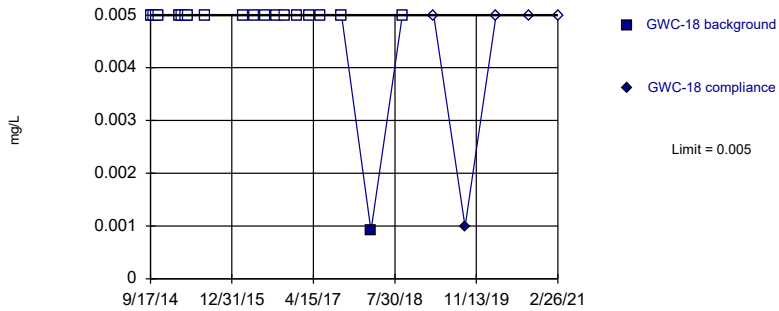


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

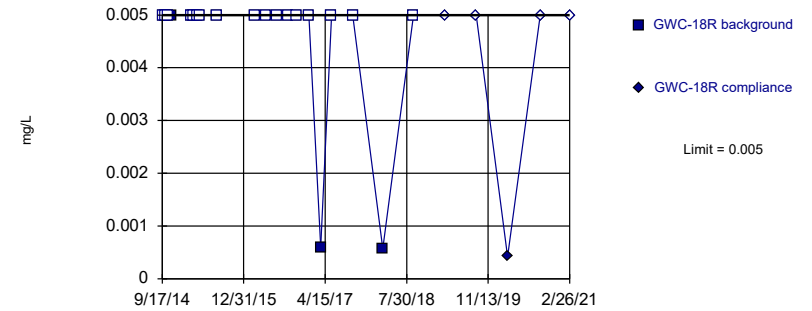


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

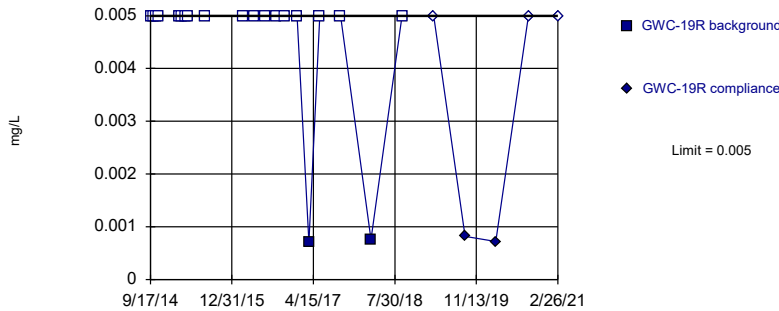


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

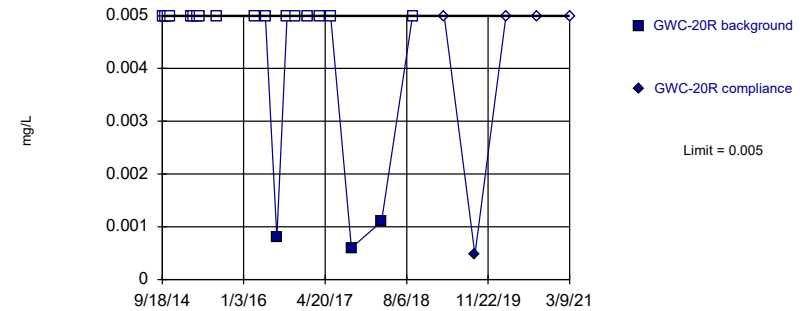


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

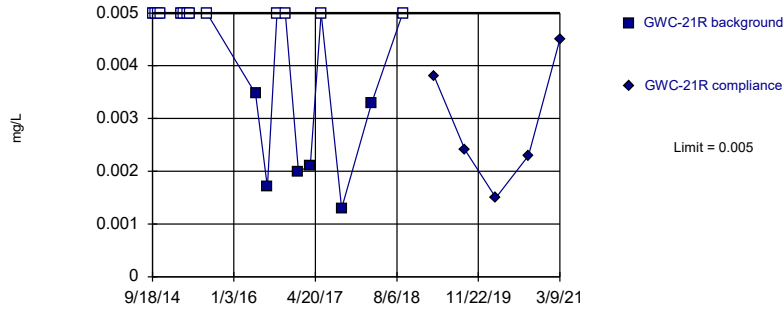


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

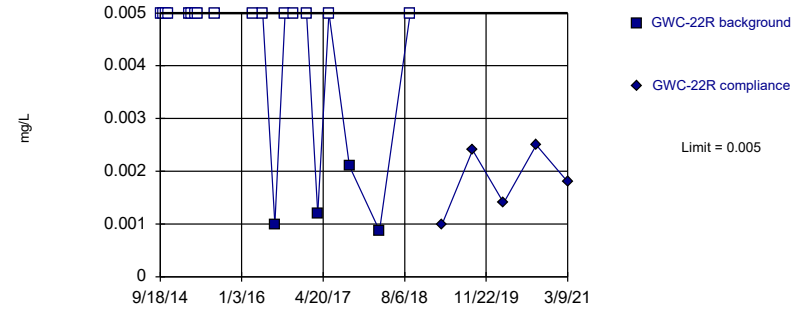


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

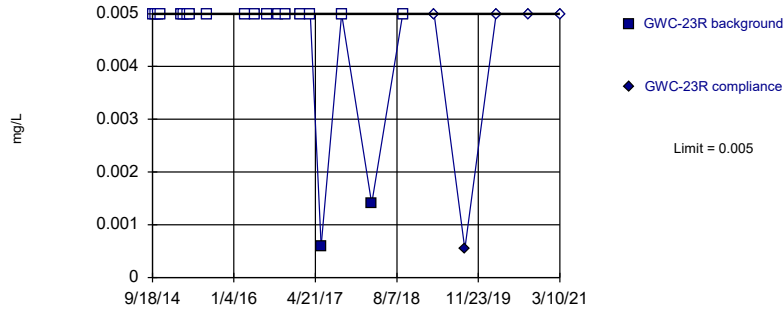


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

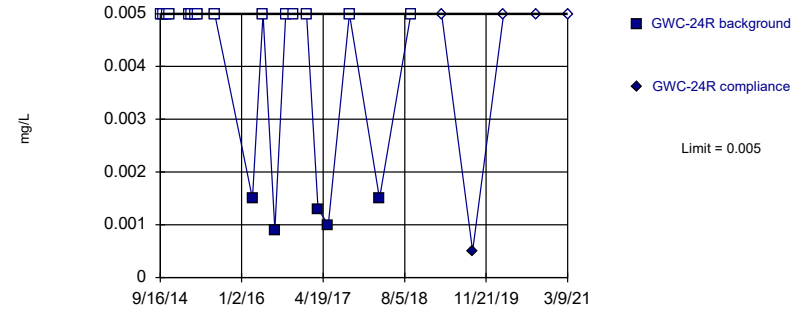


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

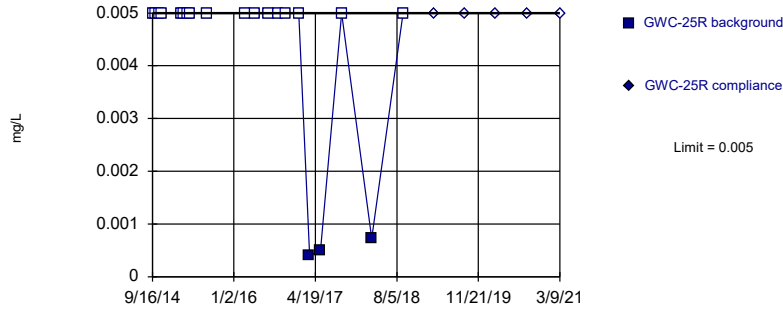


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

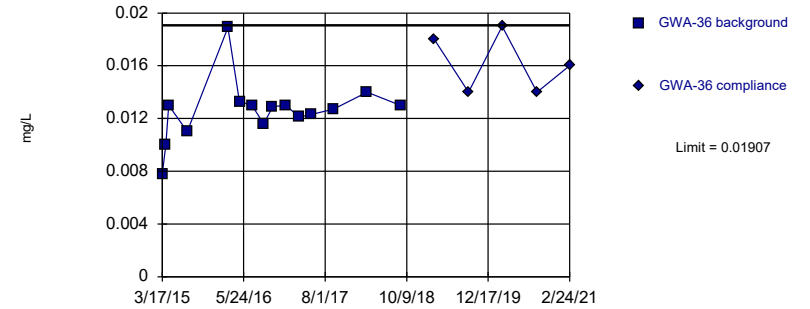


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Arsenic Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

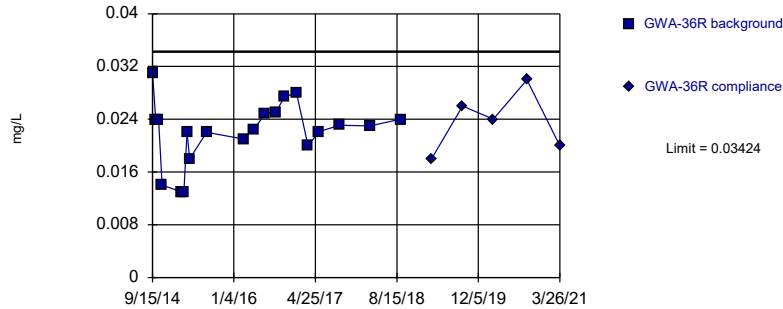


Background Data Summary: Mean=0.01257, Std. Dev.=0.002339, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.851, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

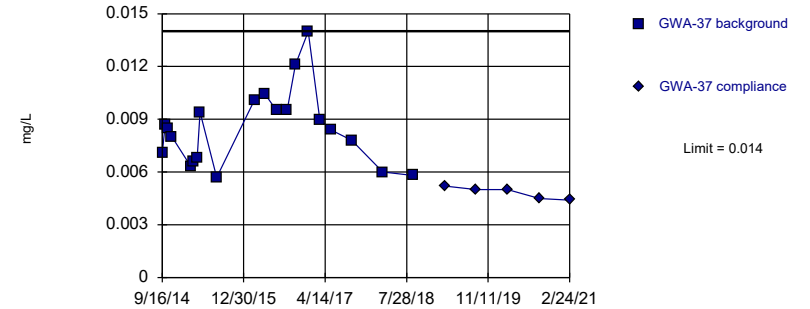


Background Data Summary: Mean=0.02211, Std. Dev.=0.004732, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9286, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

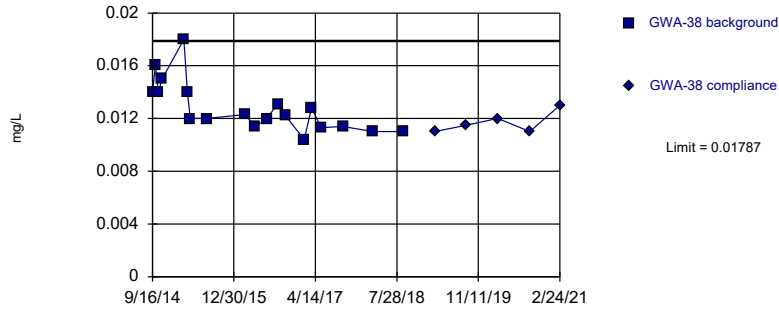


Background Data Summary: Mean=0.008485, Std. Dev.=0.002151, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

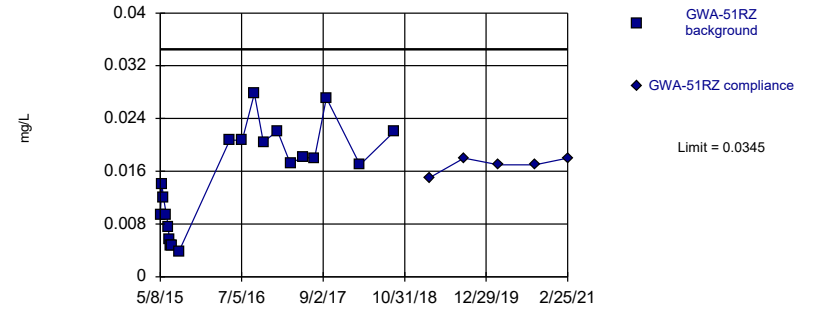


Background Data Summary: Mean=0.01284, Std. Dev.=0.001936, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8947, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

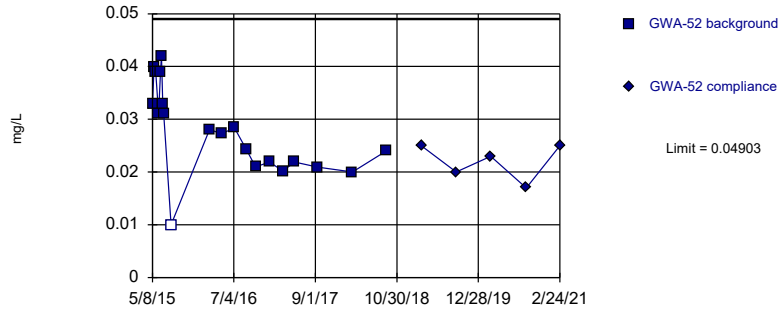


Background Data Summary: Mean=0.01511, Std. Dev.=0.007558, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9362, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

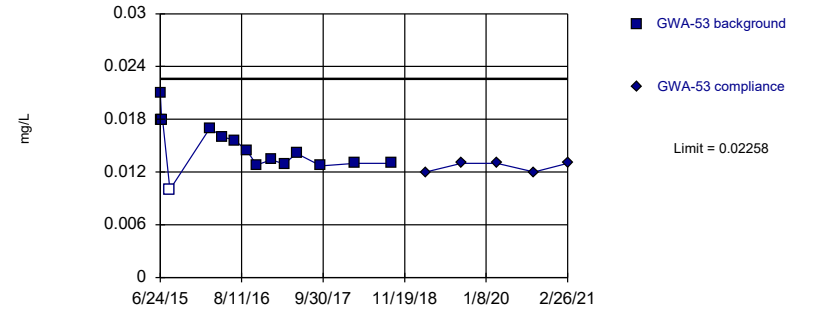


Background Data Summary: Mean=0.02779, Std. Dev.=0.008281, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

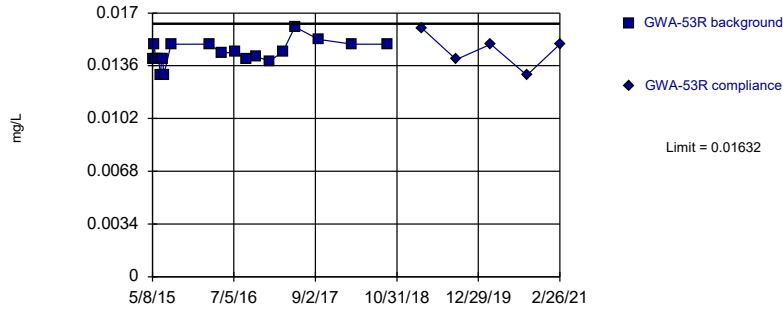


Background Data Summary: Mean=0.01479, Std. Dev.=0.002803, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.939, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

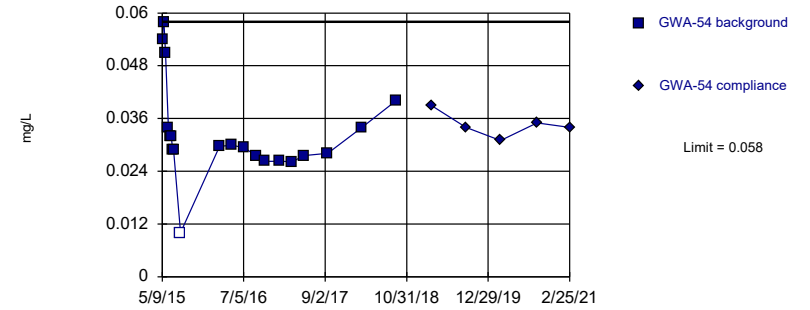


Background Data Summary: Mean=0.0144, Std. Dev.=0.0007501, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9338, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

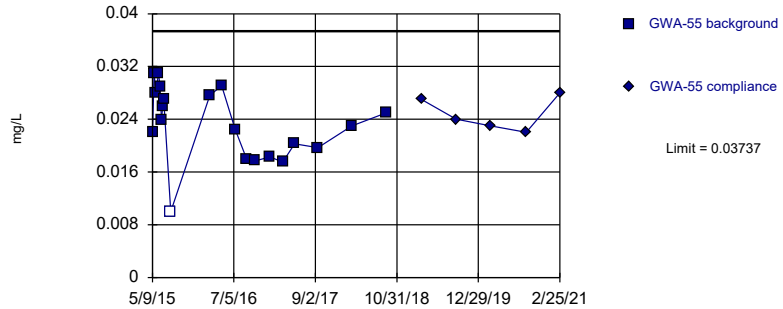


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 5% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

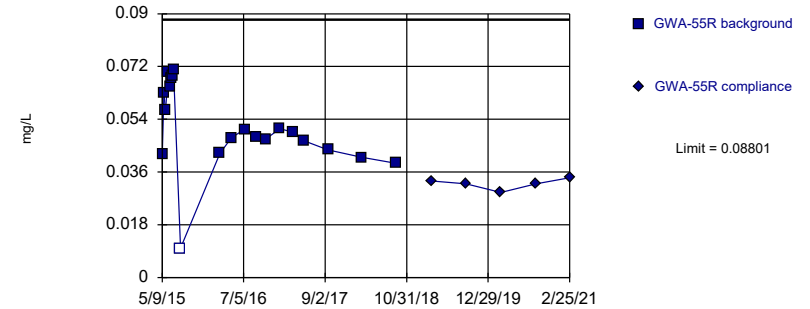


Background Data Summary: Mean=0.02333, Std. Dev.=0.005472, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

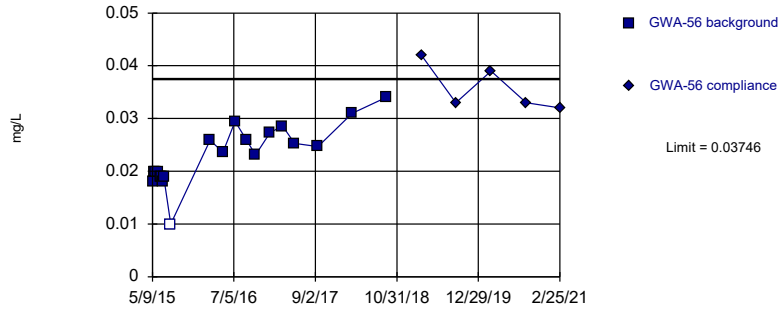


Background Data Summary: Mean=0.05106, Std. Dev.=0.0144, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8917, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

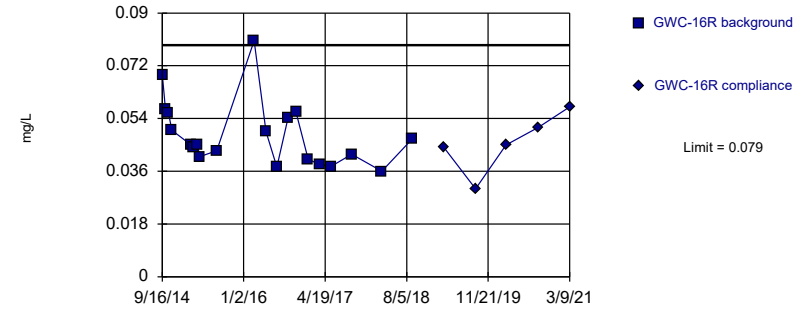


Background Data Summary: Mean=0.02309, Std. Dev.=0.005602, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

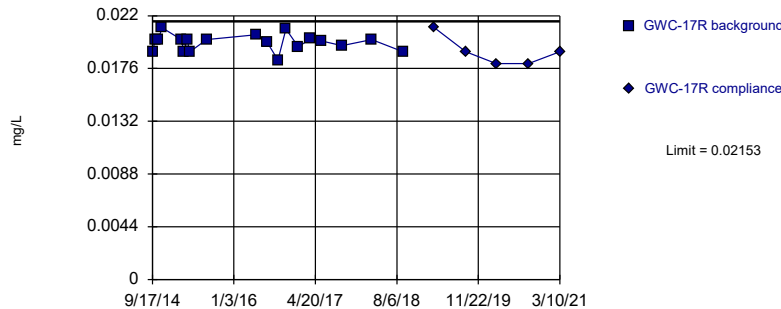


Background Data Summary (based on square root transformation): Mean=0.2188, Std. Dev.=0.02428, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8997, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

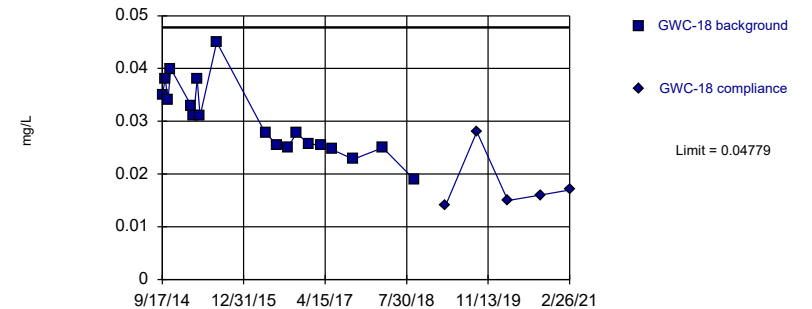


Background Data Summary: Mean=0.01975, Std. Dev.=0.0006818, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

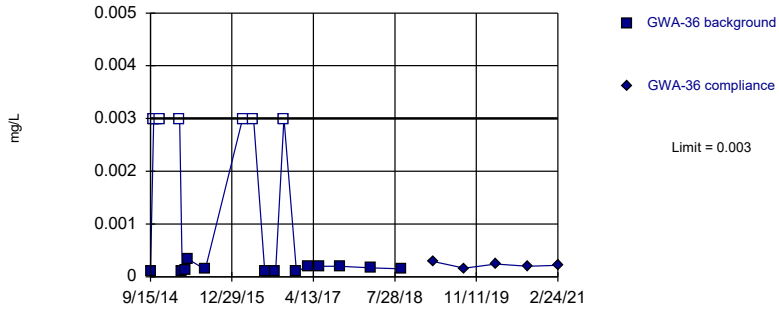


Background Data Summary: Mean=0.0302, Std. Dev.=0.006763, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9507, critical = 0.863. Kappa = 2.601 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Barium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

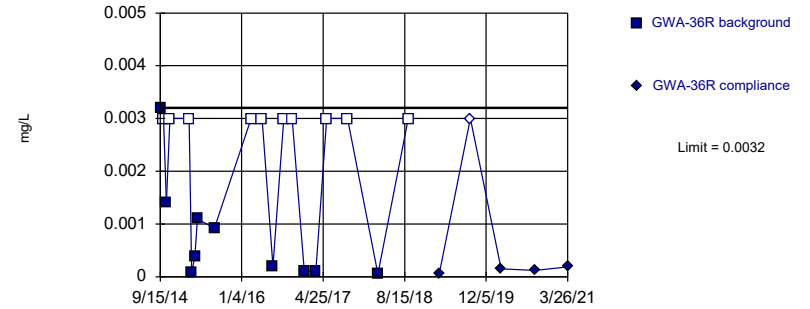


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 35% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

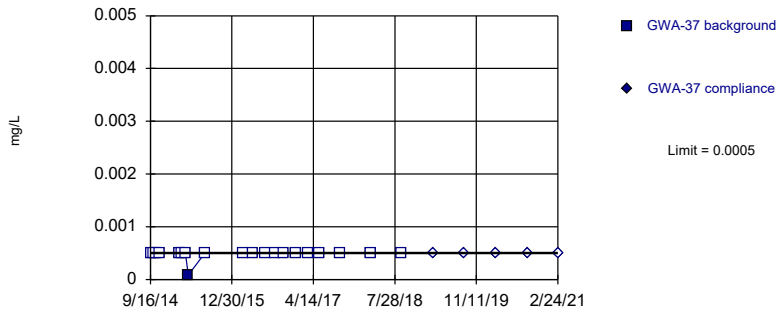


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

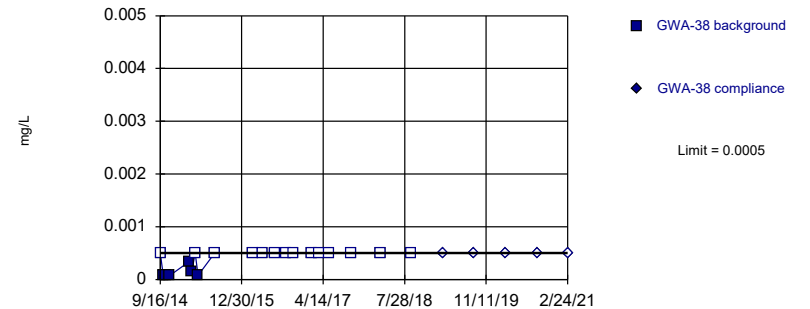


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

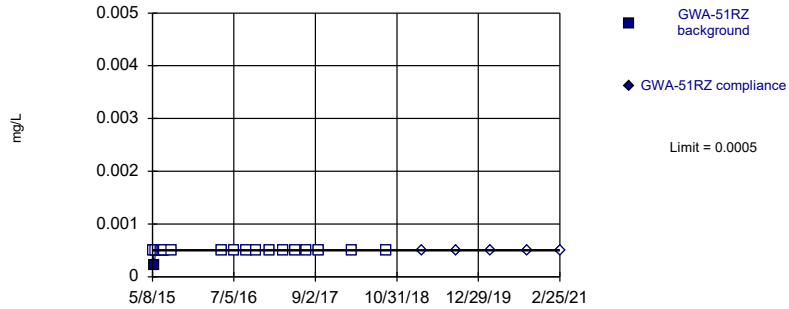


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

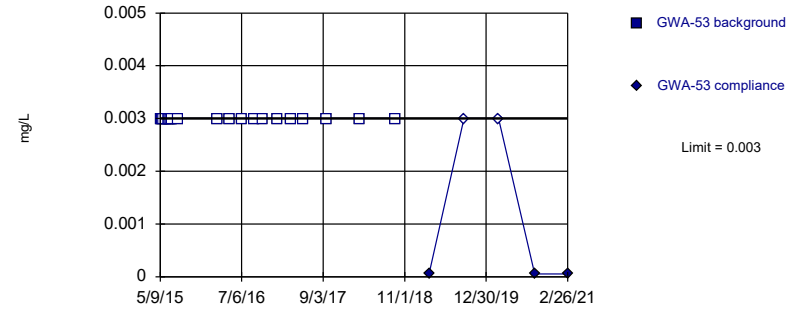


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

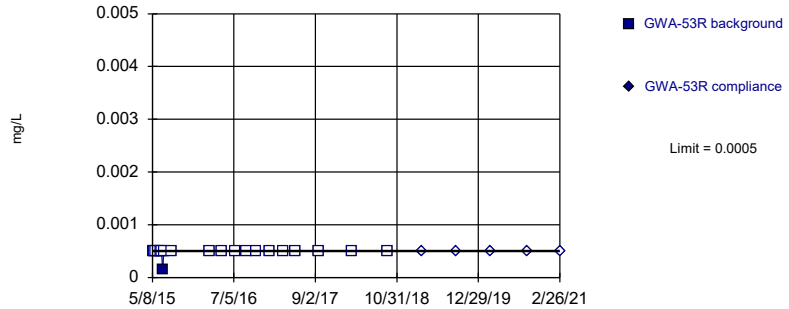


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

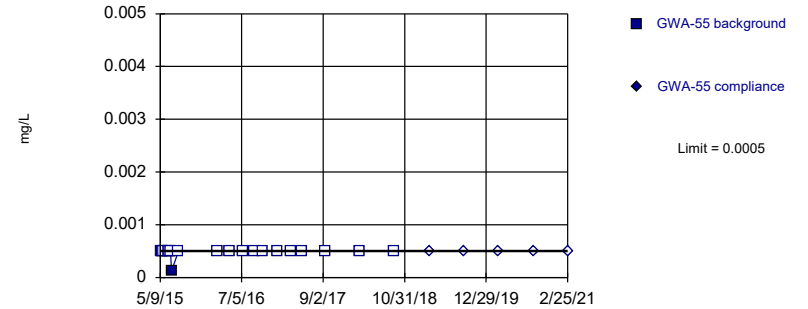


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

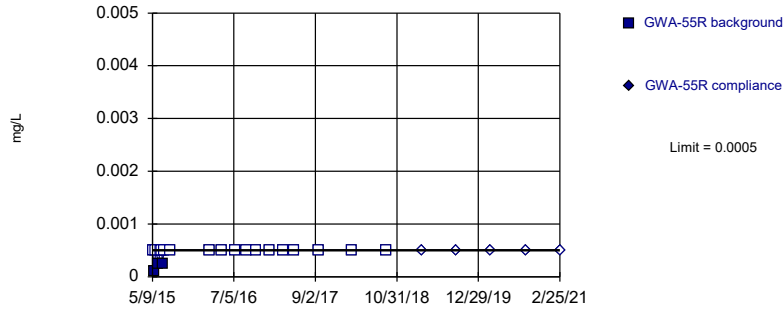


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

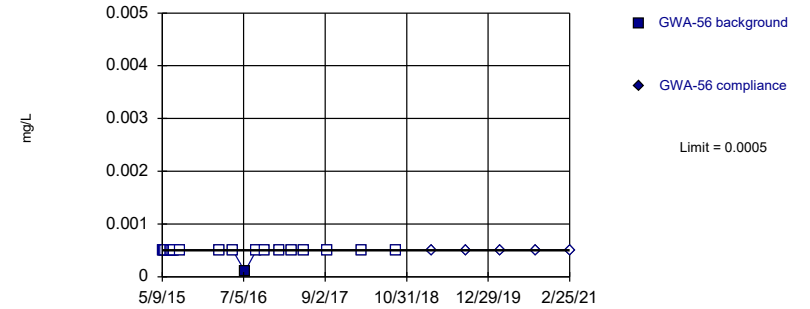


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

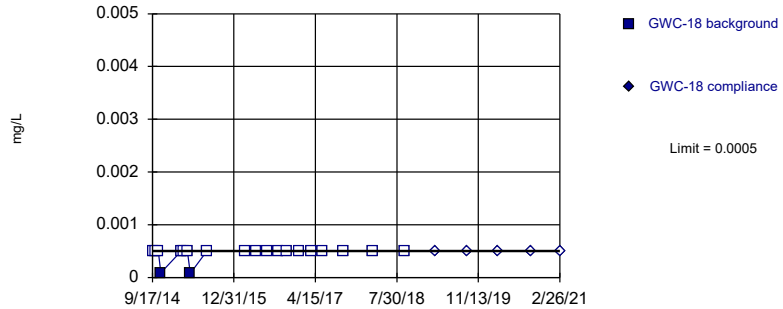


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

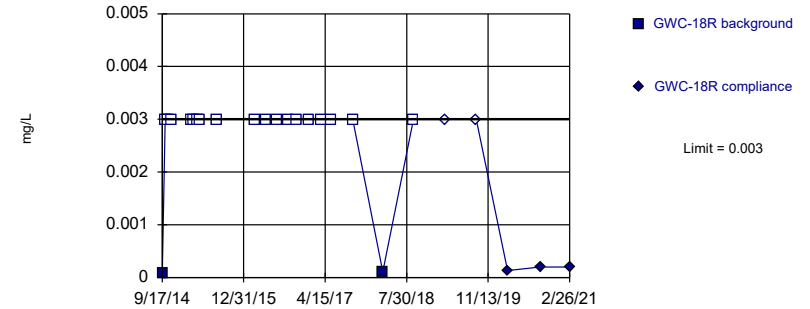


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

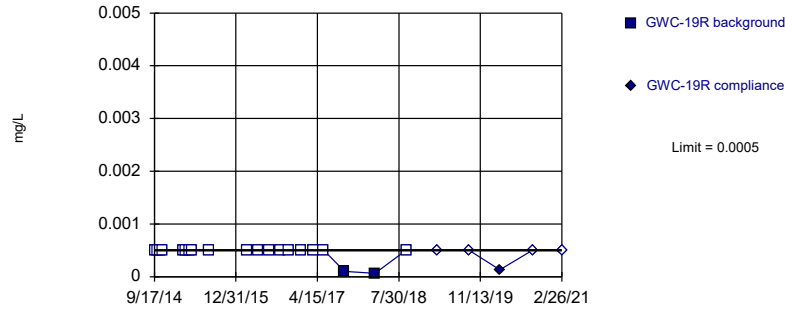


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

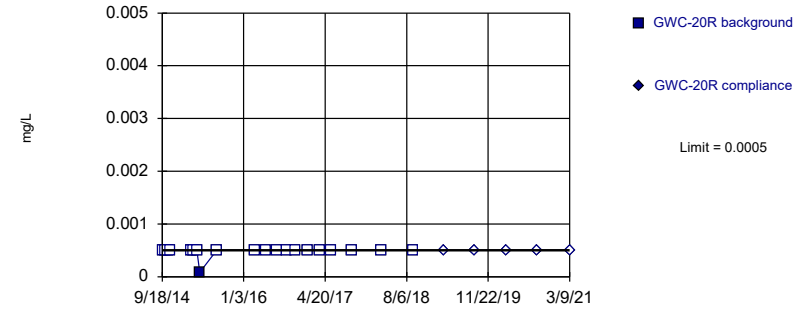


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

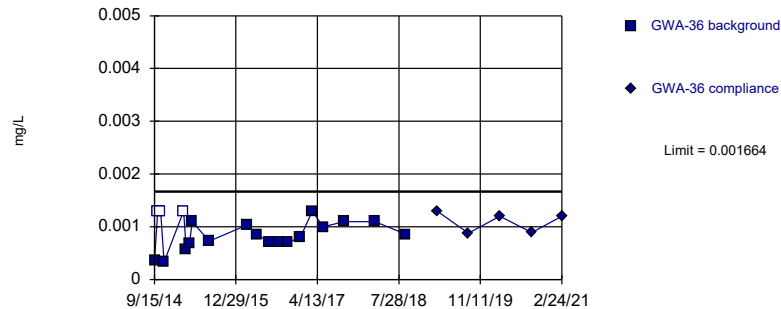


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Beryllium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

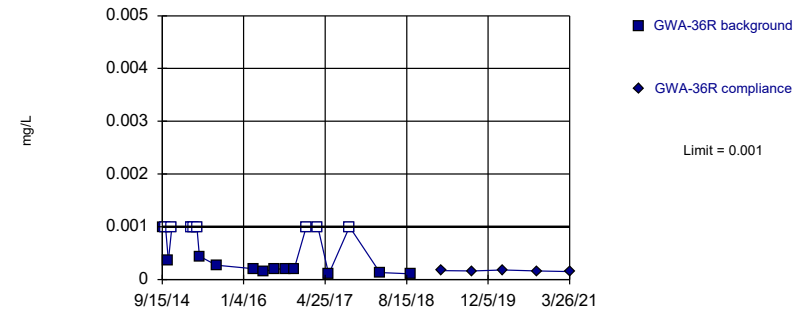


Background Data Summary: Mean=0.0008898, Std. Dev.=0.000302, n=20, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

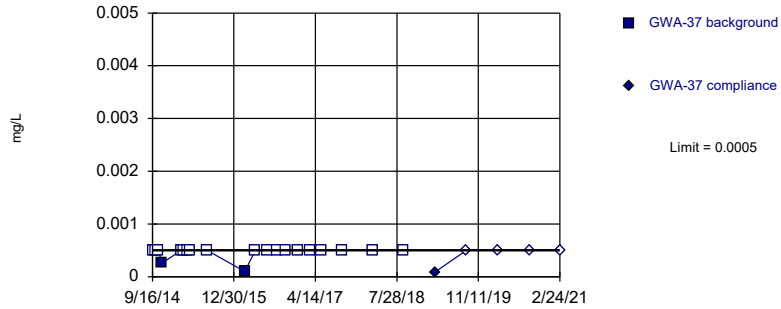


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

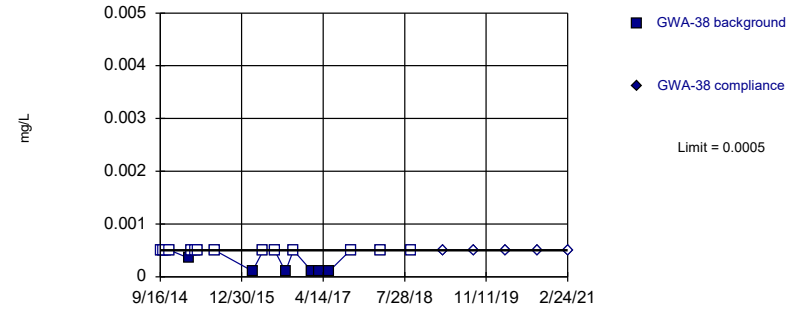


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

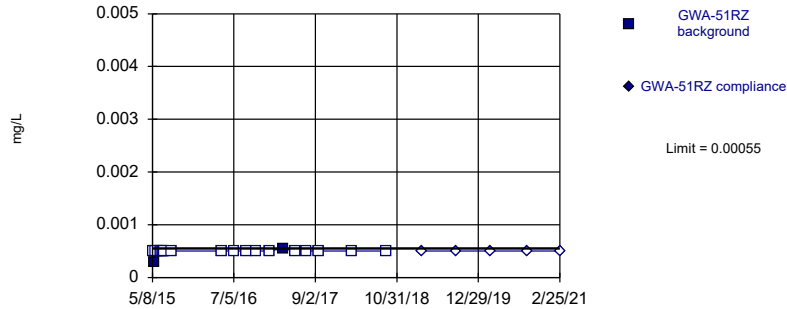


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

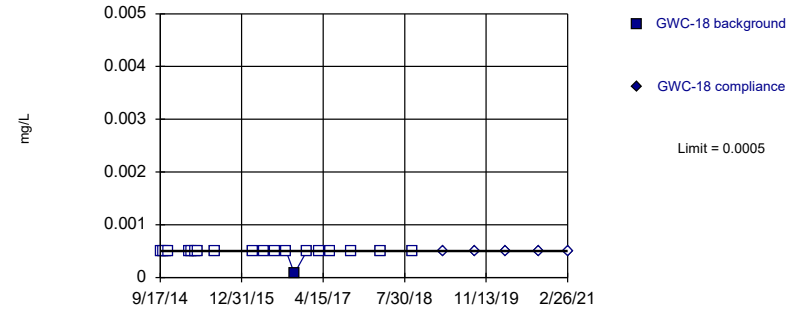


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

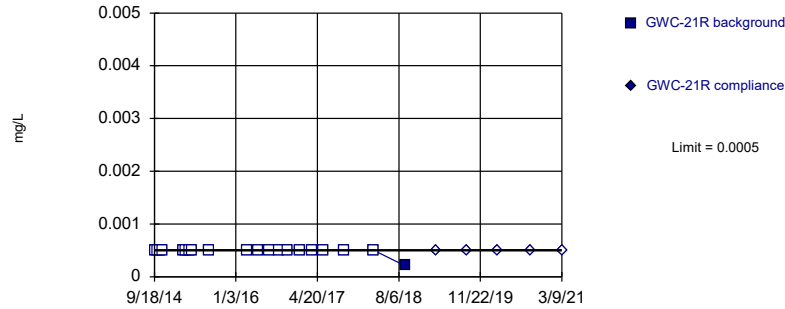


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

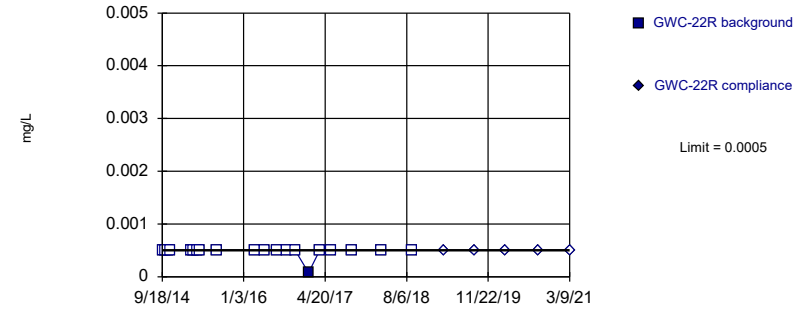


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

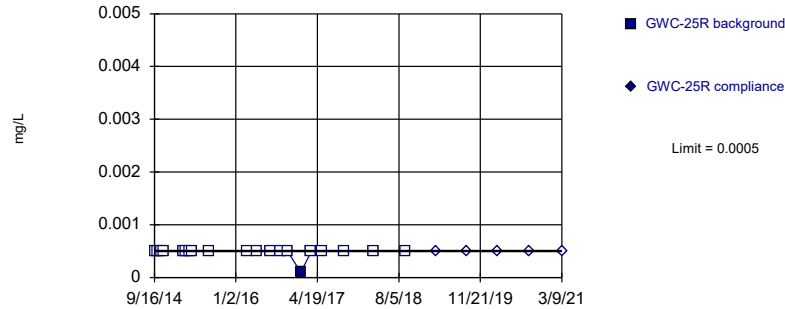


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

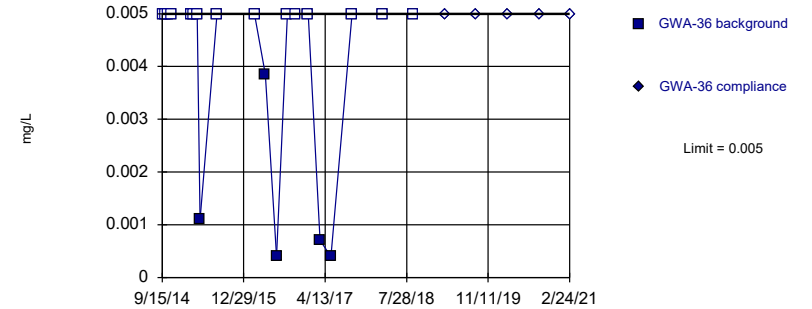


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

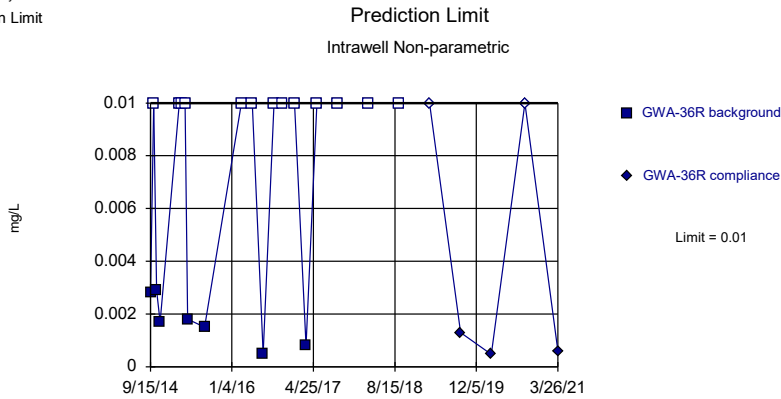
Prediction Limit
Intrawell Non-parametric



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: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

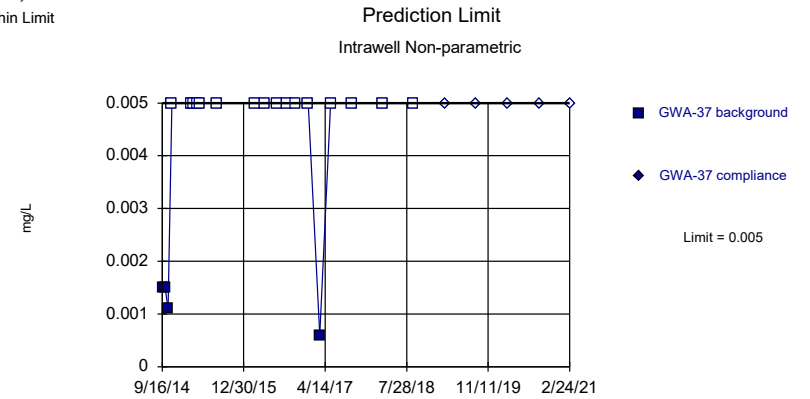
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

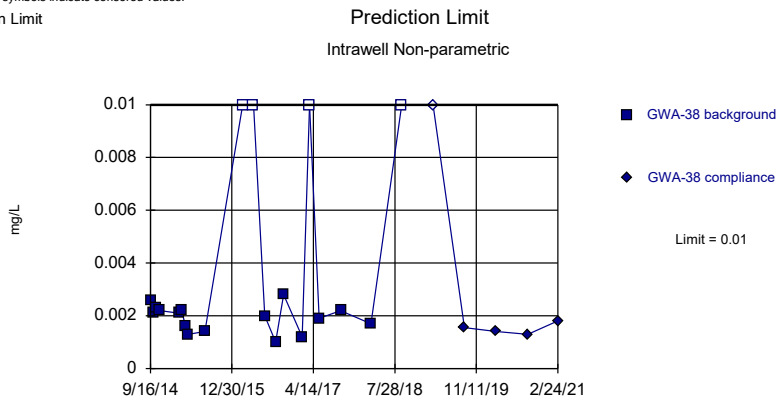
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

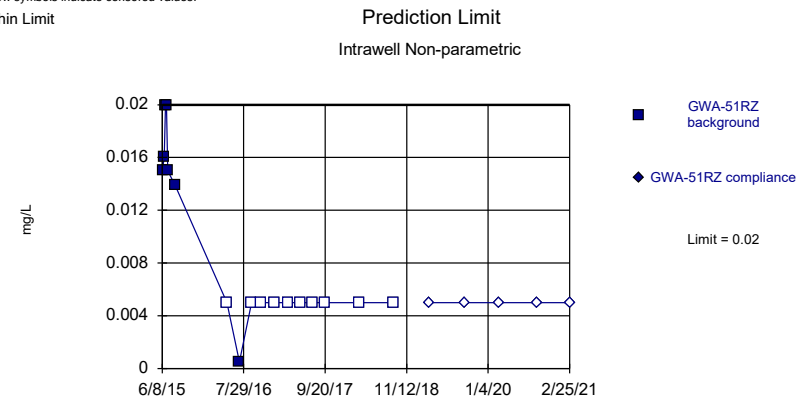
Within Limit



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 20 background values. 20% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

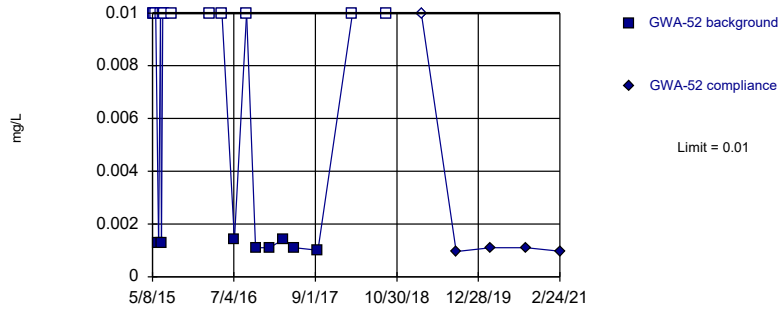


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

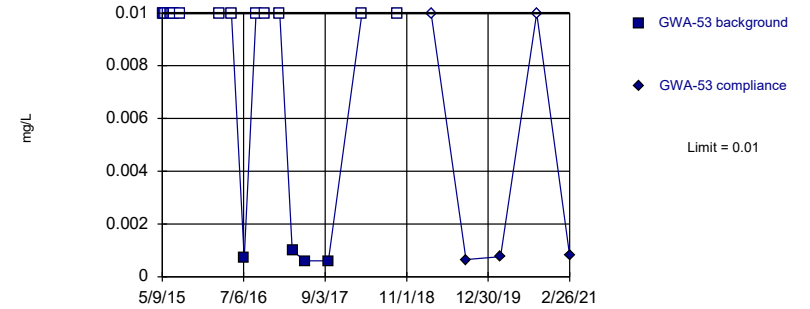


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 60% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:37 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

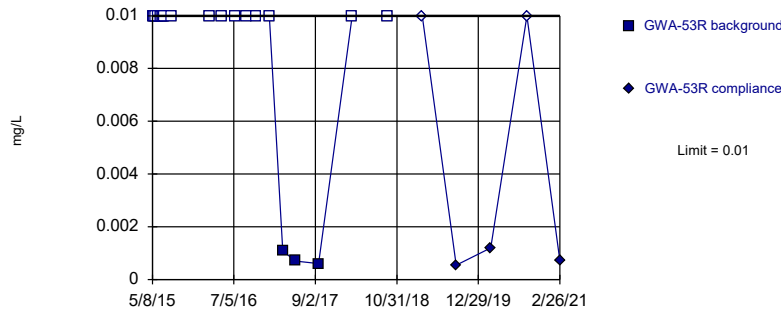


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

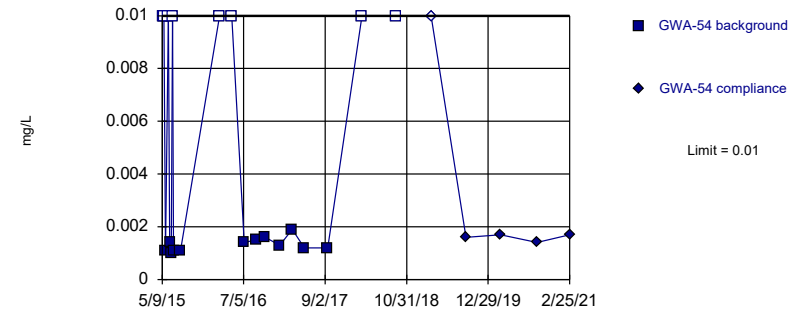


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

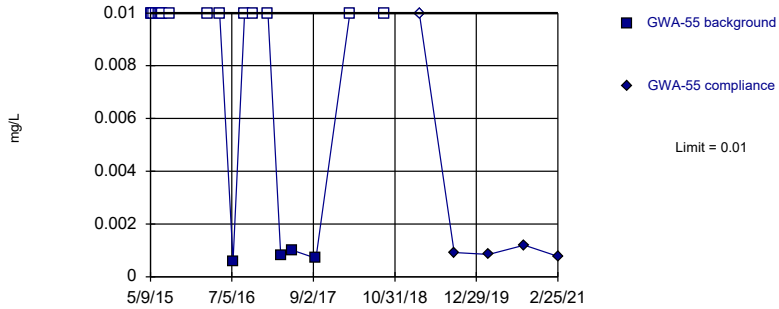


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

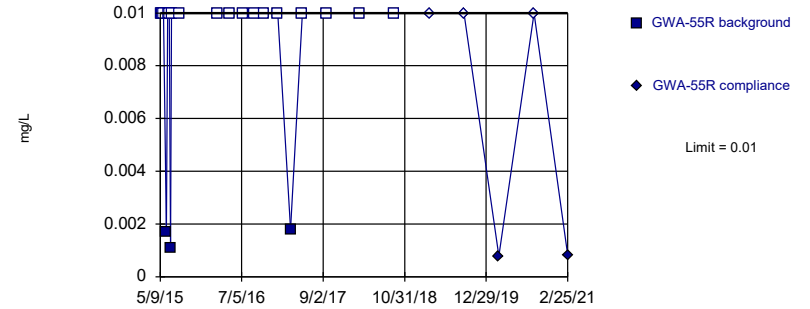


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

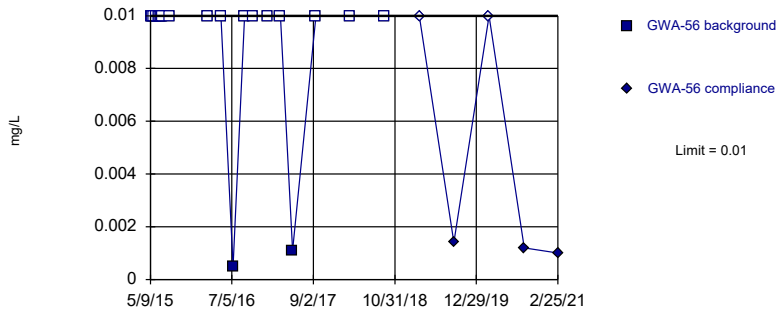


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

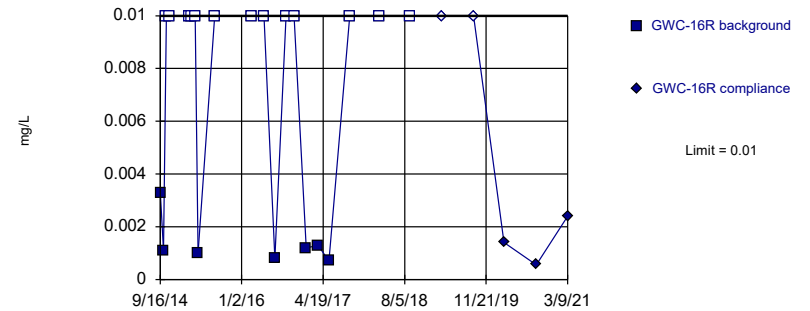


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

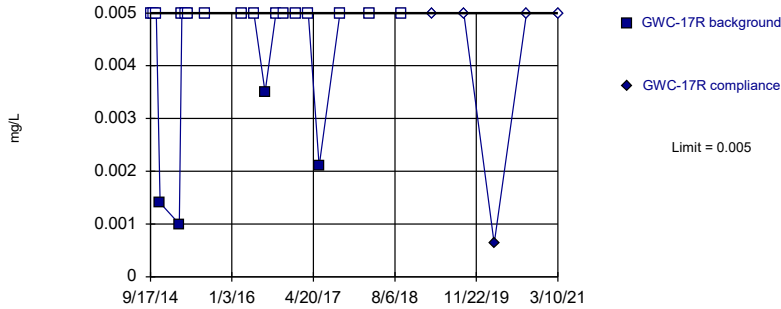


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

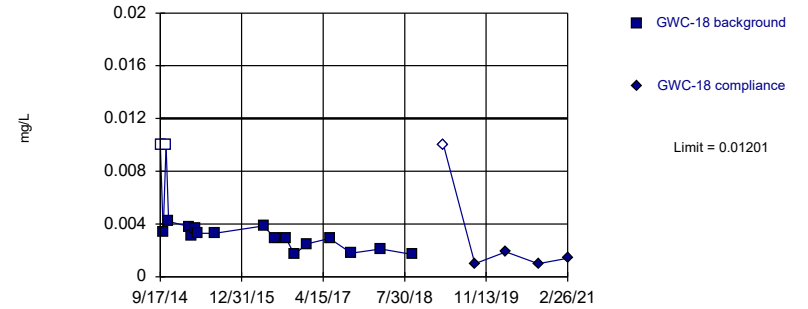


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

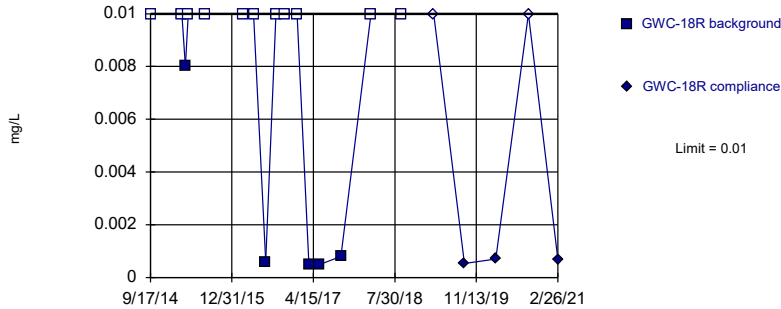


Background Data Summary (based on natural log transformation): Mean=-5.726, Std. Dev.=0.4943, n=18, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8669, critical = 0.858. Kappa = 2.637 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

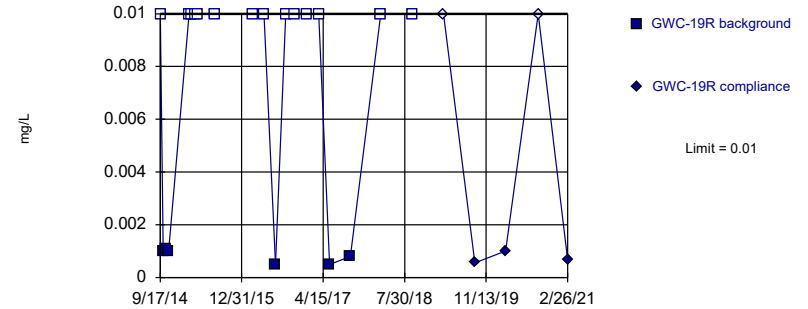


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 68.75% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

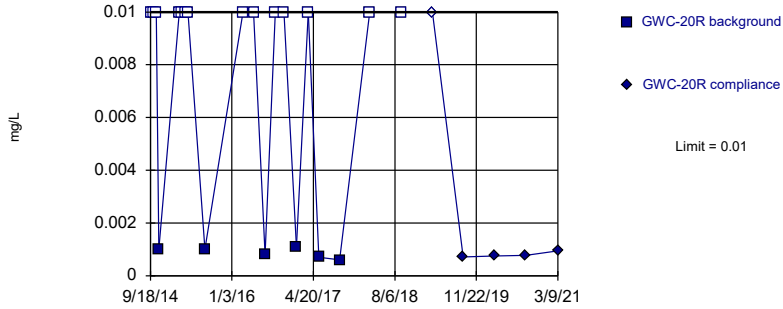
Prediction Limit
 Intrawell Non-parametric



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 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

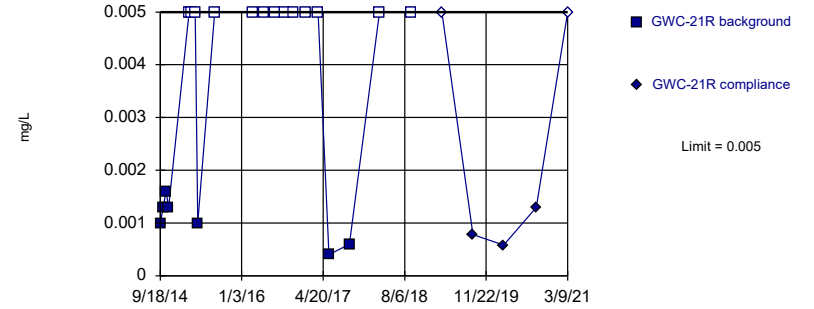
Within Limit
Prediction Limit
Intrawell Non-parametric



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 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

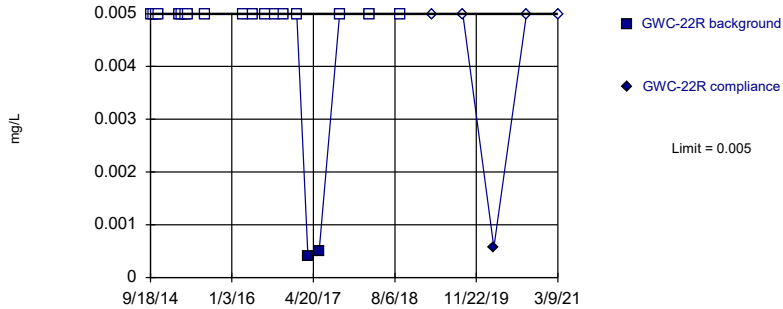
Within Limit
Prediction Limit
Intrawell Non-parametric



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 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

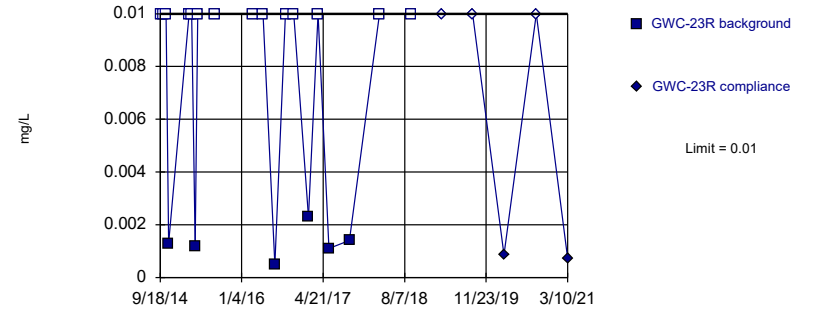
Within Limit
Prediction Limit
Intrawell Non-parametric



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 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit
Prediction Limit
Intrawell Non-parametric

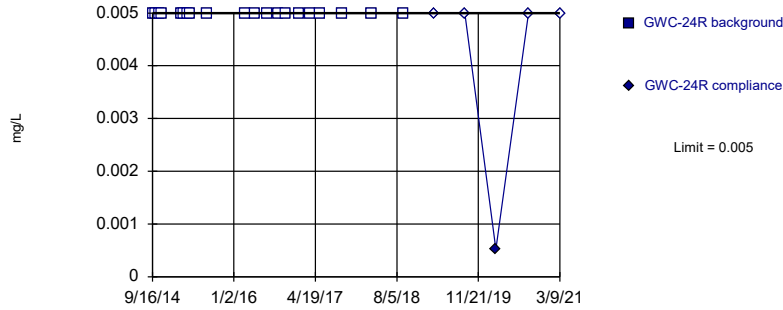


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

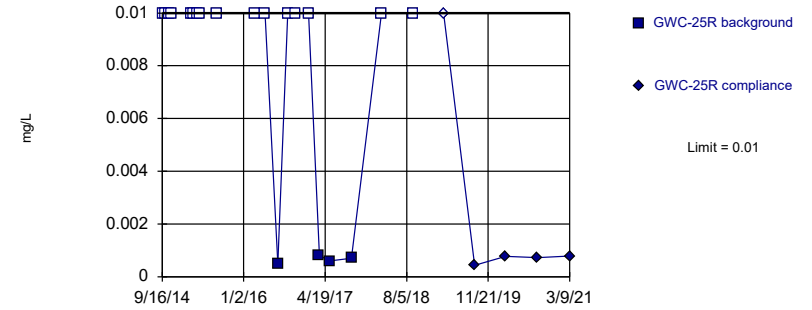


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

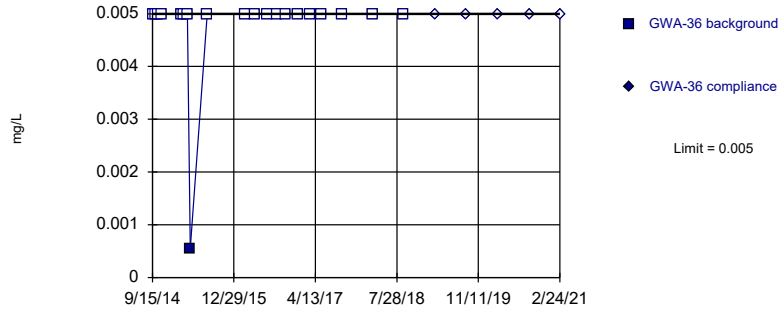


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Chromium Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

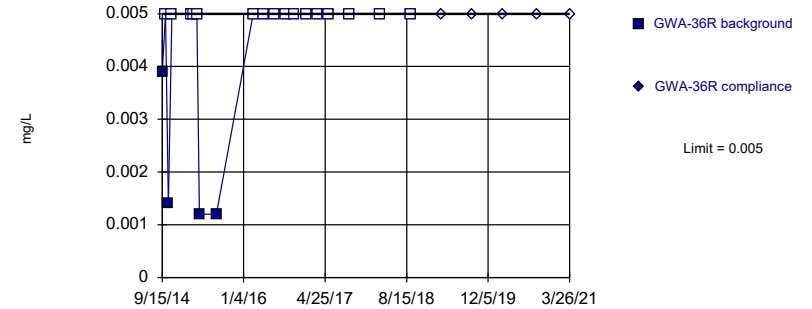


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

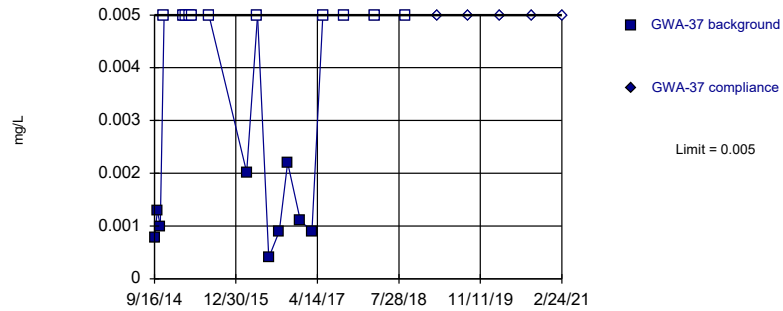


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

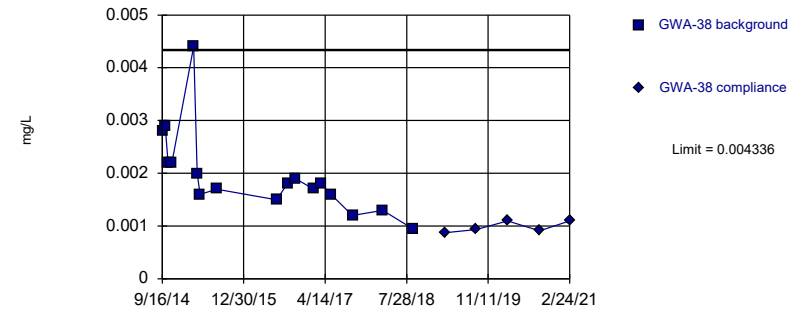


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

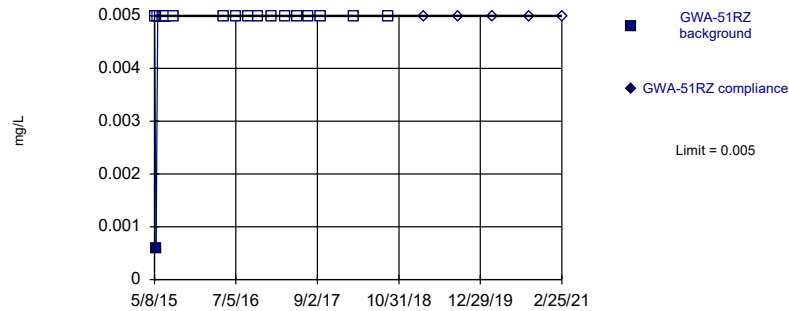


Background Data Summary (based on square root transformation): Mean = 0.004368, Std. Dev. = 0.008291, n = 17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.851. Kappa = 2.673 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

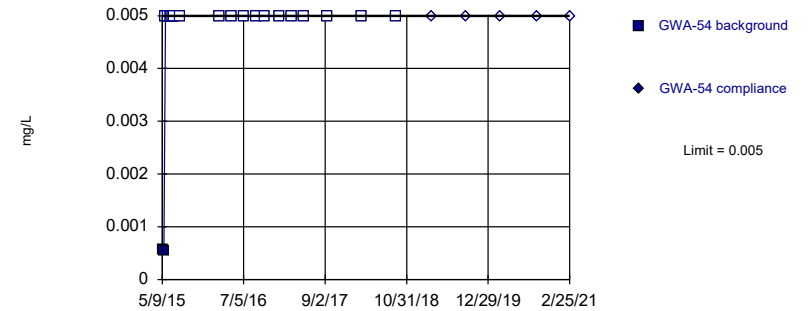


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

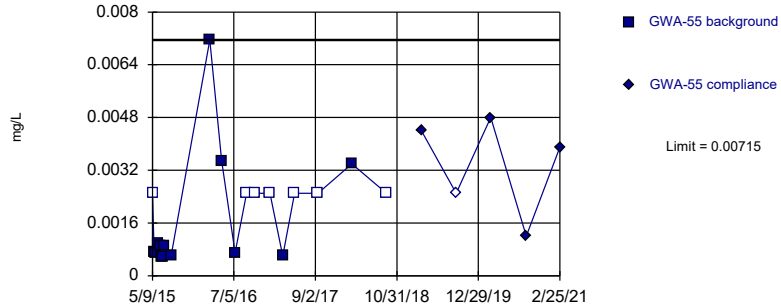


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

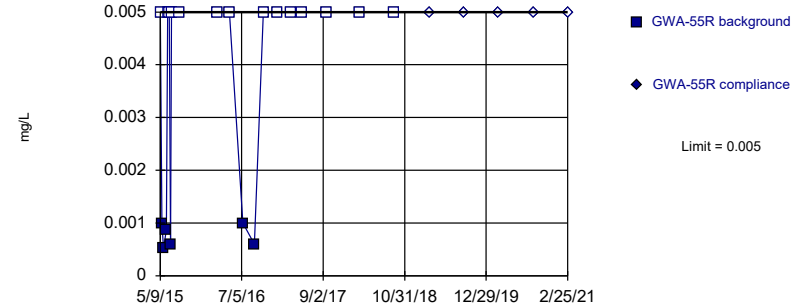


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 35% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

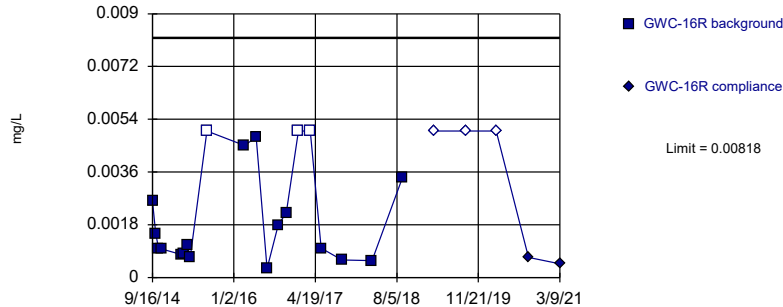


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

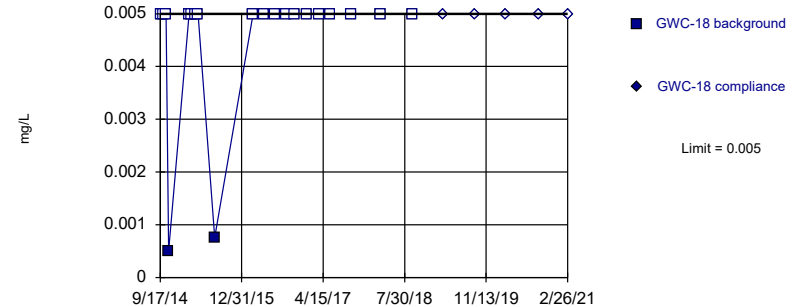


Background Data Summary (based on square root transformation): Mean=0.0431, Std. Dev.=0.01846, n=20, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8744, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

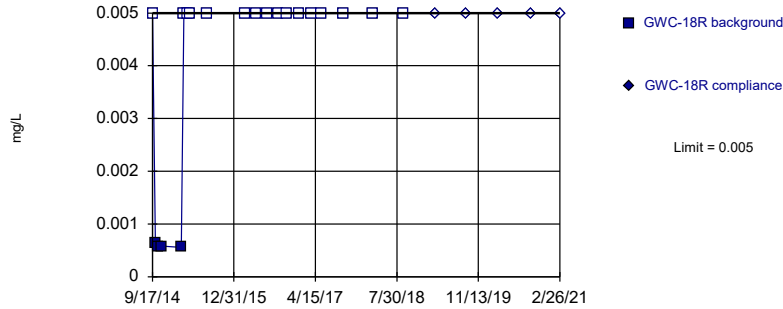


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

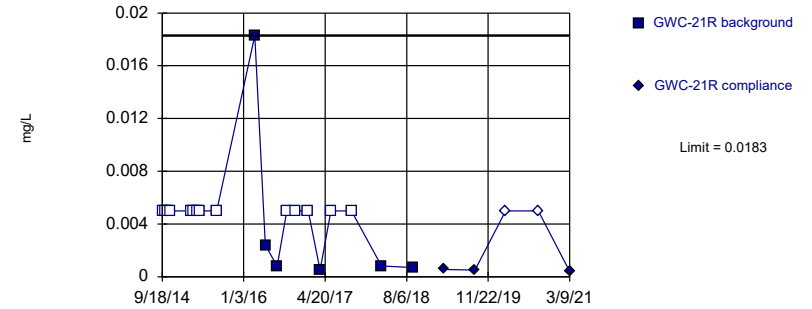


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

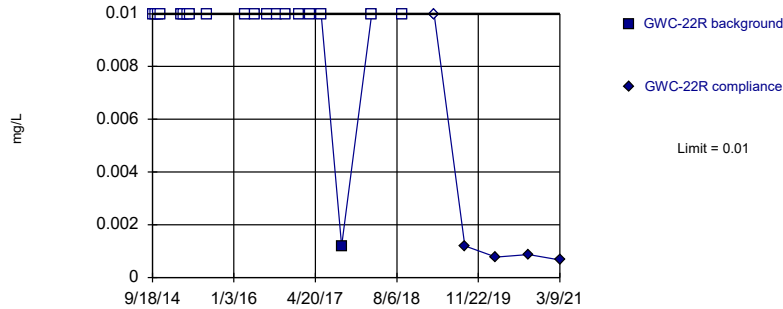


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

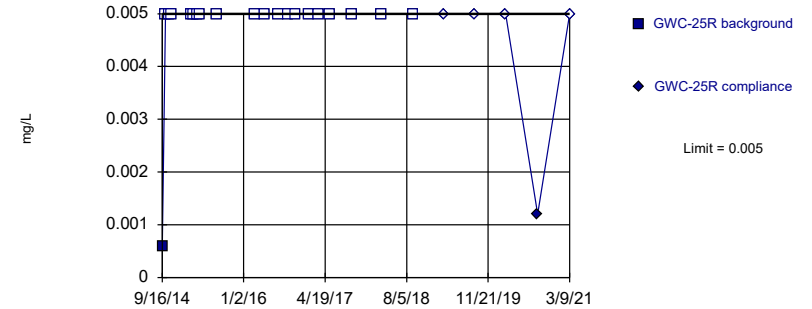


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

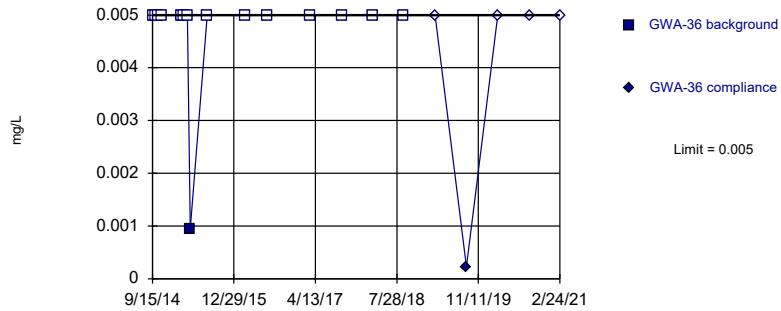


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cobalt Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

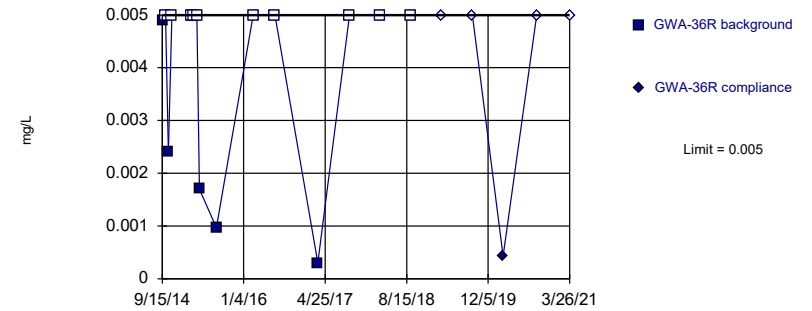


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

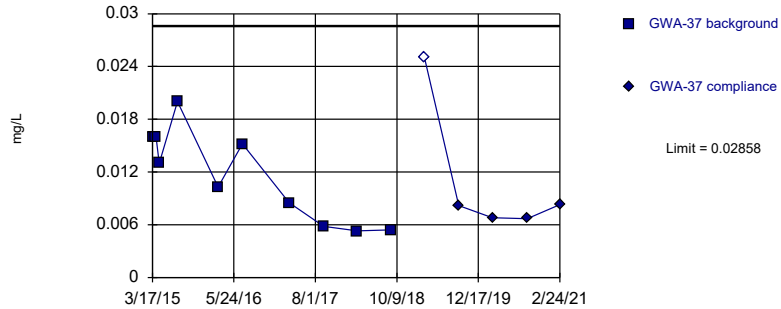


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

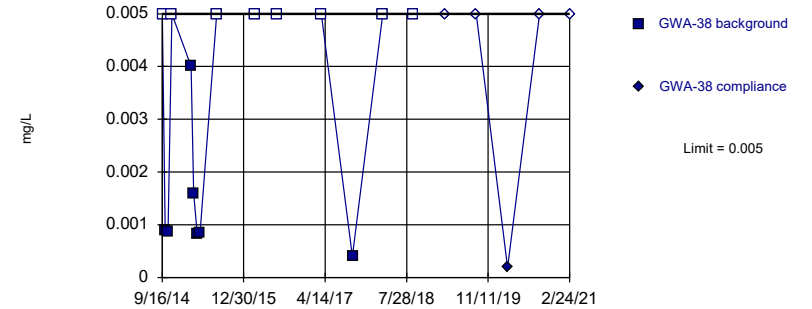


Background Data Summary: Mean=0.01155, Std. Dev.=0.005241, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9145, critical = 0.781. Kappa = 3.25 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

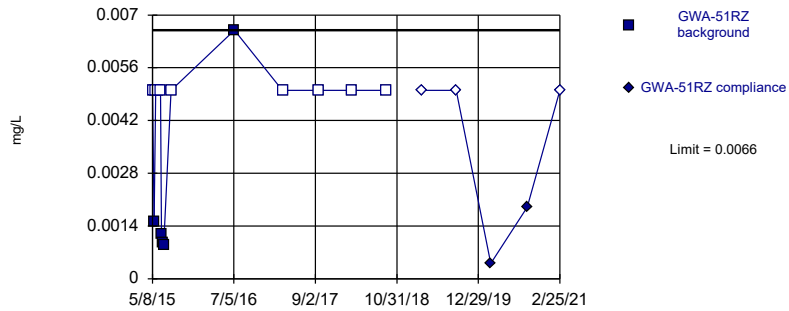


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

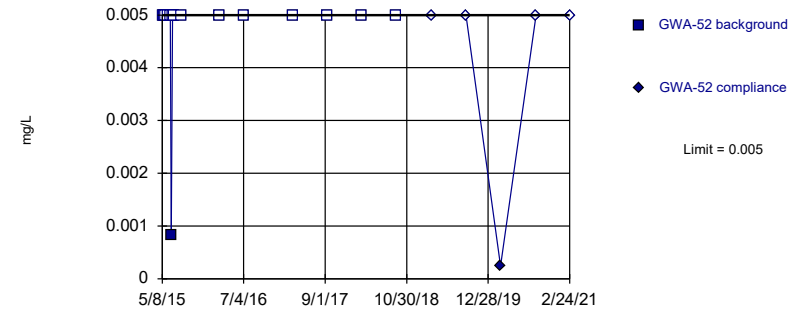


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

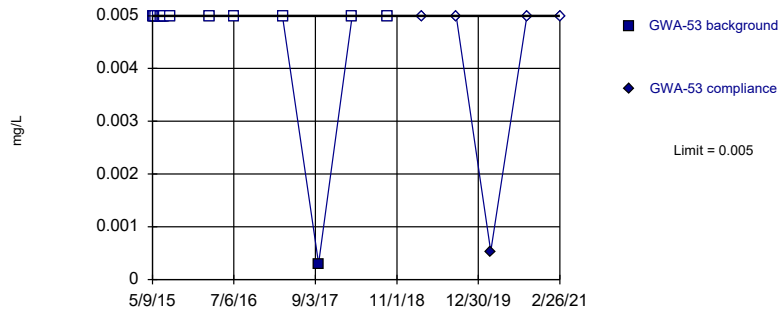


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

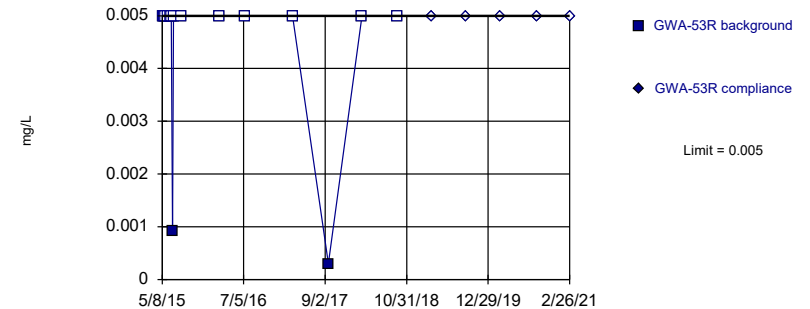


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

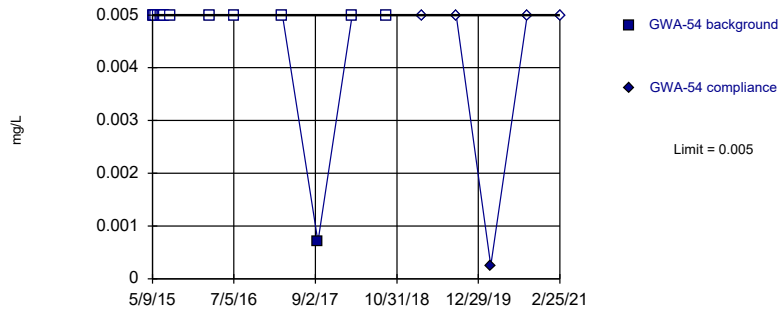


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

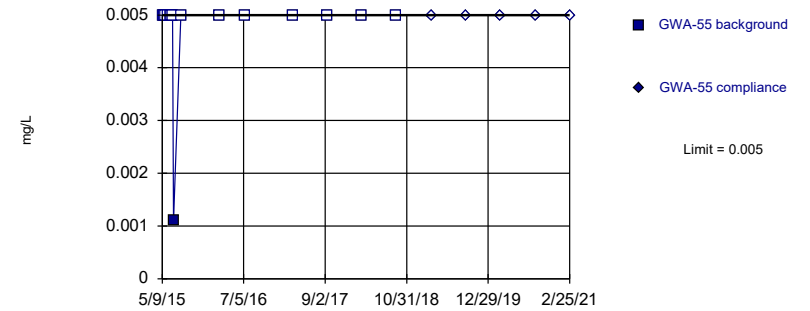


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

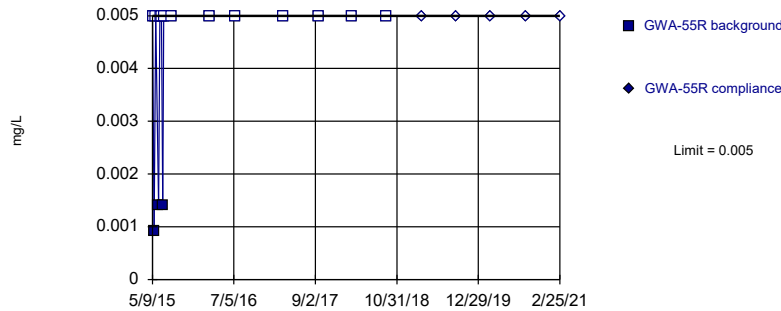


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

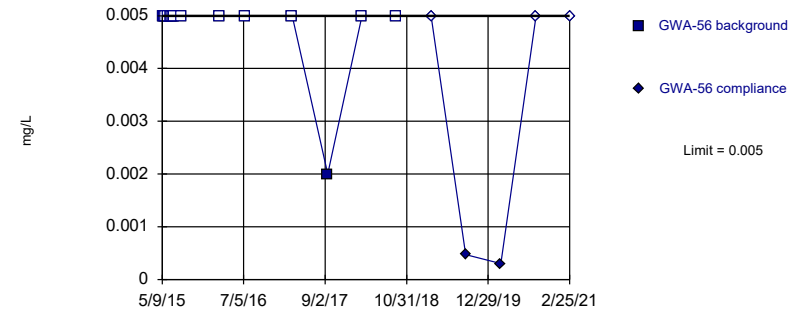


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

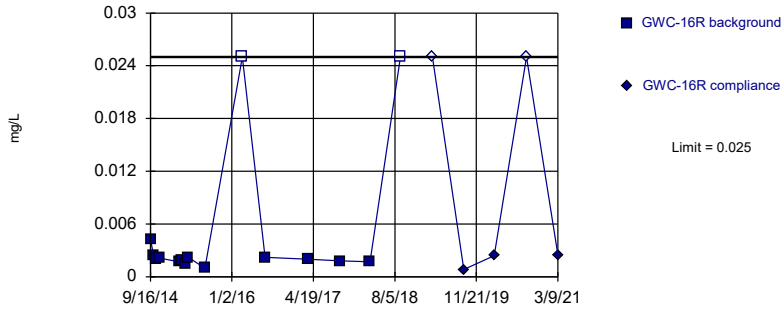


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

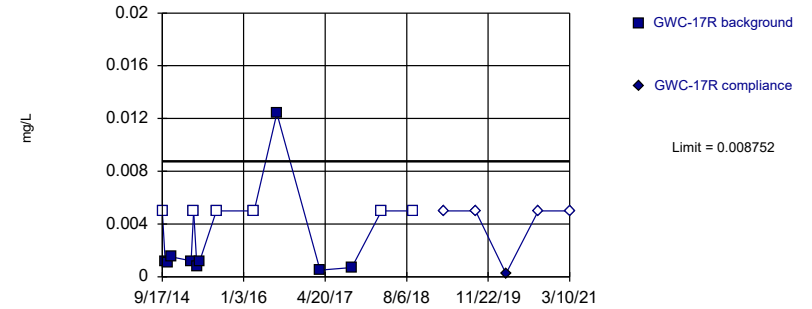


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 13.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

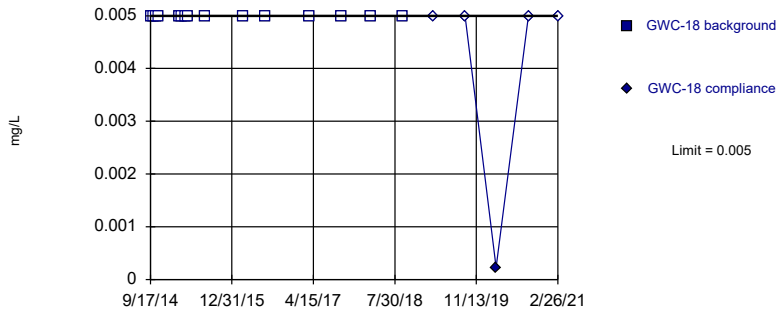


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03537, Std. Dev.=0.02093, n=15, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.841, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

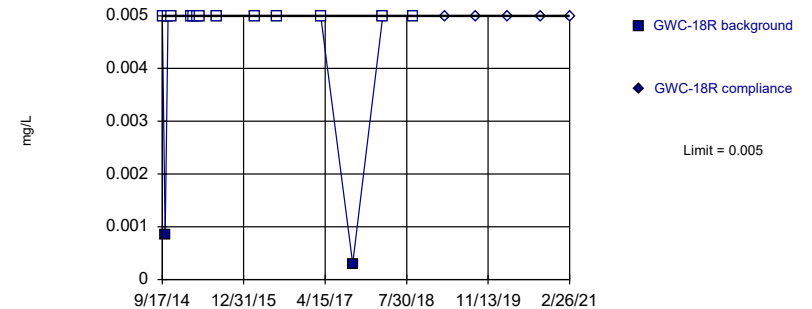


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

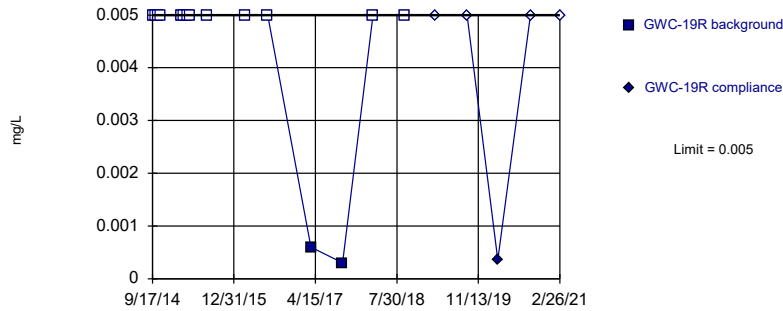


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

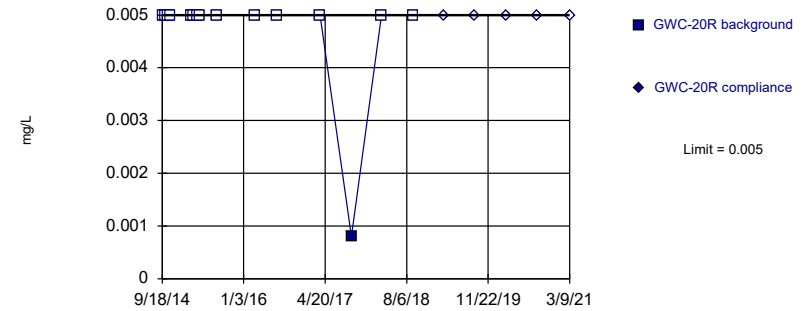


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

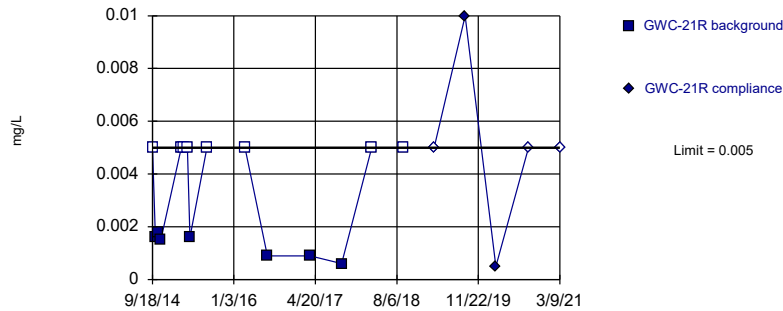


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

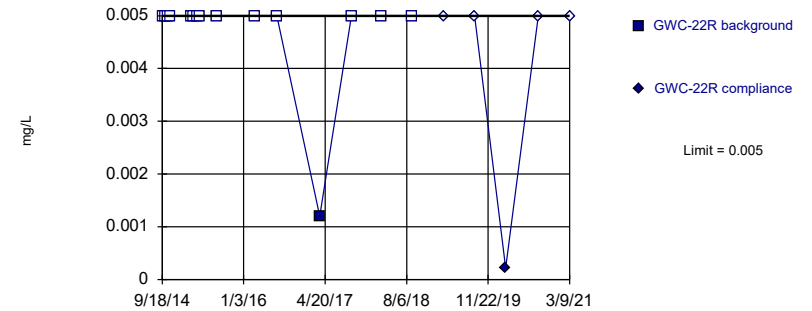


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

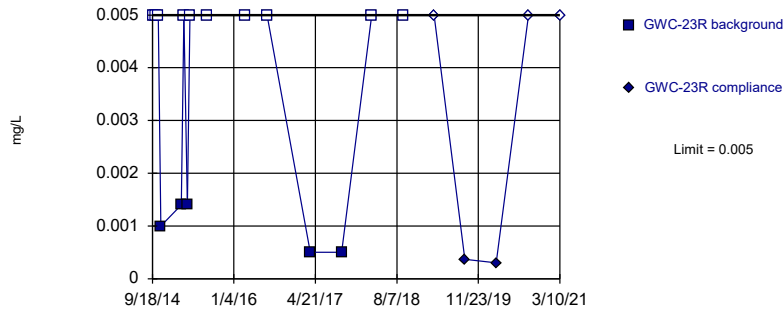


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

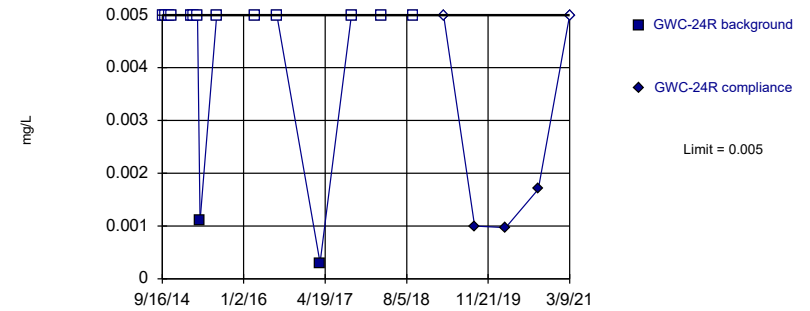


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

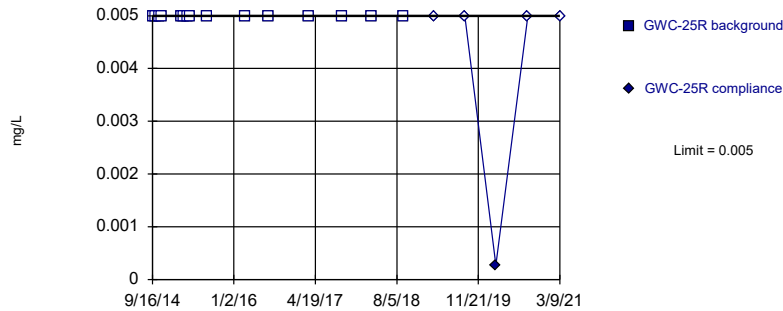


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

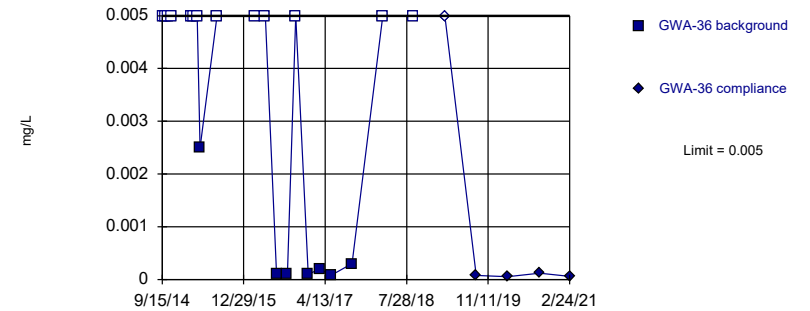


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Copper Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

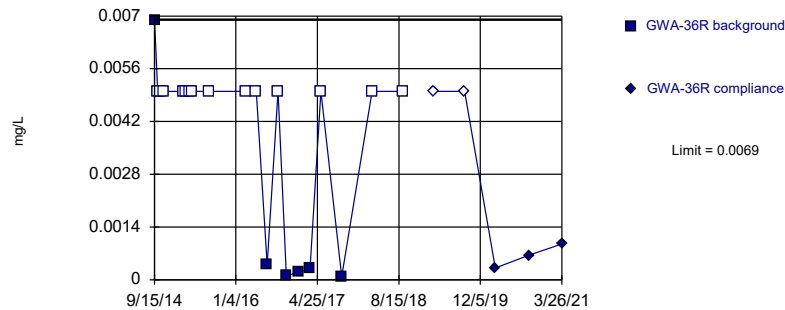


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

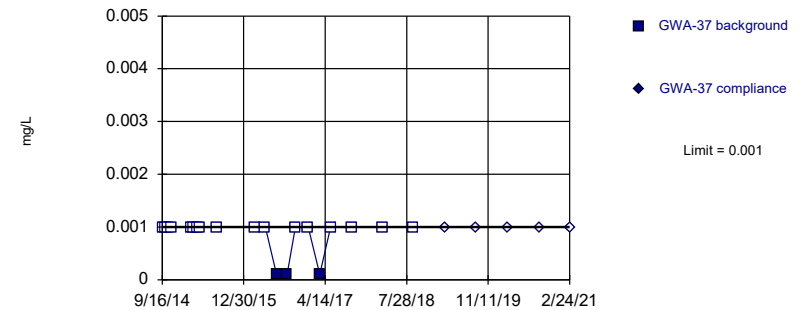


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

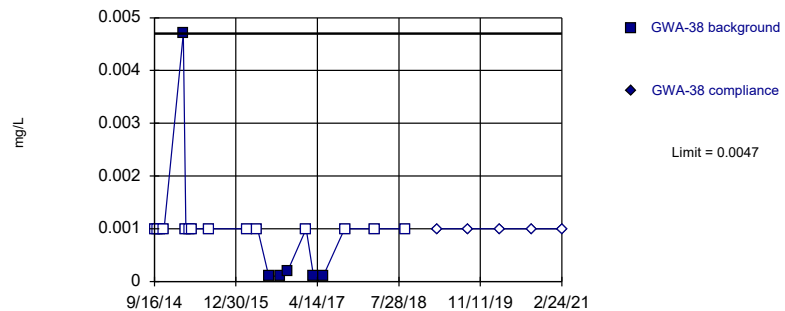


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

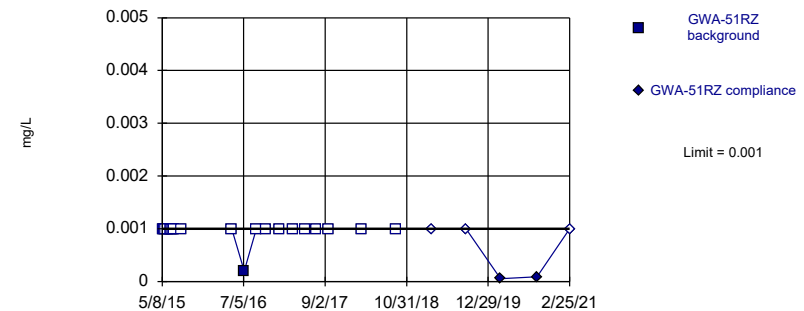


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

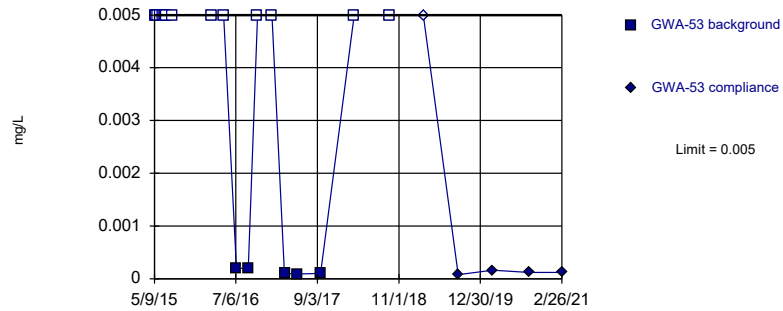


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

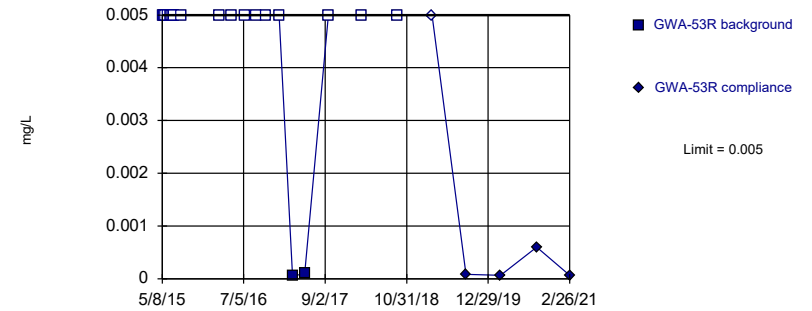


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

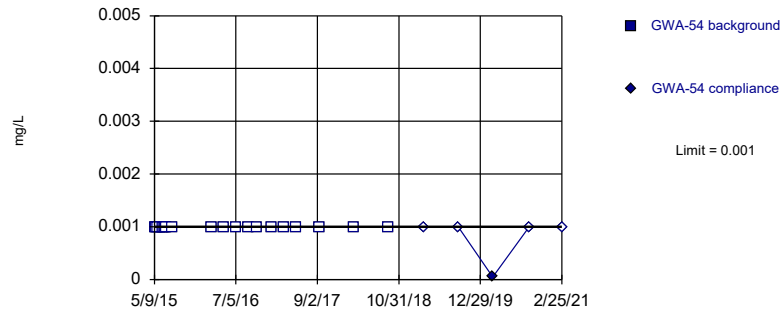


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

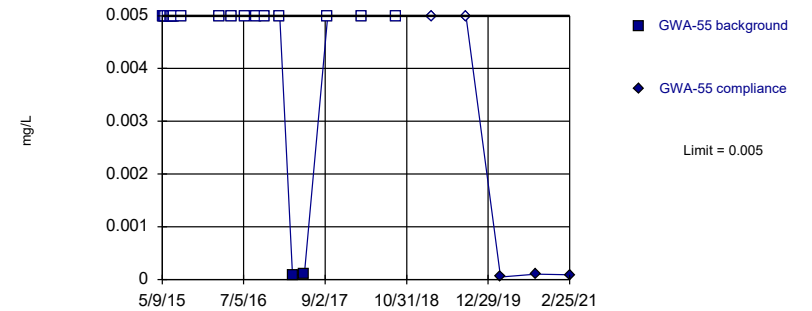


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

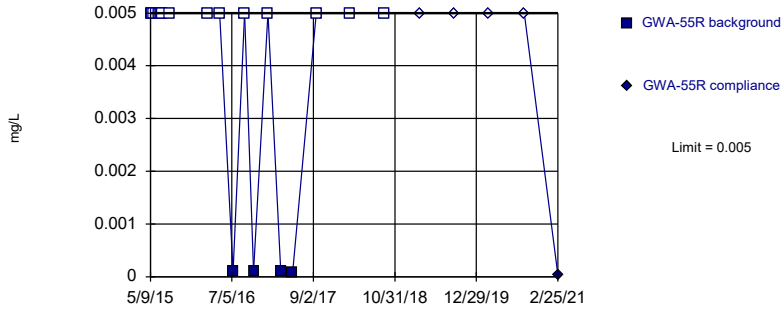


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

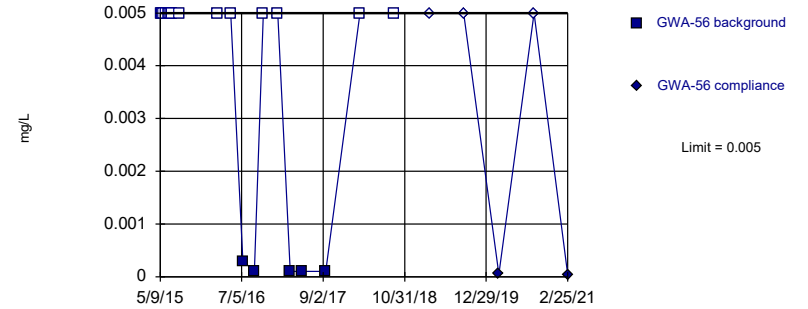


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

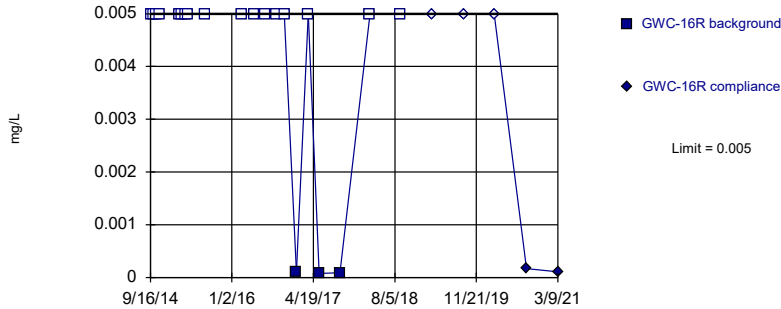


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

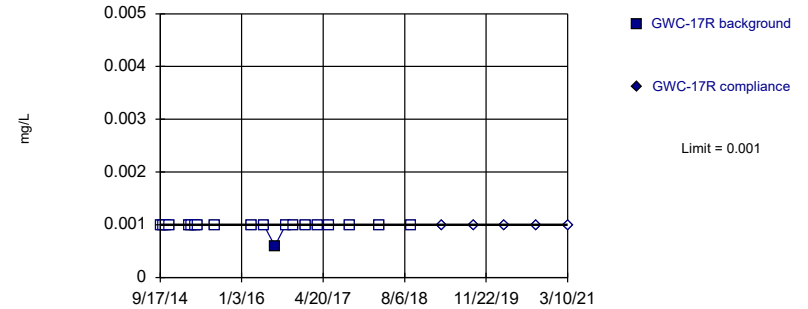


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

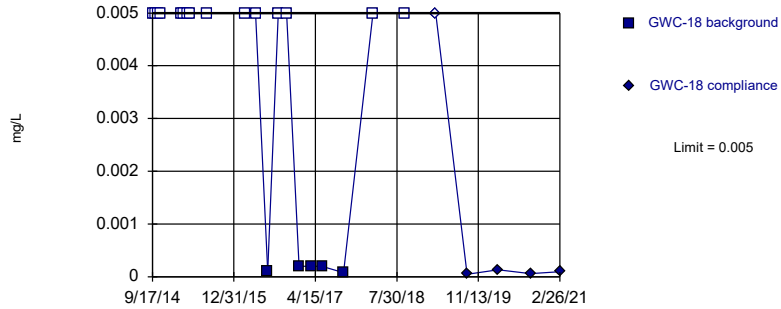


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

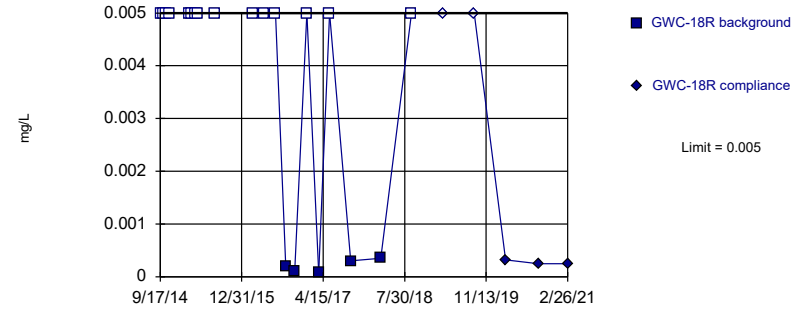


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

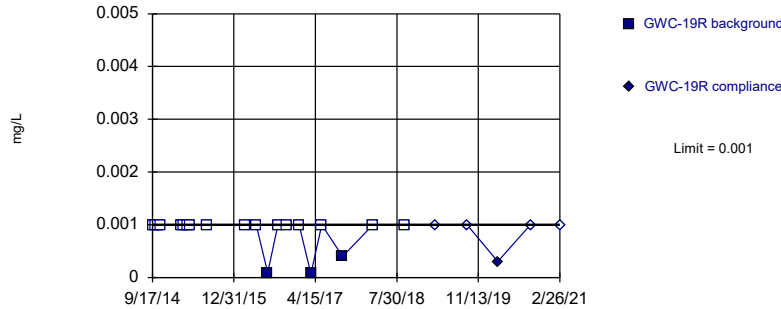


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:38 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

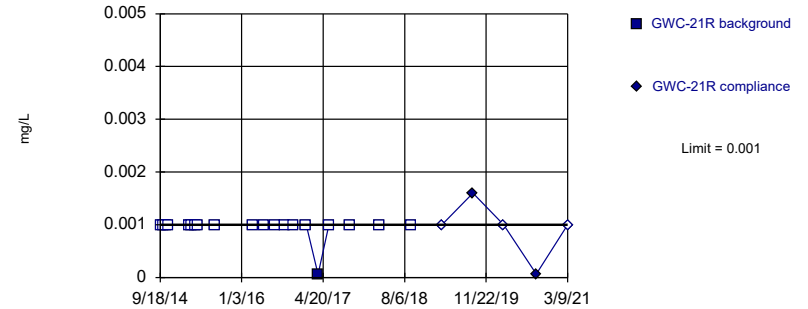


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

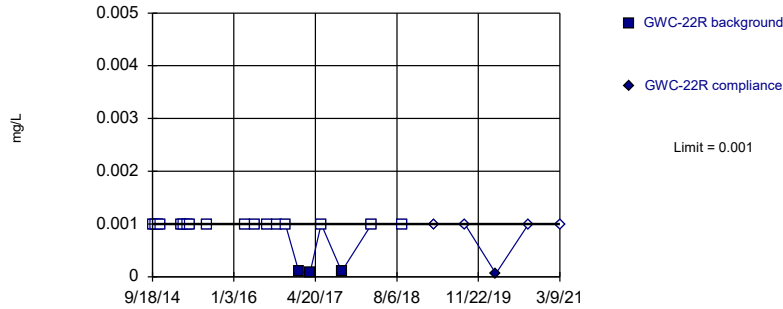


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

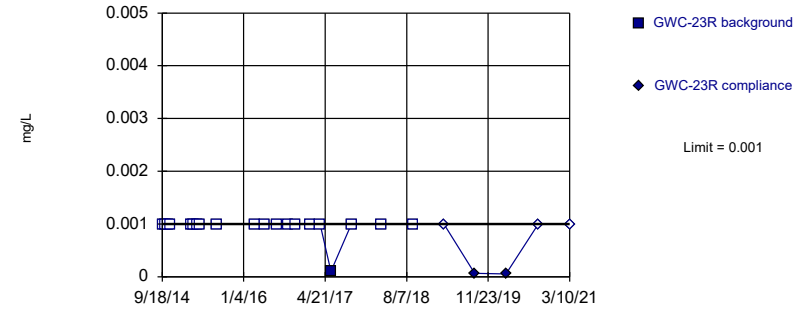


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

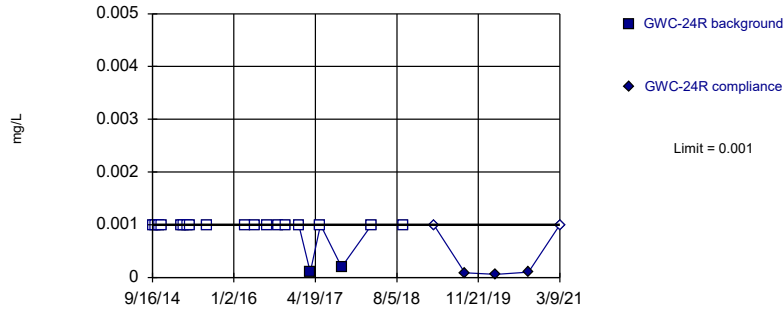


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

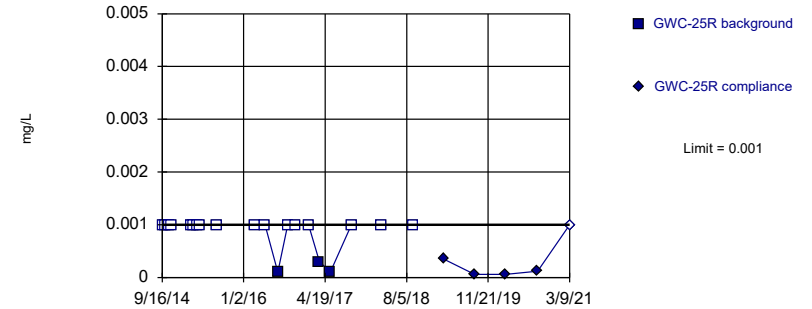


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

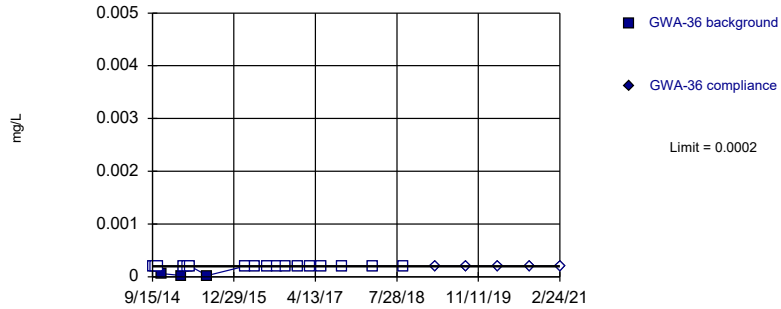


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

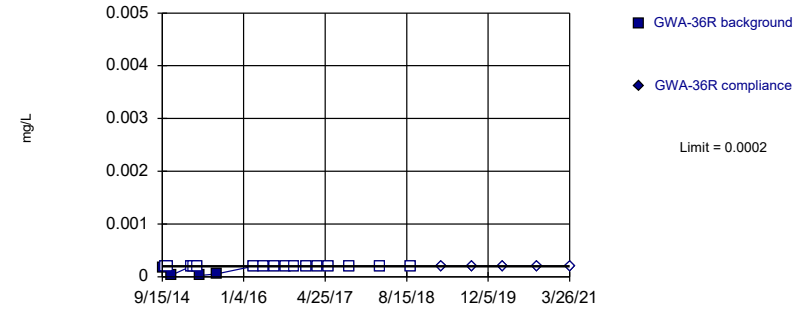


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

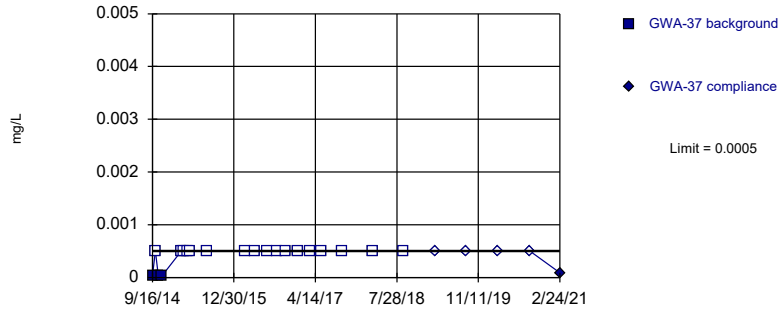


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

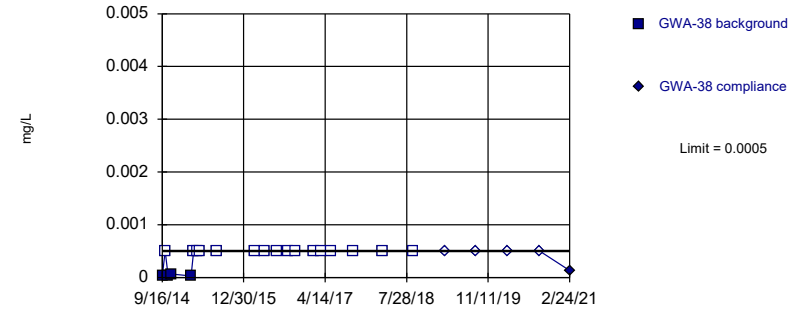


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

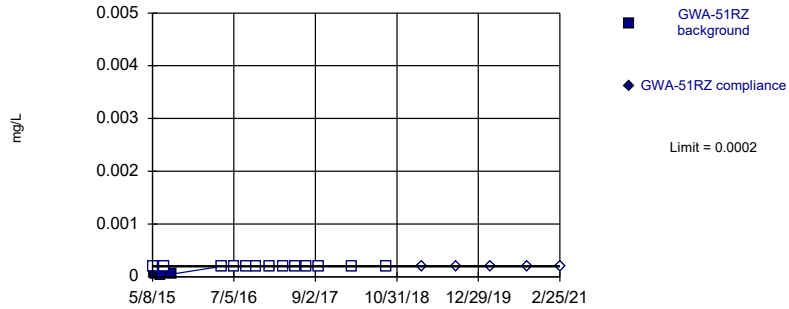


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

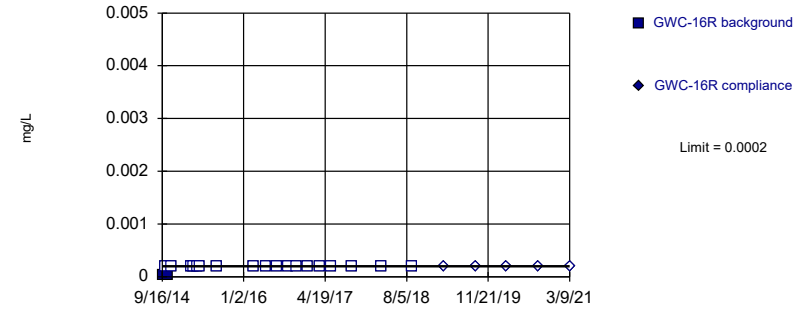


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

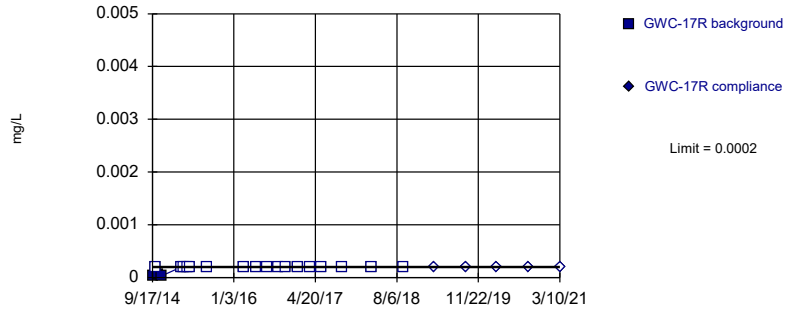


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

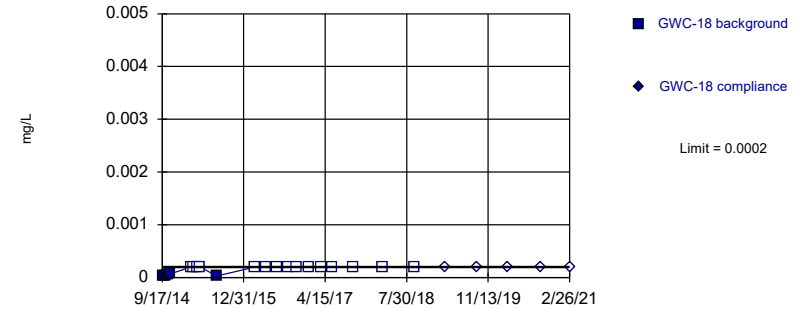


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

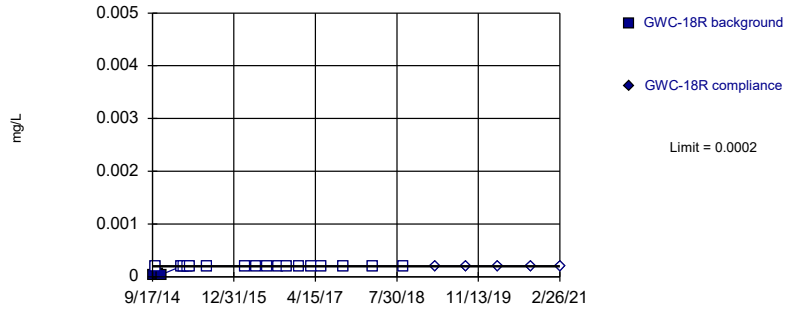


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

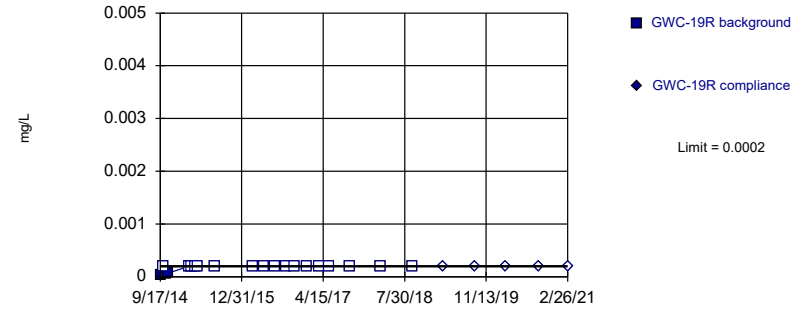


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

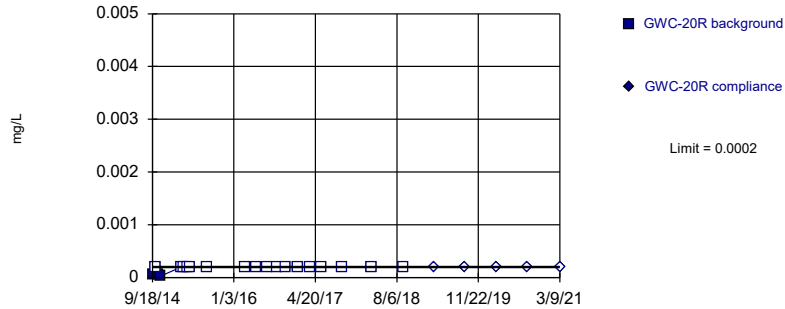


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

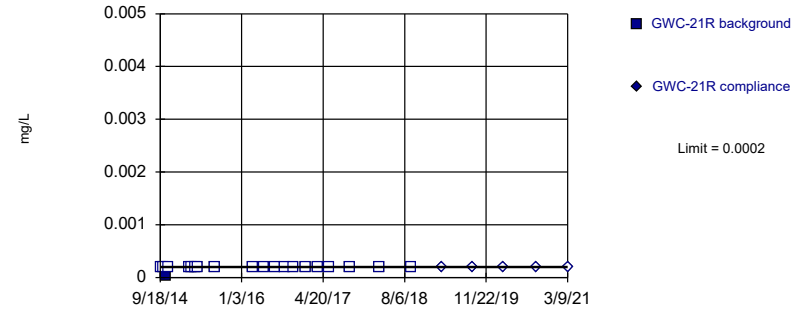


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Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

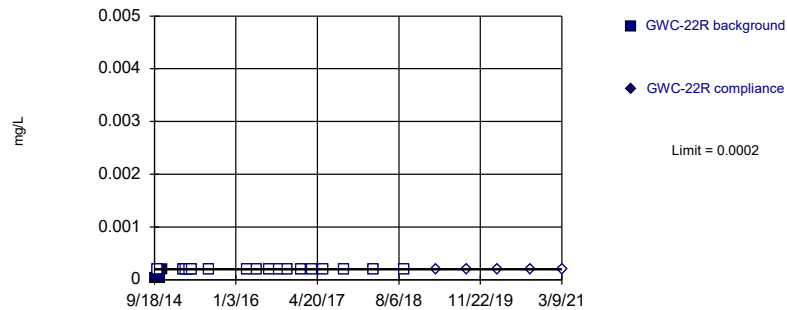


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Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

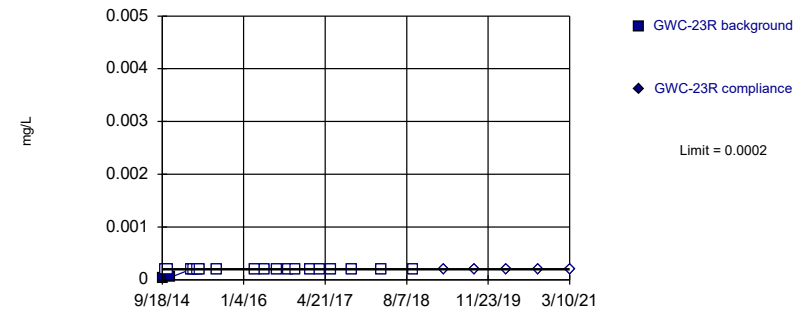


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

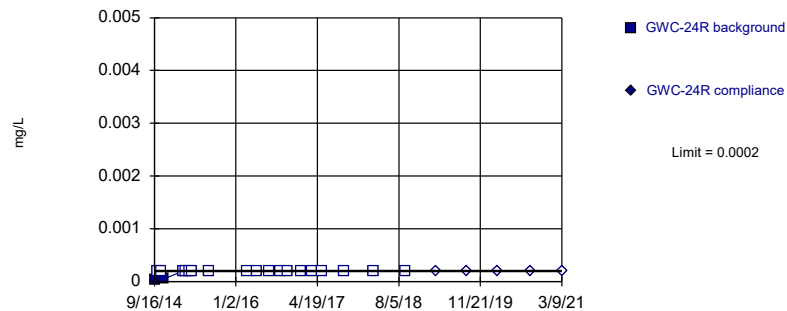


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

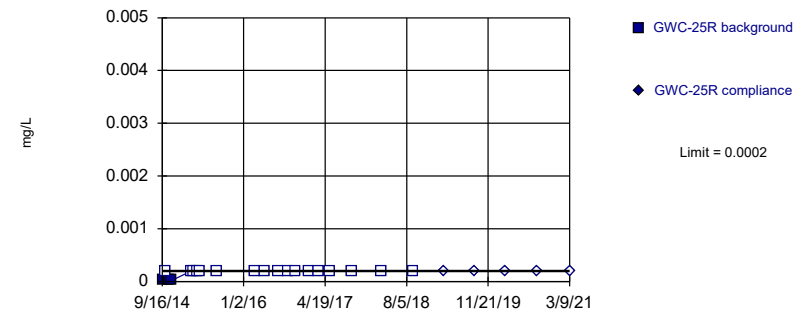


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Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

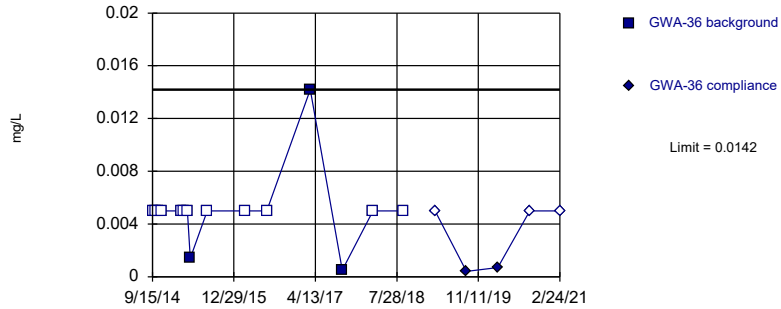


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Mercury Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

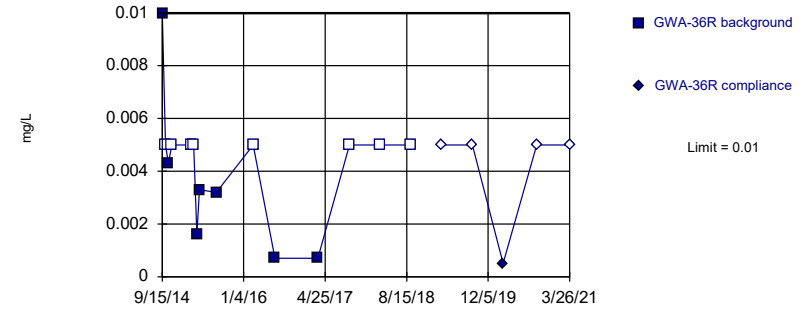


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

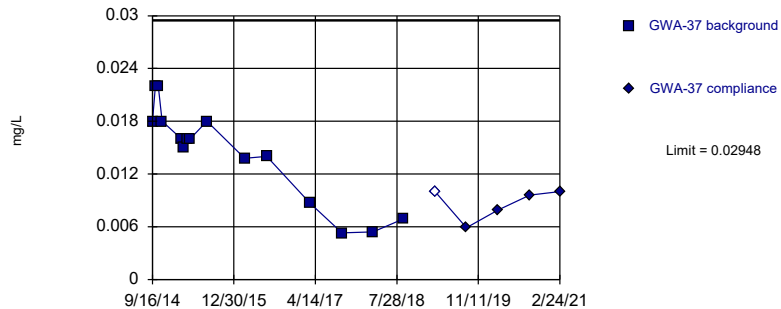


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

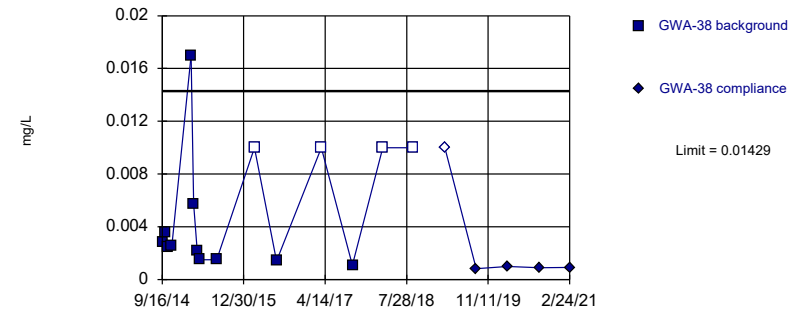


Background Data Summary: Mean=0.01434, Std. Dev.=0.005448, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9052, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

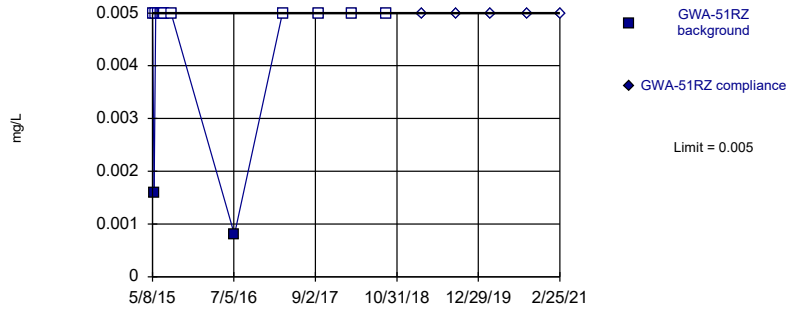


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05358, Std. Dev.=0.02374, n=15, 26.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8698, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

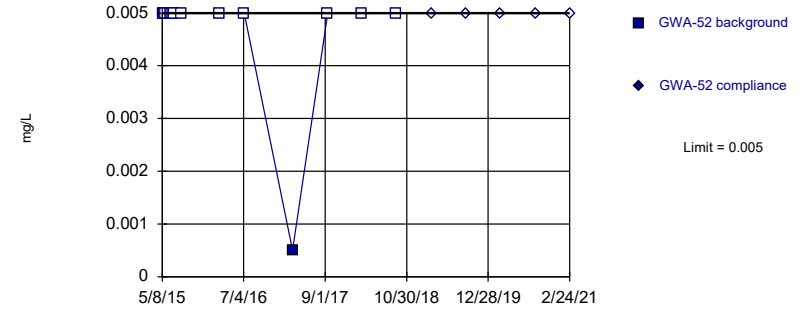


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

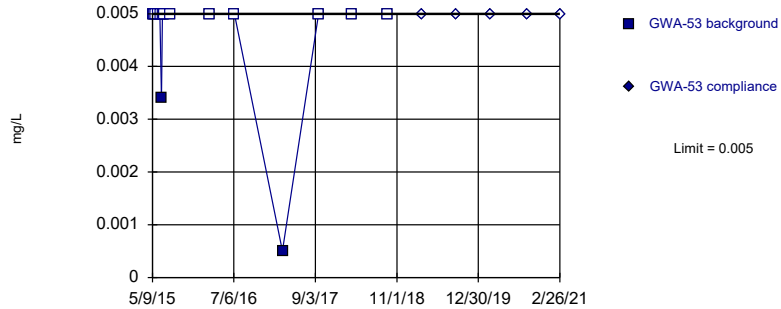


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

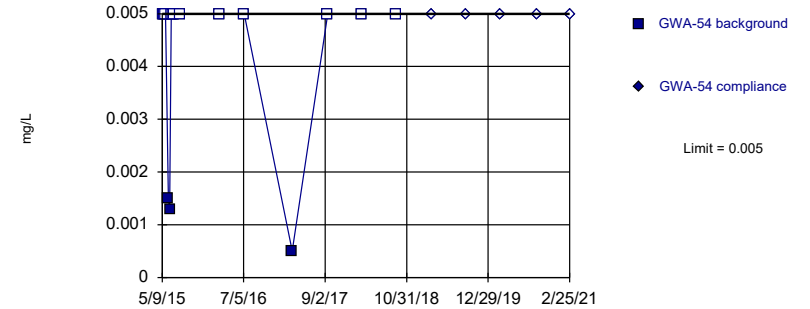


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

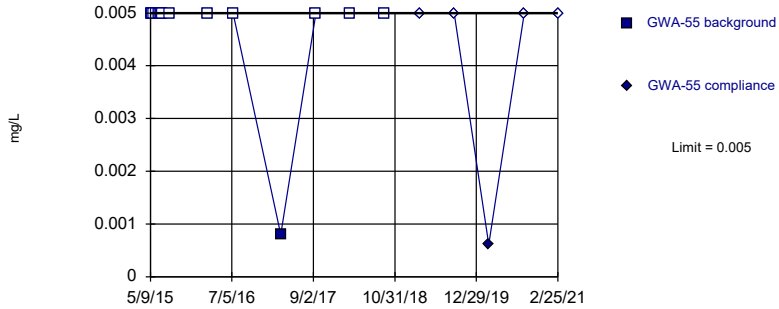


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

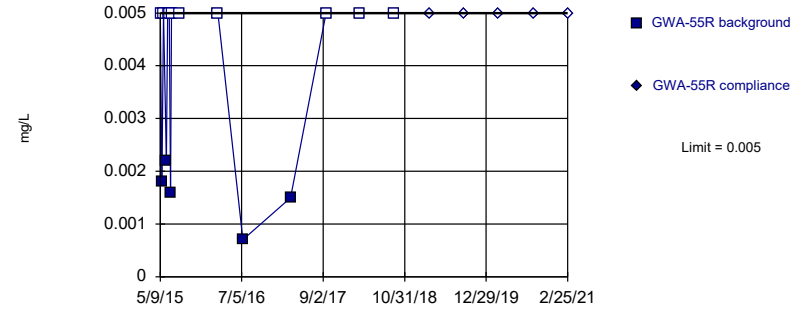


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

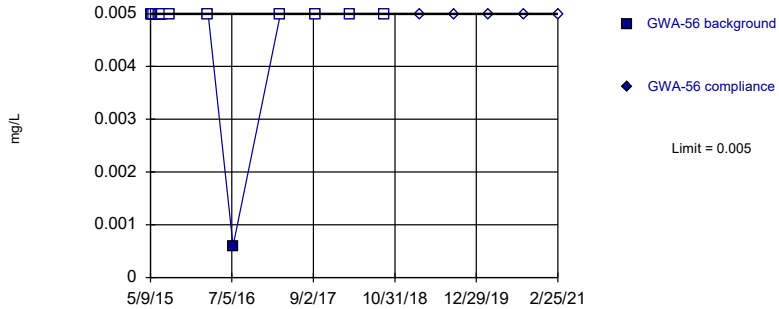


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

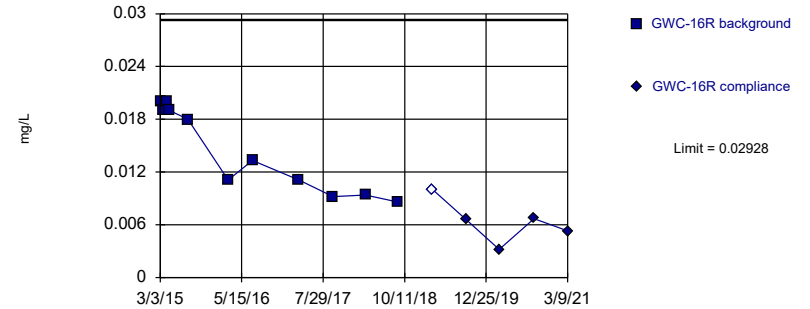


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

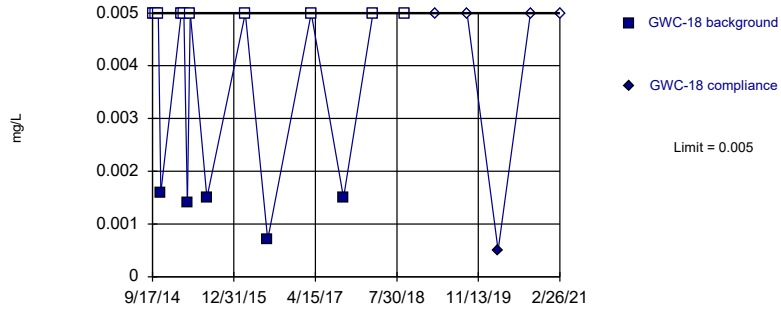


Background Data Summary: Mean=0.01443, Std. Dev.=0.004761, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8333, critical = 0.792. Kappa = 3.12 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

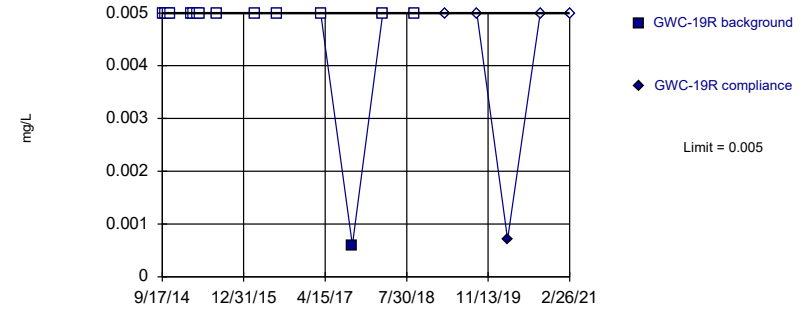


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

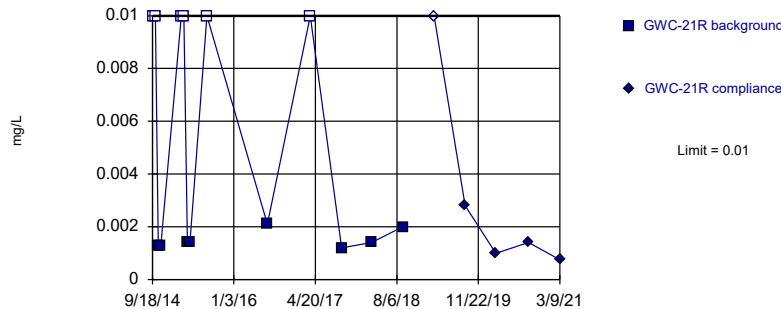


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

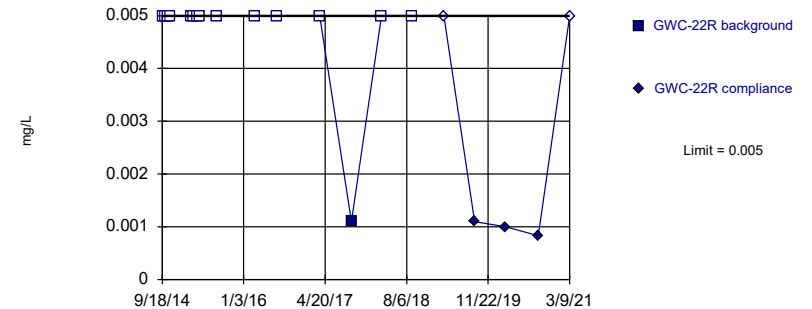


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

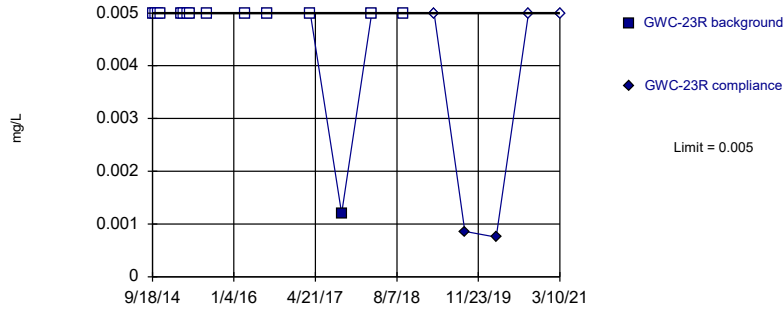


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

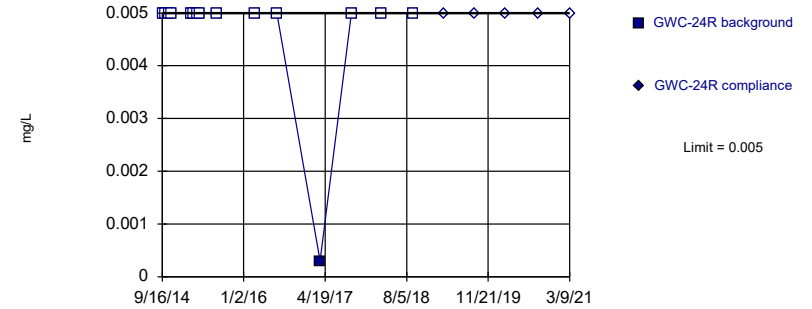


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

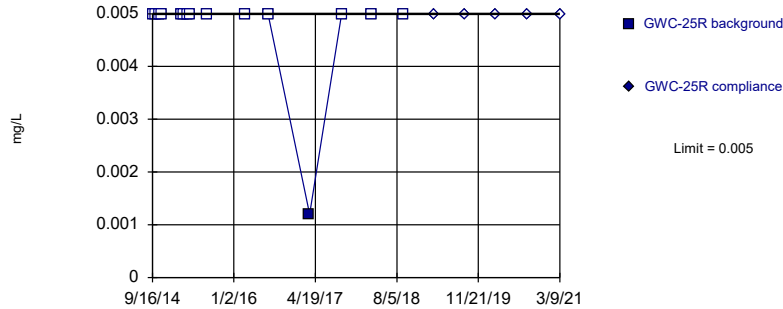


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

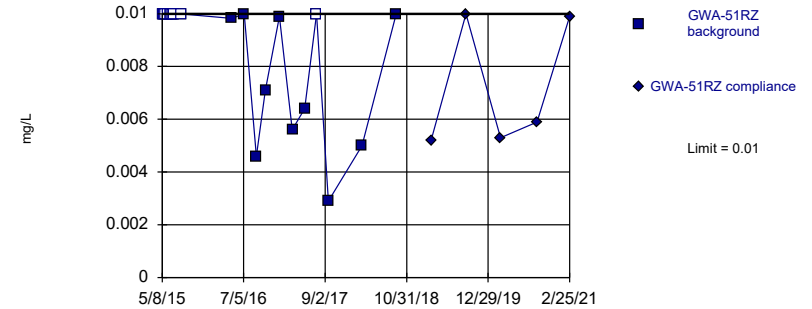


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Nickel Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

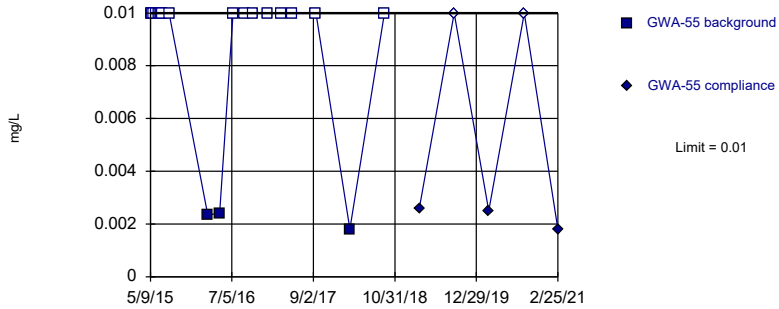


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

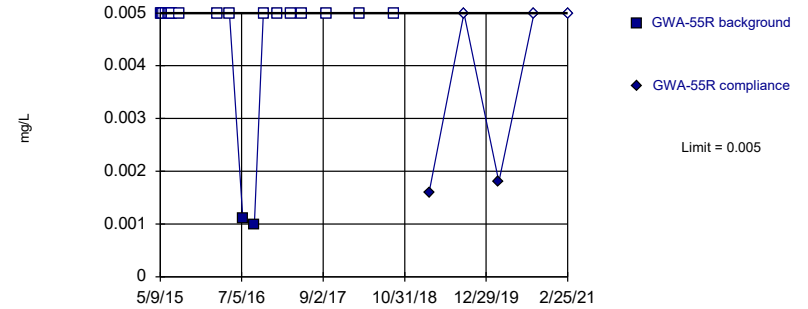


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

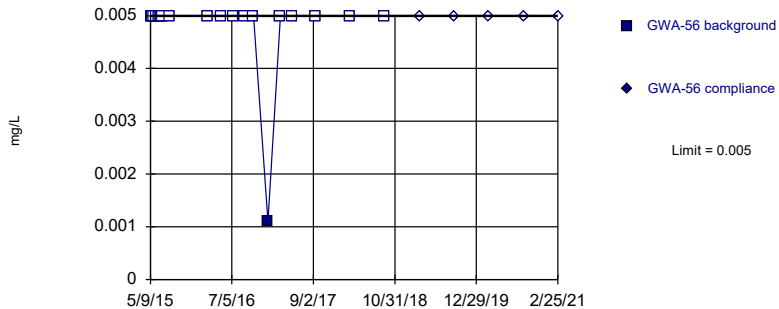


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

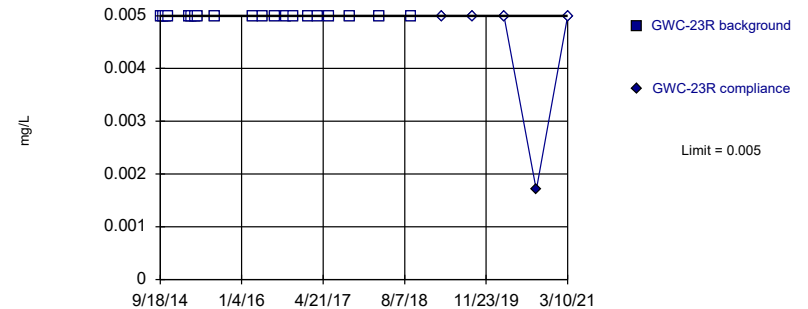


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

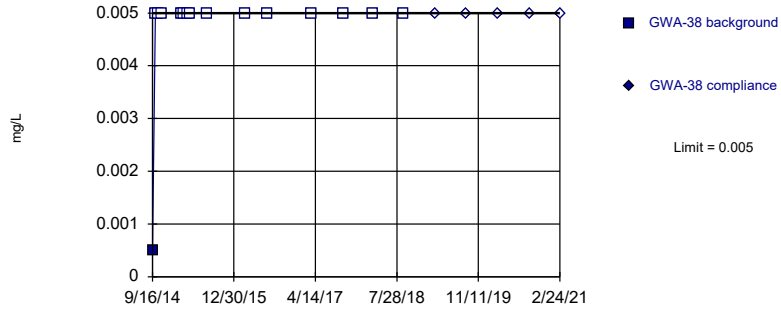


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

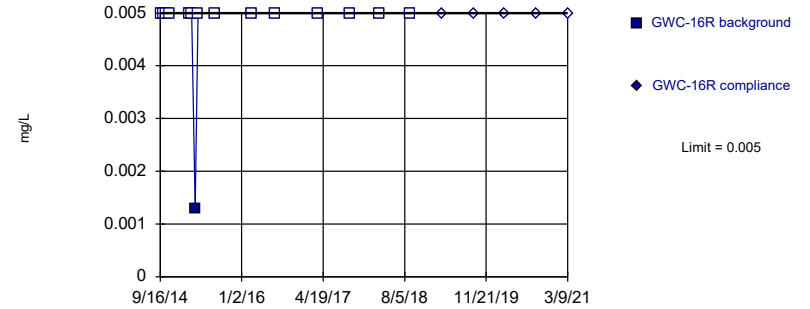


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

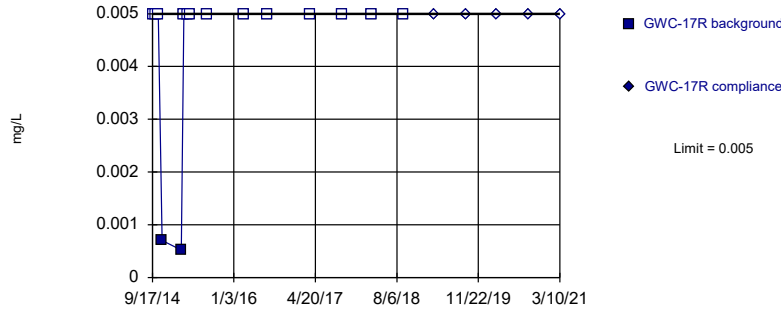


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

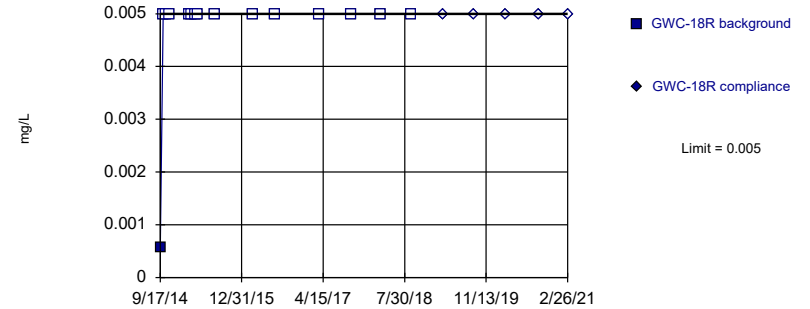


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

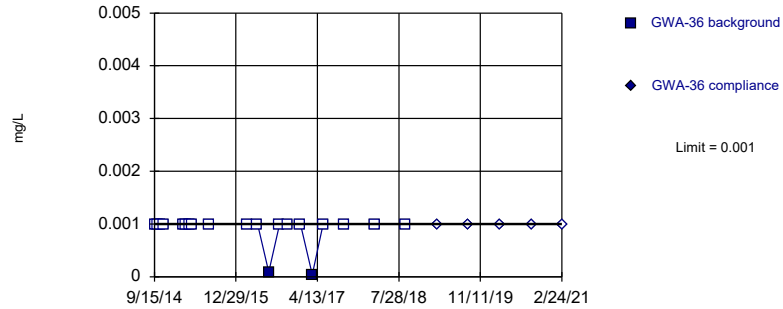


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Silver Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

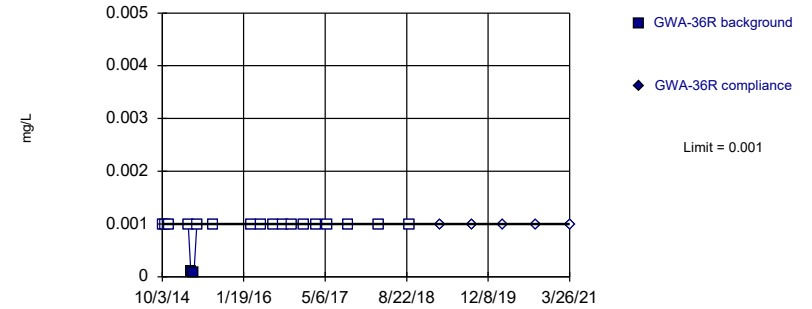


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

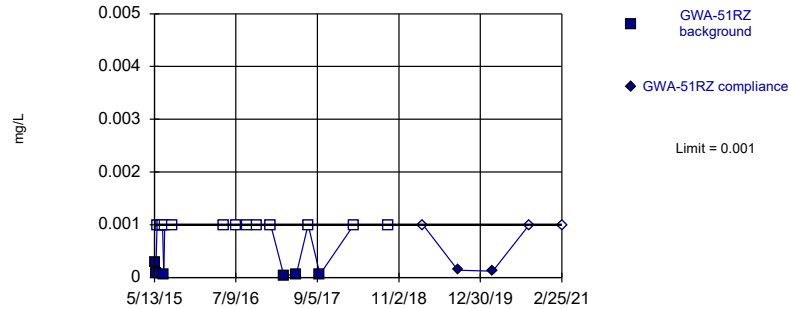


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

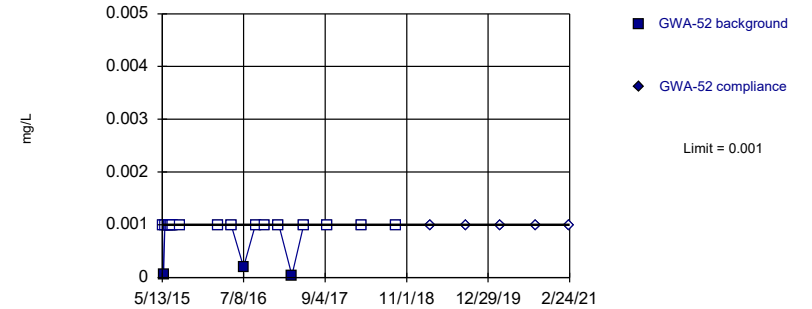


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 70% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

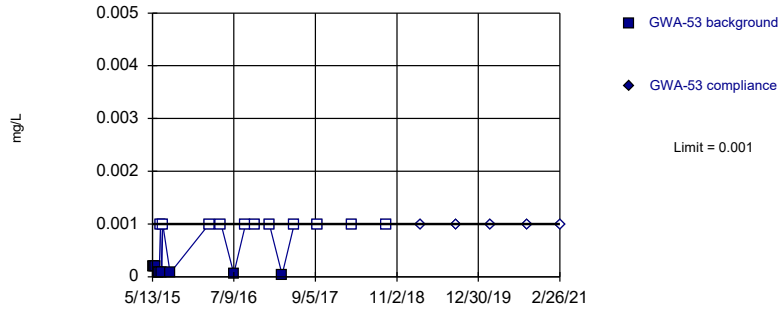


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

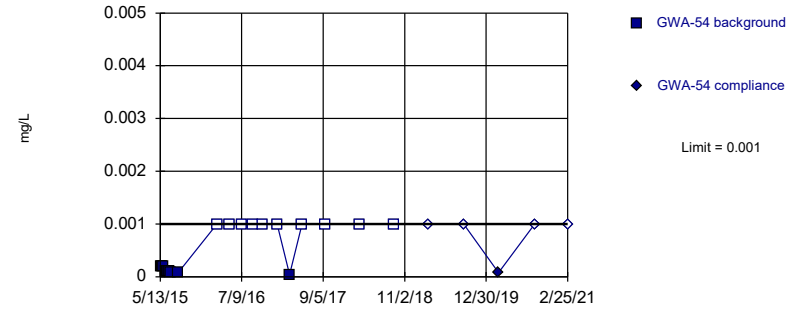


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

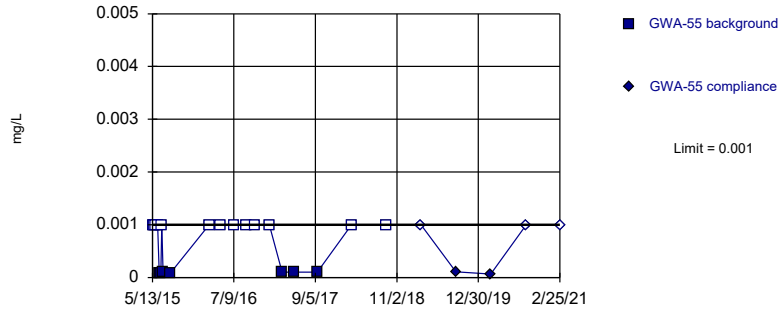


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

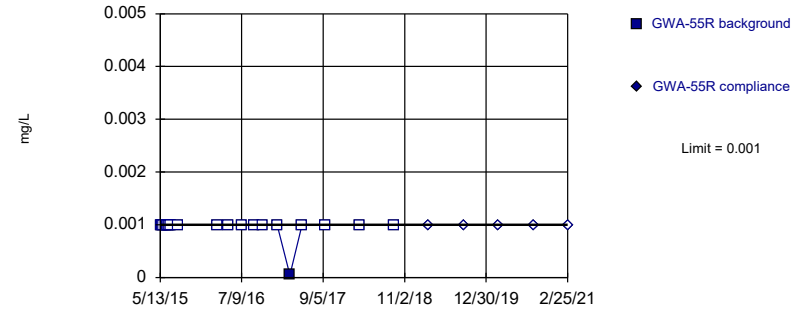


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

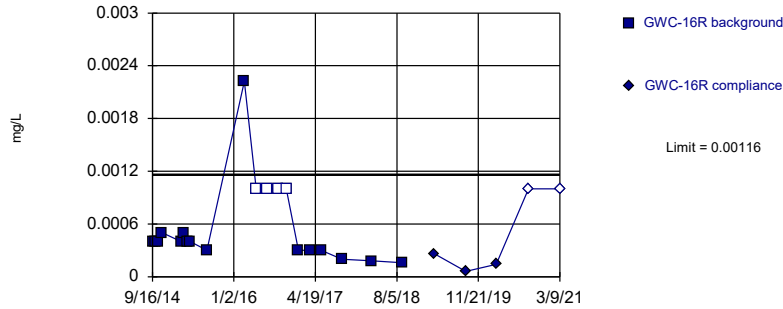


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

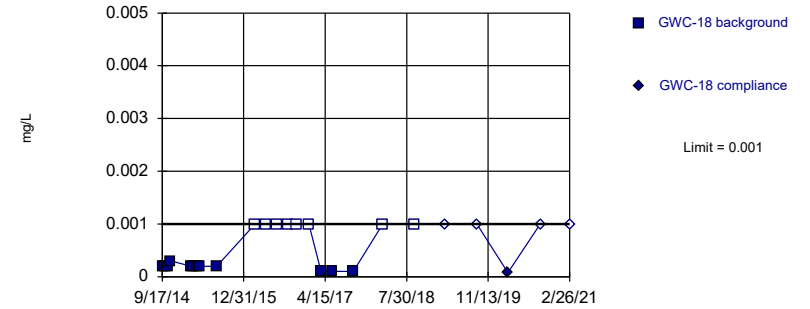


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.321, Std. Dev.=0.6089, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9187, critical = 0.868. Kappa = 2.565 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

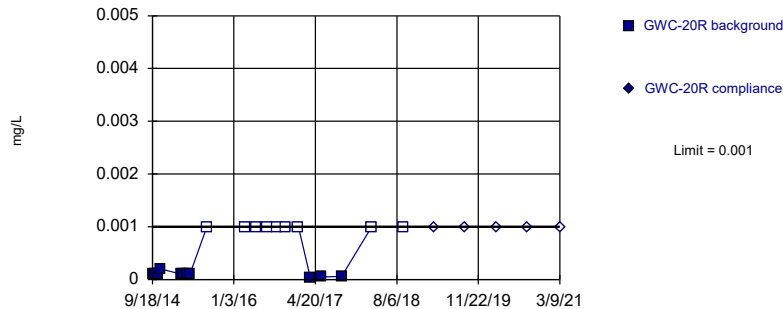


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

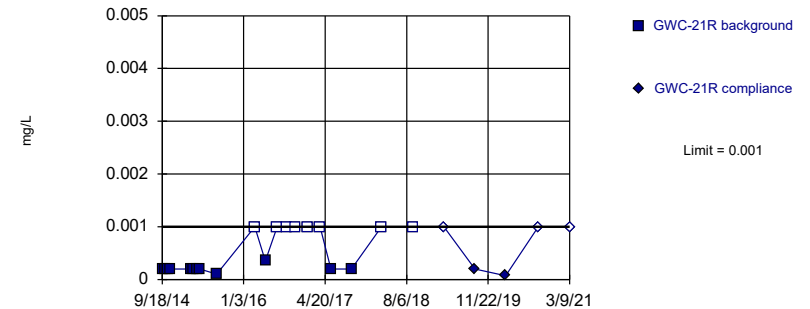


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 45% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

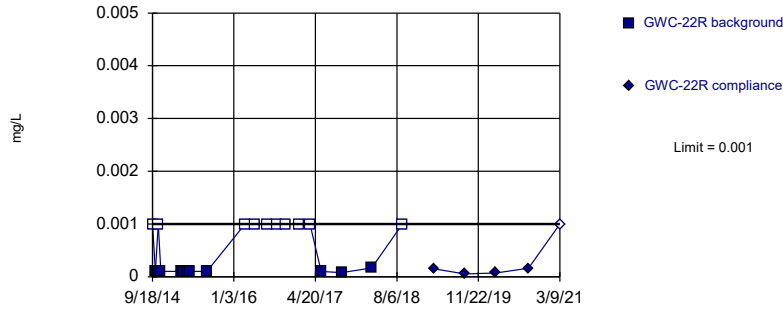


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

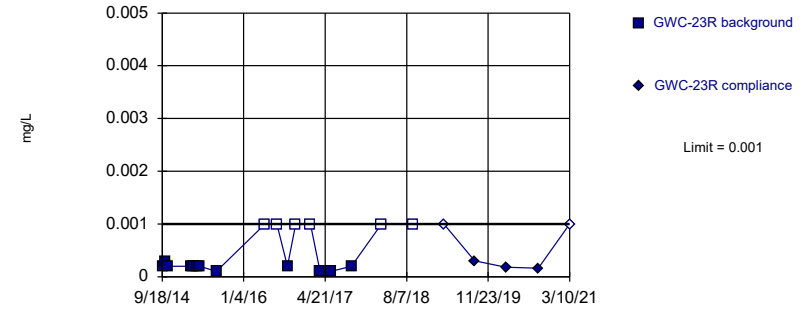


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 50% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

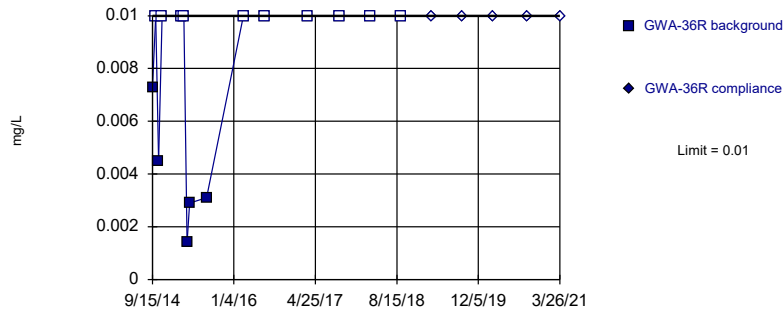


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Thallium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

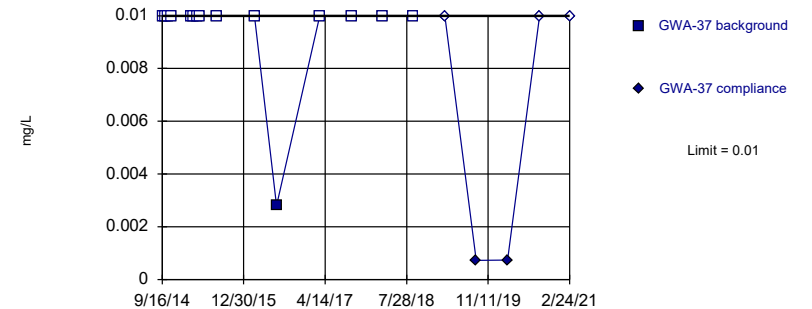


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

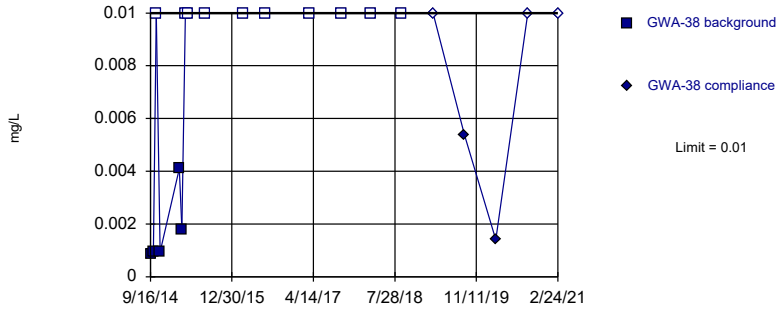


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

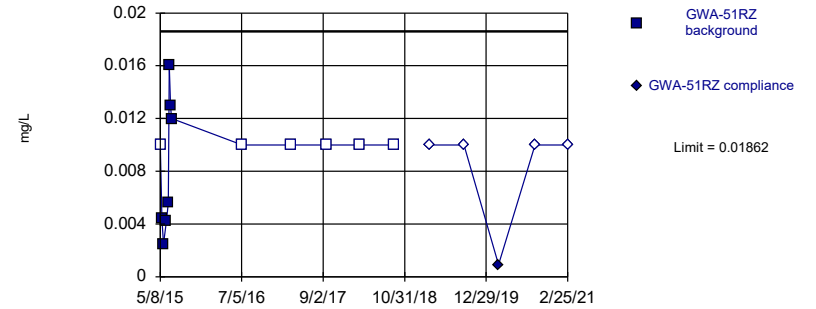


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

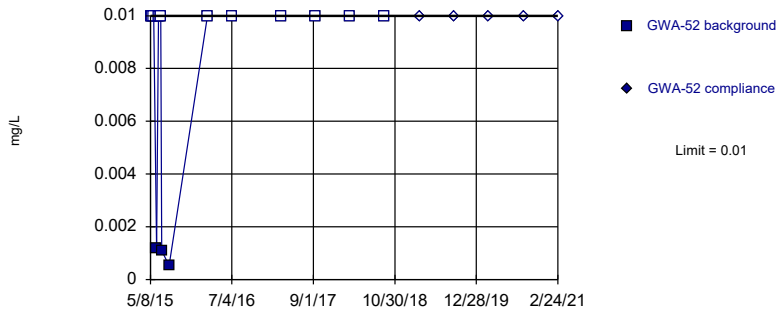


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006365, Std. Dev.=0.004195, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.814. Kappa = 2.92 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Vanadium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

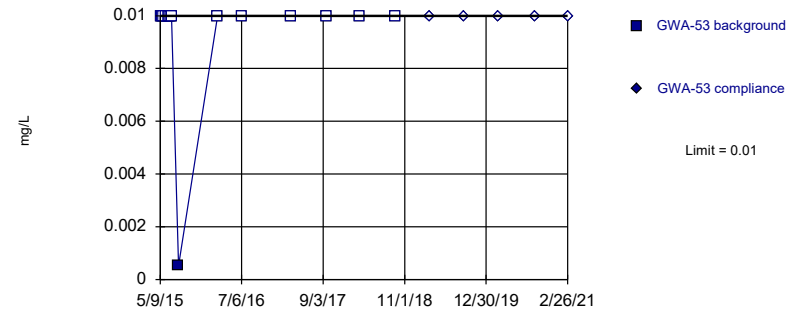


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:39 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

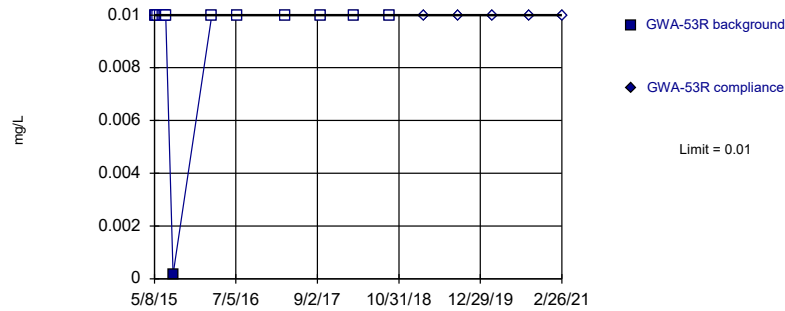


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

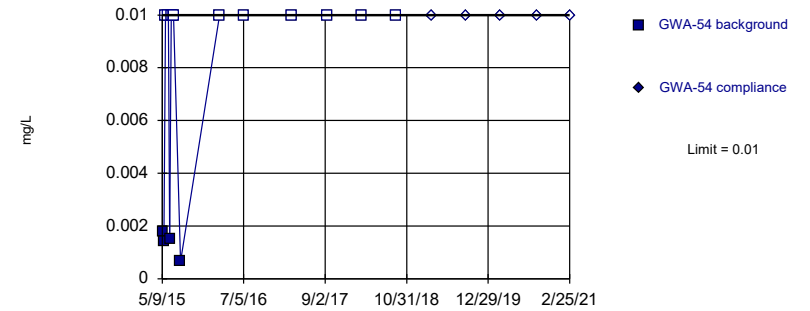


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

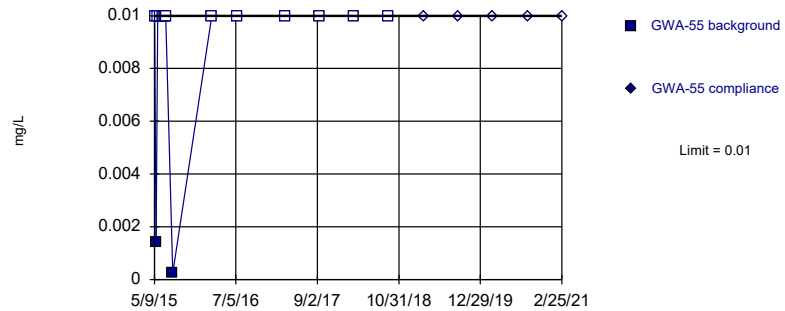


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

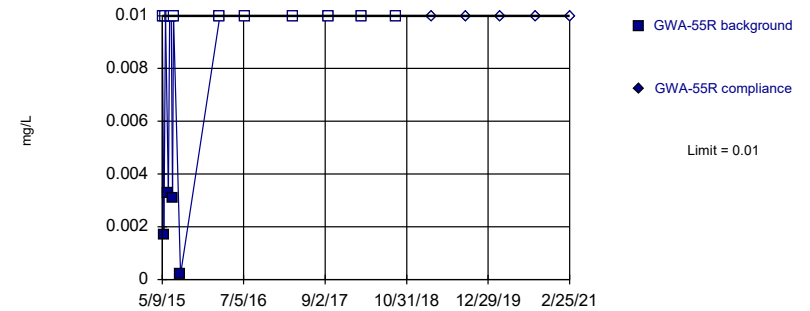


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

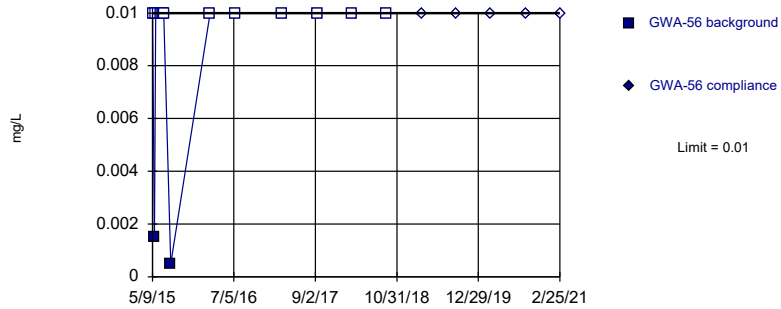


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

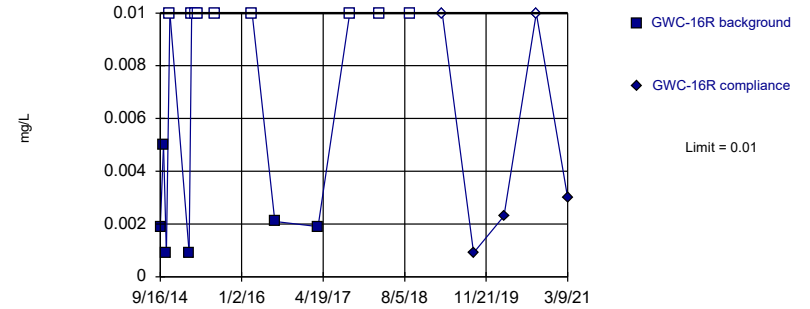


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

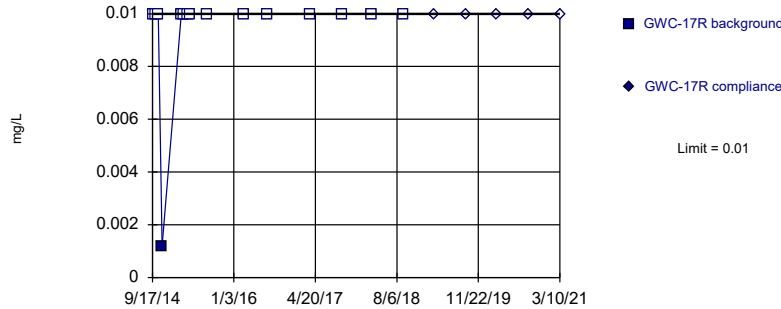


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

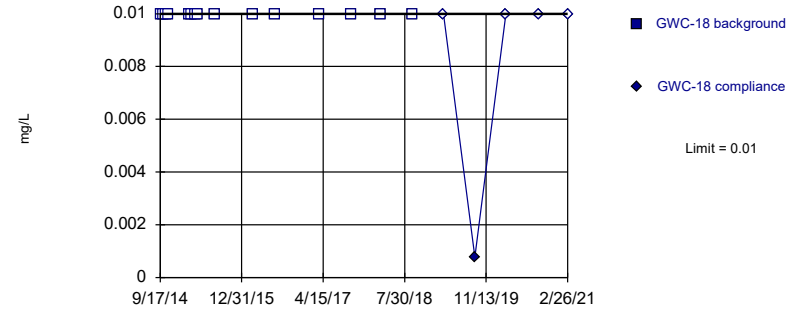


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

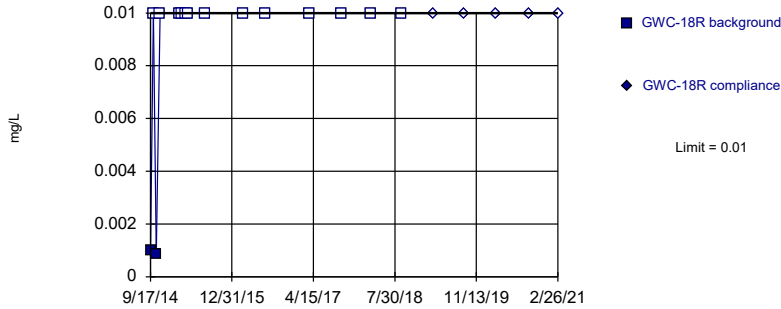


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

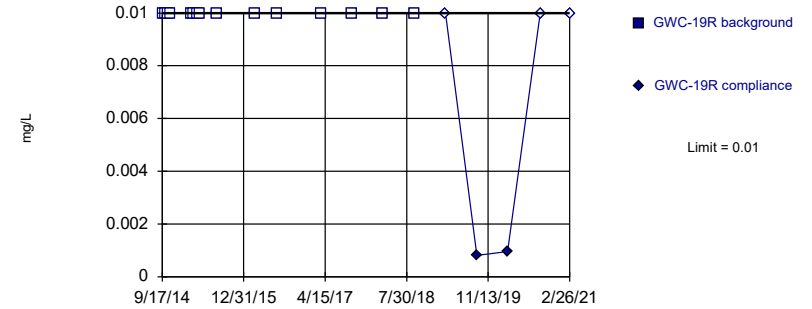


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

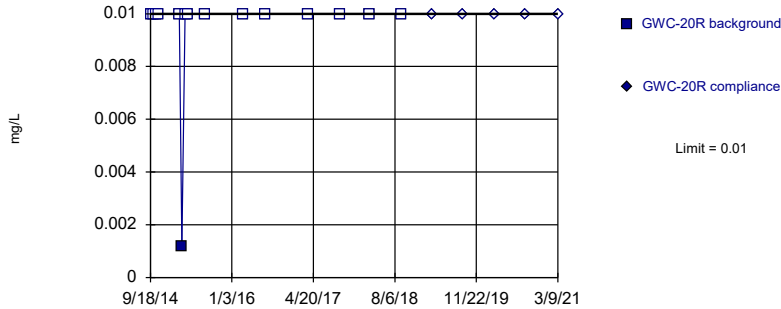


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

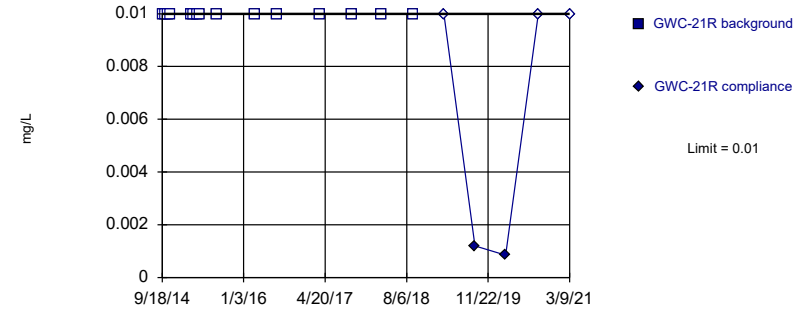


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Non-parametric

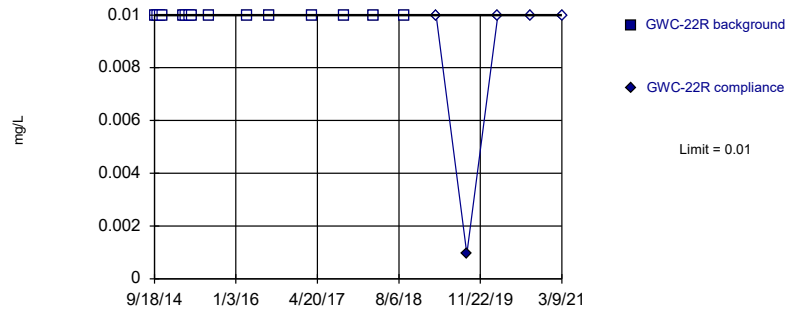


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

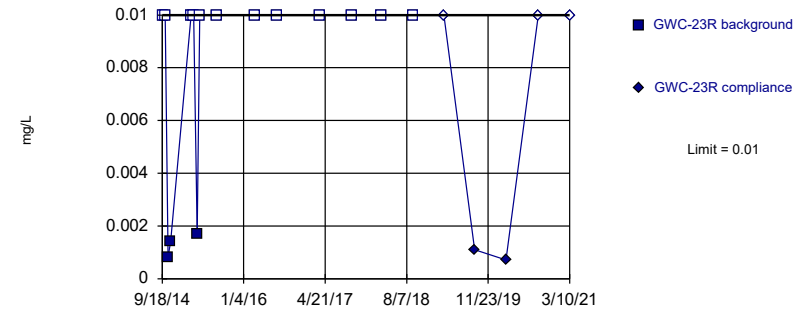


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

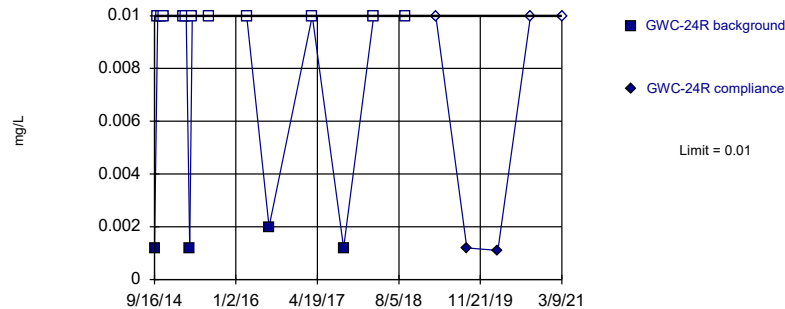


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

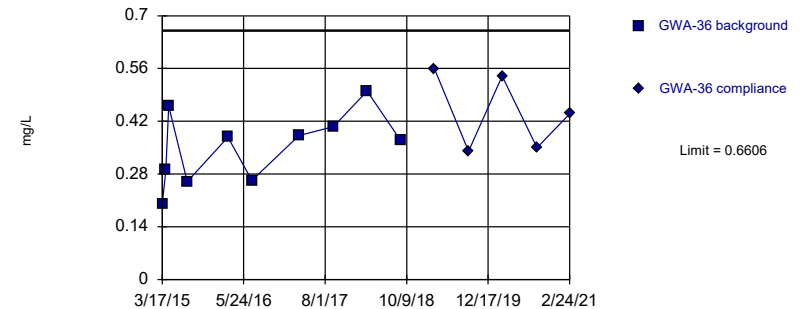


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

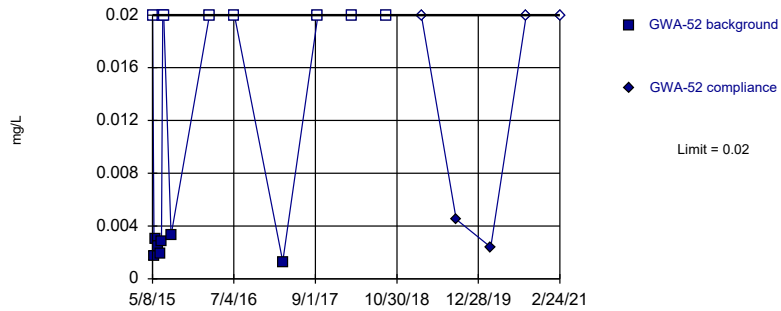


Background Data Summary: Mean=0.3509, Std. Dev.=0.09528, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9608, critical = 0.781. Kappa = 3.25 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

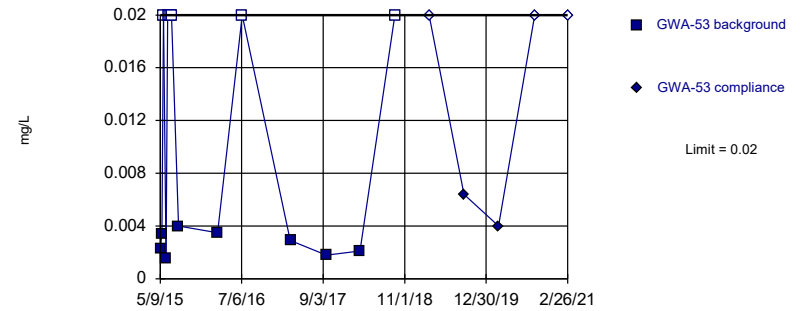


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

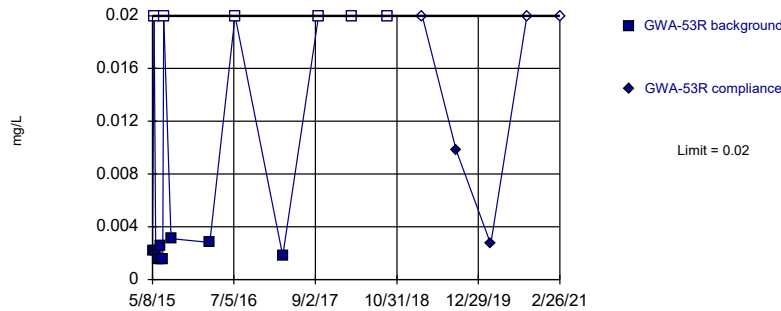


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

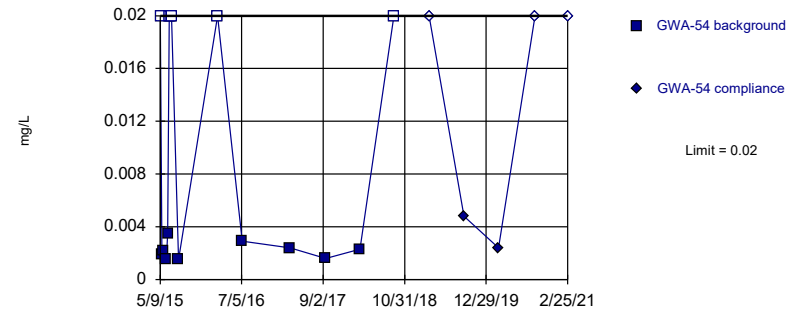


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

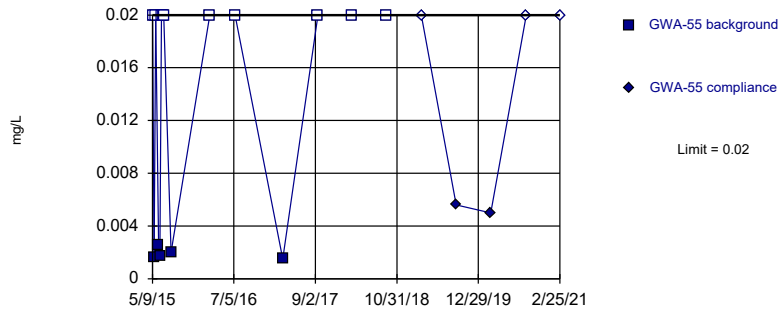


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

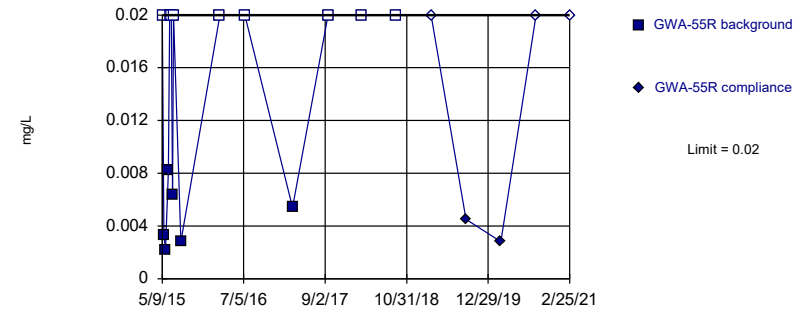


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

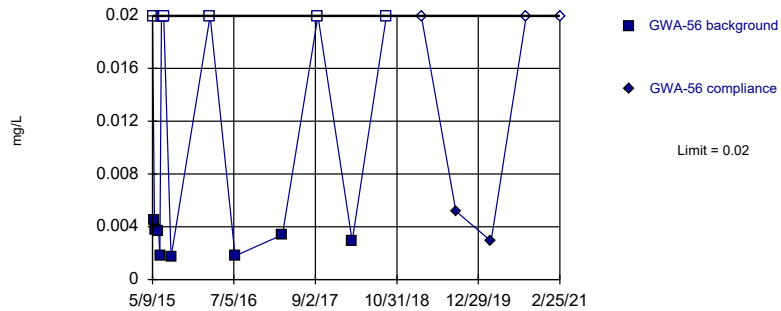


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

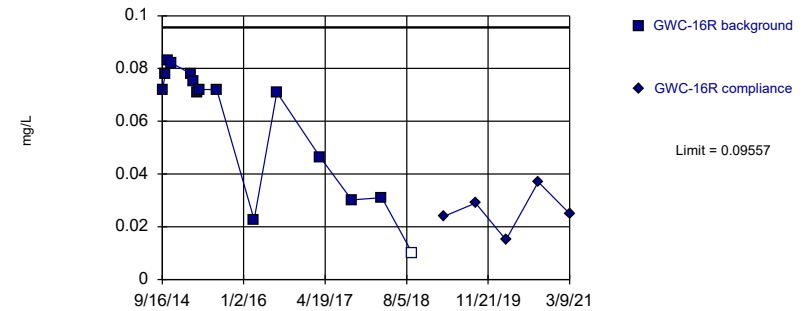


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

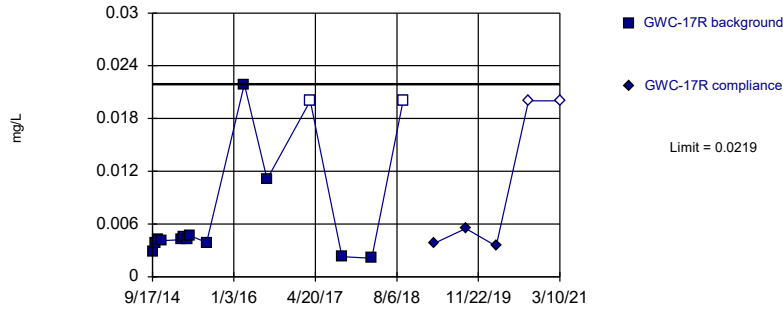


Background Data Summary (based on cube transformation): Mean=0.0002999, Std. Dev.=0.0002062, n=15, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8545, critical = 0.835. Kappa = 2.779 (c=16, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002993.

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

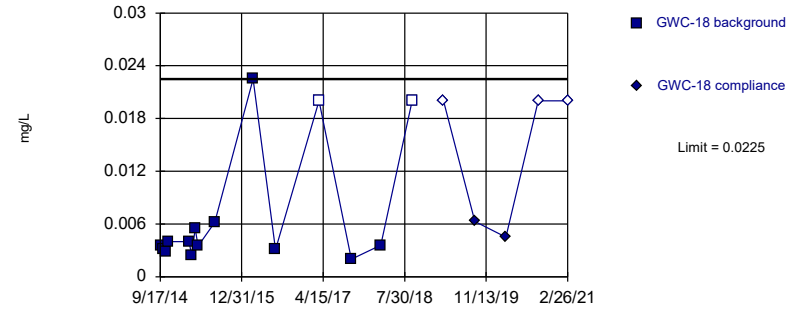


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 13.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

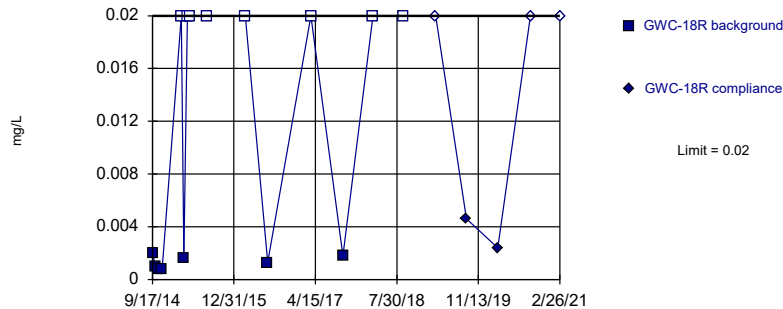


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 13.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

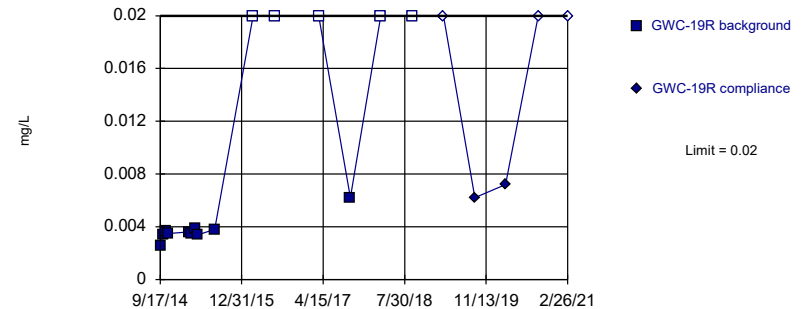


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 53.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

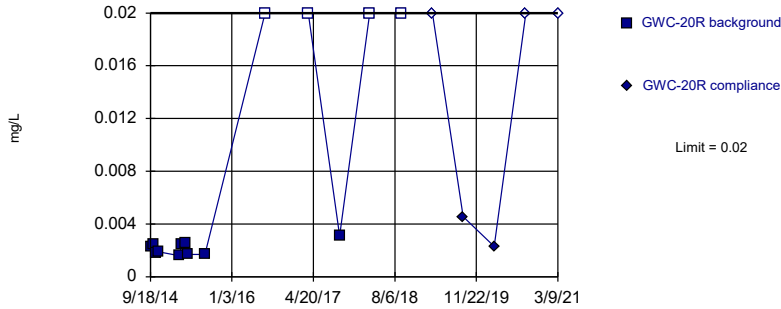


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

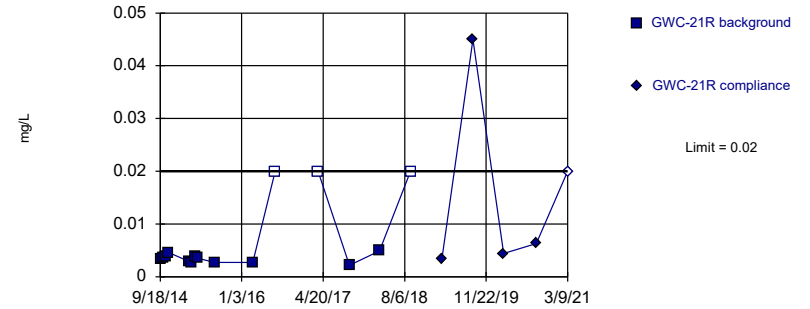


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.01715. Individual comparison alpha = 0.008612 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

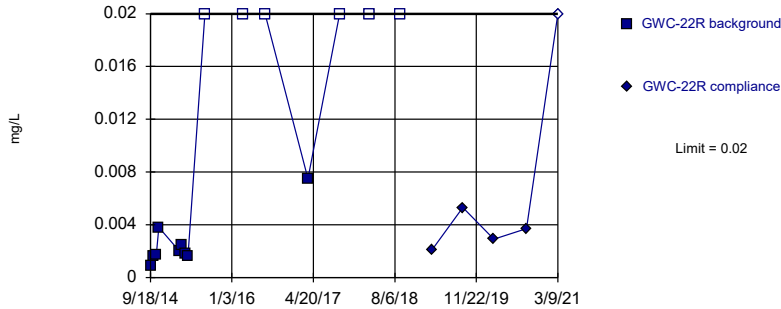


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 20% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

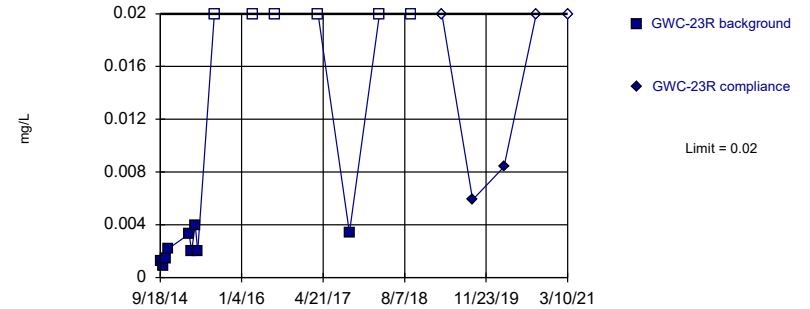


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

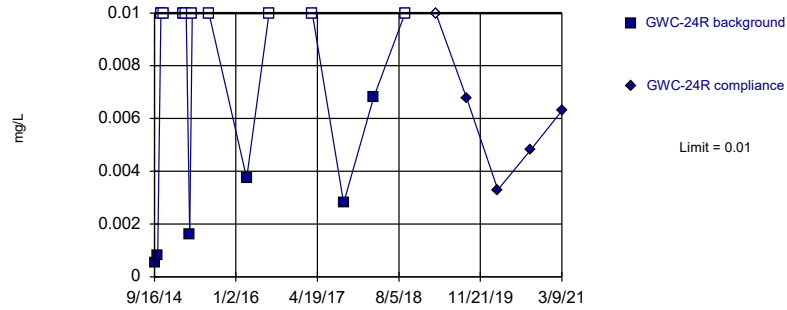


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 15 background values. 40% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

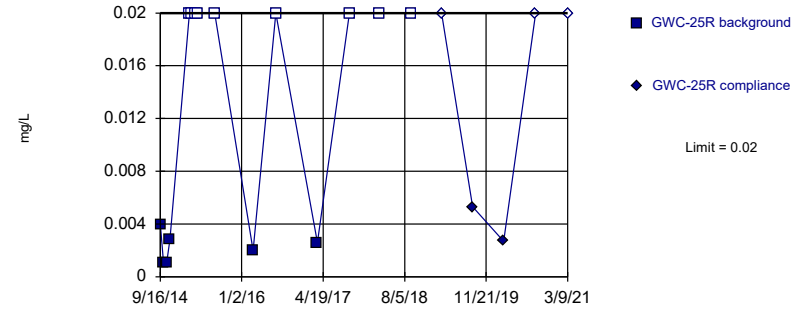


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Zinc Analysis Run 5/11/2021 9:40 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&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 5/11/2021 9:40 AM View: Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.00094 (J)
2/24/2021		0.00068 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36R	GWA-36R
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	
7/6/2016	<0.003	
9/7/2016	<0.003	
10/25/2016	<0.003	
1/5/2017	<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	
3/7/2019		<0.003
9/4/2019		<0.003
3/2/2020		<0.003
9/14/2020		<0.003
3/26/2021		0.00092 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0012 (J)
2/24/2021		0.0012 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.00035 (J)
2/25/2021		0.00061 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0017 (J)
2/26/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.00078 (J)
2/26/2021		0.0006 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.003
2/25/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.00065 (J)
2/25/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.003
2/25/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.003
2/25/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.015
3/9/2021		0.018

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.003
3/10/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.003
2/26/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.003
2/26/2021		0.00059 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.003	
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		0.001755 (D)
3/5/2020		<0.003
9/4/2020		<0.003
3/9/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0041
3/9/2021		0.0024 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.003
3/10/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.00094 (J)
3/9/2021		0.00035 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.0013 (J)
3/9/2021		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		<0.005
3/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
8/12/2015	0.0162 (o)	
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)
9/9/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.0011 (J)
3/9/2021		0.00094 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0023 (J)
3/9/2021		0.0045 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0025 (J)
3/9/2021		0.0018 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.014
2/24/2021		0.016

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		0.03
3/26/2021		0.02

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0045 (J)
2/24/2021		0.0044 (J)

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.011
2/24/2021		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.017
2/25/2021		0.018

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.017
2/24/2021		0.025

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		0.012
2/26/2021		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		0.013
2/26/2021		0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		0.035
2/25/2021		0.034

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.022
2/25/2021		0.028

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.032
2/25/2021		0.034

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.033
2/25/2021		0.032

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.051
3/9/2021		0.058

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.018
3/10/2021		0.019

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.016
2/26/2021		0.017

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.015	
10/4/2014	<0.0013	
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
9/9/2020		0.014
2/26/2021		0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.014
2/26/2021		0.016

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.033
3/9/2021		0.027

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		0.015
3/9/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
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
9/8/2020		0.054
3/9/2021		0.045

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.036
3/10/2021		0.026

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.024
3/9/2021		0.021

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.016
3/9/2021		0.016

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0002 (J)
2/24/2021		0.00022 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/14/2020		0.00012 (J)
3/26/2021		0.00019 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-37	GWA-37
9/16/2014	<0.0005	
10/3/2014	<0.0005	
10/20/2014	<0.0005	
11/10/2014	<0.0005	
3/2/2015	<0.0005	
3/17/2015	<0.0005	
4/5/2015	<0.0005	
4/22/2015	8.3E-05 (J)	
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
9/3/2020		<0.0005
2/24/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-38	GWA-38
9/16/2014	<0.0005	
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	<0.0005	
4/22/2015	7.8E-05 (J)	
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
9/3/2020		<0.0005
2/24/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.0005	
5/17/2015	0.00022 (J)	
5/25/2015	<0.0005	
6/8/2015	<0.0005	
6/18/2015	<0.0005	
6/24/2015	<0.0005	
6/30/2015	<0.0005	
7/6/2015	<0.0005	
8/12/2015	<0.0005	
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
9/9/2020		<0.0005
2/25/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.003	
5/3/2016	<0.003	
7/8/2016	<0.003	
9/8/2016	<0.003	
10/26/2016	<0.003	
1/9/2017	<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	
3/8/2019		5.7E-05 (J)
9/5/2019		<0.003
3/4/2020		<0.003
9/8/2020		5.5E-05 (J)
2/26/2021		5.1E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53R	GWA-53R
5/8/2015	<0.0005	
5/17/2015	<0.0005	
5/25/2015	<0.0005	
6/8/2015	<0.0005	
6/18/2015	<0.0005	
6/24/2015	<0.0005	
6/30/2015	0.00014 (J)	
7/6/2015	<0.0005	
8/12/2015	<0.0005	
3/2/2016	<0.0005	
5/3/2016	<0.0005	
7/11/2016	<0.0005	
9/7/2016	<0.0005	
10/27/2016	<0.0005	
1/6/2017	<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	
3/12/2019		<0.0005
9/5/2019		<0.0005
3/4/2020		<0.0005
9/8/2020		<0.0005
2/26/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55	GWA-55
5/9/2015	<0.0005	
5/18/2015	<0.0005	
5/26/2015	<0.0005	
6/9/2015	<0.0005	
6/17/2015	<0.0005	
6/25/2015	<0.0005	
7/1/2015	<0.0005	
7/7/2015	0.00012 (J)	
8/12/2015	<0.0005	
3/2/2016	<0.0005	
5/3/2016	<0.0005	
7/11/2016	<0.0005	
9/9/2016	<0.0005	
10/26/2016	<0.0005	
1/9/2017	<0.0005	
3/16/2017	<0.0005	
5/18/2017	<0.0005	
9/15/2017	<0.0005	
3/12/2018	<0.0005	
9/7/2018	<0.0005	
3/8/2019		<0.0005
9/5/2019		<0.0005
3/3/2020		<0.0005
9/4/2020		<0.0005
2/25/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.0005	
5/18/2015	0.00011 (J)	
5/26/2015	<0.0005	
6/9/2015	0.00025 (J)	
6/17/2015	<0.0005	
6/25/2015	<0.0005	
7/1/2015	0.00024 (J)	
7/7/2015	<0.0005	
8/12/2015	<0.0005	
3/3/2016	<0.0005	
5/3/2016	<0.0005	
7/11/2016	<0.0005	
9/9/2016	<0.0005	
10/27/2016	<0.0005	
1/9/2017	<0.0005	
3/16/2017	<0.0005	
5/18/2017	<0.0005	
9/18/2017	<0.0005	
3/12/2018	<0.0005	
9/7/2018	<0.0005	
3/7/2019		<0.0005
9/5/2019		<0.0005
3/4/2020		<0.0005
9/4/2020		<0.0005
2/25/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56	GWA-56
5/9/2015	<0.0005	
5/19/2015	<0.0005	
5/26/2015	<0.0005	
6/9/2015	<0.0005	
6/17/2015	<0.0005	
6/25/2015	<0.0005	
7/1/2015	<0.0005	
7/7/2015	<0.0005	
8/12/2015	<0.0005	
3/3/2016	<0.0005	
5/9/2016	<0.0005	
7/11/2016	0.0001 (J)	
9/9/2016	<0.0005	
10/26/2016	<0.0005	
1/9/2017	<0.0005	
3/15/2017	<0.0005	
5/18/2017	<0.0005	
9/15/2017	<0.0005	
3/13/2018	<0.0005	
9/7/2018	<0.0005	
3/7/2019		<0.0005
9/4/2019		<0.0005
3/4/2020		<0.0005
9/4/2020		<0.0005
2/25/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18	GWC-18
9/17/2014	<0.0005	
10/4/2014	<0.0005	
10/21/2014	<0.0005	
11/5/2014	9E-05 (J)	
3/3/2015	<0.0005	
3/18/2015	<0.0005	
4/7/2015	<0.0005	
4/23/2015	7.8E-05 (J)	
7/29/2015	<0.0005	
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
9/9/2020		<0.0005
2/26/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.0002 (J)
2/26/2021		0.0002 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.0005	
10/4/2014	<0.0005	
10/21/2014	<0.0005	
11/5/2014	<0.0005	
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	0.0001 (J)	
3/14/2018	6.5E-05 (J)	
9/10/2018	<0.0005	
3/12/2019		<0.0005
9/9/2019		<0.0005
3/4/2020		0.00013 (J)
9/9/2020		<0.0005
2/26/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-20R	GWC-20R
9/18/2014	<0.0005	
10/5/2014	<0.0005	
10/22/2014	<0.0005	
11/5/2014	<0.0005	
3/4/2015	<0.0005	
3/19/2015	<0.0005	
4/7/2015	<0.0005	
4/24/2015	8.3E-05 (J)	
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
9/4/2020		<0.0005
3/9/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.00089 (J)
2/24/2021		0.0012

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/14/2020		0.00016 (J)
3/26/2021		0.00015 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-37	GWA-37
9/16/2014	<0.0005	
10/3/2014	<0.0005	
10/20/2014	<0.0005	
11/10/2014	0.00026 (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	0.000103 (J)	
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		9.3E-05 (J)
9/4/2019		<0.0005
3/2/2020		<0.0005
9/3/2020		<0.0005
2/24/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-38	GWA-38
9/16/2014	<0.0005	
10/3/2014	<0.0005	
10/20/2014	<0.0005	
11/10/2014	<0.0005	
3/2/2015	0.00035 (J)	
3/17/2015	<0.0005	
4/6/2015	<0.0005	
4/22/2015	<0.0005	
7/28/2015	<0.0005	
3/2/2016	0.000109 (J)	
5/3/2016	<0.0005	
7/7/2016	<0.0005	
9/8/2016	0.0001 (J)	
10/25/2016	<0.0005	
2/9/2017	0.0001 (J)	
3/23/2017	0.0001 (J)	
5/17/2017	0.0001 (J)	
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
9/3/2020		<0.0005
2/24/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.0005	
5/17/2015	0.00029 (J)	
5/25/2015	<0.0005	
6/8/2015	<0.0005	
6/18/2015	<0.0005	
6/24/2015	<0.0005	
6/30/2015	<0.0005	
7/6/2015	<0.0005	
8/12/2015	<0.0005	
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	0.00055 (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
9/9/2020		<0.0005
2/25/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18	GWC-18
9/17/2014	<0.0005	
10/4/2014	<0.0005	
10/21/2014	<0.0005	
11/5/2014	<0.0005	
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	
9/13/2016	<0.0005	
10/31/2016	8E-05 (J)	
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
9/9/2020		<0.0005
2/26/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.0005	
10/5/2014	<0.0005	
10/22/2014	<0.0005	
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	0.00021 (J)	
3/11/2019		<0.0005
9/6/2019		<0.0005
3/3/2020		<0.0005
9/8/2020		<0.0005
3/9/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.0005	
10/5/2014	<0.0005	
10/22/2014	<0.0005	
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	
3/7/2016	<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	8E-05 (J)	
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
9/8/2020		<0.0005
3/9/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.0005	
10/4/2014	<0.0005	
10/23/2014	<0.0005	
11/10/2014	<0.0005	
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	0.0001 (J)	
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
9/4/2020		<0.0005
3/9/2021		<0.0005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0011 (J)	
7/28/2015	<0.005	
3/1/2016	<0.005	
5/2/2016	0.00385 (J)	
7/7/2016	0.0004 (J)	
9/7/2016	<0.005	
10/25/2016	<0.005	
1/5/2017	<0.005	
3/15/2017	0.0007 (J)	
5/17/2017	0.0004 (J)	
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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/14/2020		<0.01
3/26/2021		0.0006 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
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	0.0006 (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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0013 (J)
2/24/2021		0.0018 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005 (D)	
7/7/2016	0.0005 (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		<0.005
9/9/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0011 (J)
2/24/2021		0.00097 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.01
2/26/2021		0.0008 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.01
2/26/2021		0.00071 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0014 (J)
2/25/2021		0.0017 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		0.0012 (J)
2/25/2021		0.00078 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		<0.01
2/25/2021		0.00083 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.0012 (J)
2/25/2021		0.001 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.00056 (J)
3/9/2021		0.0024 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	0.0014	
3/3/2015	0.001 (J)	
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	0.0035 (J)	
9/14/2016	<0.005	
11/1/2016	<0.005	
1/11/2017	<0.005	
3/21/2017	<0.005	
5/23/2017	0.0021 (J)	
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		0.00063 (J)
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18	GWC-18
9/17/2014	<0.01	
10/4/2014	0.0034	
10/21/2014	<0.01	
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)
9/9/2020		0.001 (J)
2/26/2021		0.0014 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
2/26/2021		0.00069 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
2/26/2021		0.00067 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		0.00078 (J)
3/9/2021		0.00094 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	0.001 (J)	
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	<0.005	
5/23/2017	0.0004 (J)	
9/19/2017	0.0006 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/11/2019		<0.005
9/6/2019		0.00078 (J)
3/3/2020		0.00058 (J)
9/8/2020		0.0013 (J)
3/9/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
3/20/2017	0.0004 (J)	
5/23/2017	0.0005 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/11/2019		<0.005
9/5/2019		<0.005
3/3/2020		0.00057 (J)
9/8/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
3/10/2021		0.00073 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
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 (D)
3/3/2020		0.00052 (J)
9/9/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		0.00073 (J)
3/9/2021		0.00079 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		<0.005
3/26/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.00091 (J)
2/24/2021		0.0011 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		0.0012 (J)
2/25/2021		0.0039 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.00069 (J)
3/9/2021		0.00047 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.005
3/9/2021		0.0004 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.00087 (J)
3/9/2021		0.00066 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		0.0012 (J)
3/9/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00095 (J)	
7/28/2015	<0.005	
3/1/2016	<0.005	
7/7/2016	<0.005	
3/15/2017	<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		0.00023 (J)
3/2/2020		<0.005
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.0049 (J)	
10/3/2014	<0.005	
10/20/2014	0.0024 (J)	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	<0.005	
4/21/2015	0.0017 (J)	
7/28/2015	0.00097 (J)	
3/1/2016	<0.005	
7/6/2016	<0.005	
3/14/2017	0.0003 (J)	
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		0.00043 (J)
9/14/2020		<0.005
3/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0067 (J)
2/24/2021		0.0083

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-38	GWA-38
9/16/2014	<0.005	
10/3/2014	0.00089 (J)	
10/20/2014	0.00087 (J)	
11/10/2014	<0.005	
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	<0.005	
3/2/2016	<0.005	
7/7/2016	<0.005	
3/23/2017	<0.005	
9/19/2017	0.0004 (J)	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005 (D)
3/2/2020		0.00019 (J)
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.005	
5/17/2015	0.0015 (J)	
5/25/2015	<0.005	
6/8/2015	<0.005	
6/18/2015	<0.005	
6/24/2015	0.0012 (J)	
6/30/2015	0.00096 (J)	
7/6/2015	0.00091 (J)	
8/12/2015	<0.005	
7/7/2016	0.0066 (JD)	
3/15/2017	<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		0.00041 (J)
9/9/2020		0.0019 (J)
2/25/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00082 (J)	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
2/29/2016	<0.005	
7/8/2016	<0.005	
3/15/2017	<0.005	
9/15/2017	<0.005	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		0.00024 (J)
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/8/2016	<0.005	
3/16/2017	<0.005	
9/19/2017	0.0003 (J)	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		<0.005
3/4/2020		0.00053 (J)
9/8/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.00093 (J)	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
7/11/2016	<0.005	
3/16/2017	<0.005	
9/19/2017	0.0003 (J)	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/5/2019		<0.005
3/4/2020		<0.005
9/8/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/8/2016	<0.005	
3/15/2017	<0.005	
9/15/2017	0.0007 (J)	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/5/2019		<0.005
3/3/2020		0.00025 (J)
9/8/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0011 (J)	
8/13/2015	<0.005	
3/2/2016	<0.005	
7/11/2016	<0.005	
3/16/2017	<0.005	
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		<0.005
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.005	
5/18/2015	0.00093 (J)	
5/26/2015	<0.005	
6/9/2015	0.0014 (J)	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	0.0014 (J)	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
7/11/2016	<0.005	
3/16/2017	<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
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/11/2016	<0.005	
3/15/2017	<0.005	
9/15/2017	0.002 (J)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/4/2019		0.00047 (J)
3/4/2020		0.0003 (J)
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.025
3/9/2021		0.0025 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.005	
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	<0.005	
4/6/2015	0.00083 (J)	
4/23/2015	0.0012 (J)	
7/29/2015	<0.005	
3/4/2016	<0.005	
7/14/2016	0.0124 (J)	
3/21/2017	0.0005 (J)	
9/22/2017	0.0007 (J)	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/10/2019		<0.005
3/5/2020		0.00023 (J)
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/13/2016	<0.005	
3/23/2017	<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		0.00023 (J)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18R	GWC-18R
9/17/2014	<0.005	
10/4/2014	0.00086 (J)	
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	
7/13/2016	<0.005	
3/20/2017	<0.005	
9/21/2017	0.0003 (J)	
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
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/14/2016	<0.005	
3/21/2017	0.0006 (J)	
9/20/2017	0.0003 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/12/2019		<0.005
9/9/2019		<0.005
3/4/2020		0.00036 (J)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/14/2016	<0.005	
3/22/2017	<0.005	
9/19/2017	0.0008 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/12/2019		<0.005
9/6/2019		<0.005 (D)
3/5/2020		<0.005
9/4/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.005	
10/5/2014	0.0016 (J)	
10/22/2014	0.0018 (J)	
11/5/2014	0.0015 (J)	
3/4/2015	<0.005	
3/19/2015	<0.005	
4/8/2015	<0.005	
4/24/2015	0.0016 (J)	
7/30/2015	<0.005	
3/8/2016	<0.005	
7/15/2016	0.0009 (J)	
3/21/2017	0.0009 (J)	
9/19/2017	0.0006 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/11/2019		<0.005
9/6/2019		0.01 (J)
3/3/2020		0.00049 (J)
9/8/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/14/2016	<0.005	
3/20/2017	0.0012 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/11/2019		<0.005
9/5/2019		<0.005
3/3/2020		0.00022 (J)
9/8/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.005	
10/5/2014	<0.005	
10/22/2014	<0.005	
11/5/2014	0.001 (J)	
3/4/2015	0.0014 (J)	
3/20/2015	<0.005	
4/8/2015	0.0014 (J)	
4/23/2015	<0.005	
7/30/2015	<0.005	
3/9/2016	<0.005	
7/15/2016	<0.005	
3/22/2017	0.0005 (J)	
9/21/2017	0.0005 (J)	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/6/2019		0.00037 (J)
3/5/2020		0.0003 (J)
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0011 (J)	
7/30/2015	<0.005	
3/4/2016	<0.005	
7/12/2016	<0.005	
3/20/2017	0.0003 (J)	
9/19/2017	<0.005	
3/13/2018	<0.005	
9/11/2018	<0.005	
3/8/2019		<0.005
9/5/2019		0.001 (JD)
3/3/2020		0.00097 (J)
9/9/2020		0.0017 (J)
3/9/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/18/2016	<0.005	
3/16/2017	<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		0.00027 (J)
9/4/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.00012 (J)
2/24/2021		6.2E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/14/2020		0.00065 (J)
3/26/2021		0.00095 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-37	GWA-37
9/16/2014	<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	
4/22/2015	<0.001	
7/28/2015	<0.001	
3/1/2016	<0.001	
5/3/2016	<0.001	
7/8/2016	0.0001 (J)	
9/7/2016	0.0001 (J)	
10/25/2016	<0.001	
1/6/2017	<0.001	
3/14/2017	0.0001 (J)	
5/16/2017	<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
9/3/2020		<0.001
2/24/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-38	GWA-38
9/16/2014	<0.001	
10/3/2014	<0.001	
10/20/2014	<0.001	
11/10/2014	<0.001	
3/2/2015	0.0047 (J)	
3/17/2015	<0.001	
4/6/2015	<0.001	
4/22/2015	<0.001	
7/28/2015	<0.001	
3/2/2016	<0.001	
5/3/2016	<0.001	
7/7/2016	0.0001 (J)	
9/8/2016	0.0001 (J)	
10/25/2016	0.0002 (J)	
2/9/2017	<0.001	
3/23/2017	0.0001 (J)	
5/17/2017	0.0001 (J)	
9/19/2017	<0.001	
3/13/2018	<0.001	
9/6/2018	<0.001	
3/7/2019		<0.001
9/4/2019		<0.001 (D)
3/2/2020		<0.001
9/3/2020		<0.001
2/24/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.001	
5/17/2015	<0.001	
5/25/2015	<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	
5/4/2016	<0.001 (D)	
7/7/2016	0.0002 (JD)	
9/8/2016	<0.001 (D)	
10/26/2016	<0.001 (D)	
1/6/2017	<0.001 (D)	
3/15/2017	<0.001 (D)	
5/18/2017	<0.001 (D)	
7/19/2017	<0.001 (D)	
9/19/2017	<0.001 (D)	
3/13/2018	<0.001	
9/7/2018	<0.001	
3/8/2019		<0.001
9/4/2019		<0.001
3/3/2020		5.1E-05 (J)
9/9/2020		8.9E-05 (J)
2/25/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.00012 (J)
2/26/2021		0.00012 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0006 (J)
2/26/2021		6.4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-54	GWA-54
5/9/2015	<0.001	
5/18/2015	<0.001	
5/25/2015	<0.001	
6/9/2015	<0.001	
6/17/2015	<0.001	
6/25/2015	<0.001	
7/1/2015	<0.001	
7/7/2015	<0.001	
8/12/2015	<0.001	
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	<0.001	
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		4.8E-05 (J)
9/8/2020		<0.001
2/25/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		0.0001 (J)
2/25/2021		9E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.005
2/25/2021		3.8E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		<0.005
2/25/2021		4.5E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.00017 (J)
3/9/2021		0.00011 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.001	
10/4/2014	<0.001	
10/21/2014	<0.001	
11/11/2014	<0.001	
3/3/2015	<0.001	
3/18/2015	<0.001	
4/6/2015	<0.001	
4/23/2015	<0.001	
7/29/2015	<0.001	
3/4/2016	<0.001	
5/10/2016	<0.001	
7/14/2016	0.0006 (J)	
9/14/2016	<0.001	
11/1/2016	<0.001	
1/11/2017	<0.001	
3/21/2017	<0.001	
5/23/2017	<0.001	
9/22/2017	<0.001	
3/14/2018	<0.001	
9/11/2018	<0.001	
3/12/2019		<0.001
9/10/2019		<0.001
3/5/2020		<0.001
9/9/2020		<0.001
3/10/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		6E-05 (J)
2/26/2021		9.4E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.00025 (J)
2/26/2021		0.00025 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-19R	GWC-19R
9/17/2014	<0.001	
10/4/2014	<0.001	
10/21/2014	<0.001	
11/5/2014	<0.001	
3/3/2015	<0.001	
3/19/2015	<0.001	
4/7/2015	<0.001	
4/24/2015	<0.001	
7/29/2015	<0.001	
3/7/2016	<0.001	
5/9/2016	<0.001	
7/14/2016	9E-05 (J)	
9/12/2016	<0.001	
10/31/2016	<0.001	
1/11/2017	<0.001	
3/21/2017	7E-05 (J)	
5/22/2017	<0.001	
9/20/2017	0.0004 (J)	
3/14/2018	<0.001	
9/10/2018	<0.001	
3/12/2019		<0.001
9/9/2019		<0.001
3/4/2020		0.0003 (J)
9/9/2020		<0.001
2/26/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.001	
10/5/2014	<0.001	
10/22/2014	<0.001	
11/5/2014	<0.001	
3/4/2015	<0.001	
3/19/2015	<0.001	
4/8/2015	<0.001	
4/24/2015	<0.001	
7/30/2015	<0.001	
3/8/2016	<0.001	
5/9/2016	<0.001	
7/15/2016	<0.001	
9/9/2016	<0.001	
10/27/2016	<0.001	
1/12/2017	<0.001	
3/21/2017	6E-05 (J)	
5/23/2017	<0.001	
9/19/2017	<0.001	
3/14/2018	<0.001	
9/10/2018	<0.001	
3/11/2019		<0.001
9/6/2019		0.0016 (J)
3/3/2020		<0.001
9/8/2020		6.7E-05 (J)
3/9/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-22R	GWC-22R
9/18/2014	<0.001	
10/5/2014	<0.001	
10/22/2014	<0.001	
11/5/2014	<0.001	
3/4/2015	<0.001	
3/19/2015	<0.001	
4/8/2015	<0.001	
4/24/2015	<0.001	
7/30/2015	<0.001	
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	0.0001 (J)	
3/20/2017	7E-05 (J)	
5/23/2017	<0.001	
9/19/2017	0.0001 (J)	
3/13/2018	<0.001	
9/7/2018	<0.001	
3/11/2019		<0.001
9/5/2019		<0.001
3/3/2020		5.9E-05 (J)
9/8/2020		<0.001
3/9/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-23R	GWC-23R
9/18/2014	<0.001	
10/5/2014	<0.001	
10/22/2014	<0.001	
11/5/2014	<0.001	
3/4/2015	<0.001	
3/20/2015	<0.001	
4/8/2015	<0.001	
4/23/2015	<0.001	
7/30/2015	<0.001	
3/9/2016	<0.001	
5/6/2016	<0.001	
7/15/2016	<0.001	
9/14/2016	<0.001	
11/1/2016	<0.001	
1/25/2017	<0.001	
3/22/2017	<0.001	
5/24/2017	0.0001 (J)	
9/21/2017	<0.001	
3/14/2018	<0.001	
9/11/2018	<0.001	
3/12/2019		<0.001
9/6/2019		6.8E-05 (J)
3/5/2020		5.2E-05 (J)
9/9/2020		<0.001
3/10/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-24R	GWC-24R
9/16/2014	<0.001	
10/4/2014	<0.001	
10/23/2014	<0.001	
11/10/2014	<0.001	
3/4/2015	<0.001	
3/20/2015	<0.001	
4/8/2015	<0.001	
4/23/2015	<0.001	
7/30/2015	<0.001	
3/4/2016	<0.001	
5/5/2016	<0.001	
7/12/2016	<0.001	
9/13/2016	<0.001	
10/27/2016	<0.001	
1/13/2017	<0.001	
3/20/2017	0.0001 (J)	
5/19/2017	<0.001	
9/19/2017	0.0002 (J)	
3/13/2018	<0.001	
9/11/2018	<0.001	
3/8/2019		<0.001
9/5/2019		9.05E-05 (JD)
3/3/2020		5.7E-05 (J)
9/9/2020		0.0001 (J)
3/9/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-25R
9/16/2014	<0.001	
10/4/2014	<0.001	
10/23/2014	<0.001	
11/10/2014	<0.001	
3/4/2015	<0.001	
3/20/2015	<0.001	
4/9/2015	<0.001	
4/23/2015	<0.001	
7/30/2015	<0.001	
3/8/2016	<0.001	
5/4/2016	<0.001	
7/18/2016	0.0001 (J)	
9/13/2016	<0.001	
10/27/2016	<0.001	
1/13/2017	<0.001	
3/16/2017	0.0003 (J)	
5/19/2017	0.0001 (J)	
9/19/2017	<0.001	
3/13/2018	<0.001	
9/11/2018	<0.001	
3/8/2019		0.00035 (J)
9/5/2019		6E-05 (J)
3/3/2020		5.9E-05 (J)
9/4/2020		0.00012 (J)
3/9/2021		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36	GWA-36
9/15/2014	<0.0002	
10/3/2014	<0.0002	
10/20/2014	<0.0002	
11/10/2014	5.8E-05 (J)	
3/2/2015	2.04E-05 (J)	
3/17/2015	<0.0002	
4/5/2015	<0.0002	
4/21/2015	<0.0002	
7/28/2015	2.13E-05 (J)	
3/1/2016	<0.0002	
5/2/2016	<0.0002	
7/7/2016	<0.0002	
9/7/2016	<0.0002	
10/25/2016	<0.0002	
1/5/2017	<0.0002	
3/15/2017	<0.0002	
5/17/2017	<0.0002	
9/15/2017	<0.0002	
3/12/2018	<0.0002	
9/6/2018	<0.0002	
3/6/2019		<0.0002
9/4/2019		<0.0002
3/2/2020		<0.0002
9/3/2020		<0.0002
2/24/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.000172 (J)	
10/3/2014	<0.0002	
10/20/2014	<0.0002	
11/10/2014	3.84E-05 (J)	
3/2/2015	<0.0002	
3/17/2015	<0.0002	
4/5/2015	<0.0002	
4/21/2015	2.39E-05 (J)	
7/28/2015	5.2E-05 (J)	
3/1/2016	<0.0002	
5/2/2016	<0.0002	
7/6/2016	<0.0002	
9/7/2016	<0.0002	
10/25/2016	<0.0002	
1/5/2017	<0.0002	
3/14/2017	<0.0002	
5/16/2017	<0.0002	
9/15/2017	<0.0002	
3/12/2018	<0.0002	
9/6/2018	<0.0002	
3/7/2019		<0.0002
9/4/2019		<0.0002
3/2/2020		<0.0002
9/14/2020		<0.0002
3/26/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.0005
2/24/2021		9.1E-05 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.0005
2/24/2021		0.00013 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.0002	
5/17/2015	0.000101 (J)	
5/25/2015	4.88E-05 (J)	
6/8/2015	<0.0002	
6/18/2015	4.1E-05 (J)	
6/24/2015	8.41E-05 (J)	
6/30/2015	<0.0002	
7/6/2015	<0.0002	
8/12/2015	4.91E-05 (J)	
5/4/2016	<0.0002 (D)	
7/7/2016	<0.0002 (D)	
9/8/2016	<0.0002 (D)	
10/26/2016	<0.0002 (D)	
1/6/2017	<0.0002 (D)	
3/15/2017	<0.0002 (D)	
5/18/2017	<0.0002 (D)	
7/19/2017	<0.0002 (D)	
9/19/2017	<0.0002 (D)	
3/13/2018	<0.0002	
9/7/2018	<0.0002	
3/8/2019		<0.0002
9/4/2019		<0.0002
3/3/2020		<0.0002
9/9/2020		<0.0002
2/25/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-16R	GWC-16R
9/16/2014	2.69E-05 (J)	
10/4/2014	<0.0002	
10/21/2014	3.18E-05 (J)	
11/11/2014	<0.0002	
3/3/2015	<0.0002	
3/18/2015	<0.0002	
4/6/2015	<0.0002	
4/23/2015	<0.0002	
7/29/2015	<0.0002	
3/3/2016	<0.0002 (D)	
5/10/2016	<0.0002	
7/13/2016	<0.0002	
9/15/2016	<0.0002	
11/2/2016	<0.0002	
1/11/2017	<0.0002	
3/20/2017	<0.0002	
5/23/2017	<0.0002	
9/21/2017	<0.0002	
3/14/2018	<0.0002	
9/7/2018	<0.0002	
3/11/2019		<0.0002
9/9/2019		<0.0002
3/4/2020		<0.0002
9/9/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-17R	GWC-17R
9/17/2014	2.97E-05 (J)	
10/4/2014	<0.0002	
10/21/2014	5.02E-05 (J)	
11/11/2014	3.66E-05 (J)	
3/3/2015	<0.0002	
3/18/2015	<0.0002	
4/6/2015	<0.0002	
4/23/2015	<0.0002	
7/29/2015	<0.0002	
3/4/2016	<0.0002	
5/10/2016	<0.0002	
7/14/2016	<0.0002	
9/14/2016	<0.0002	
11/1/2016	<0.0002	
1/11/2017	<0.0002	
3/21/2017	<0.0002	
5/23/2017	<0.0002	
9/22/2017	<0.0002	
3/14/2018	<0.0002	
9/11/2018	<0.0002	
3/12/2019		<0.0002
9/10/2019		<0.0002
3/5/2020		<0.0002
9/9/2020		<0.0002
3/10/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.0002	
3/18/2015	<0.0002	
4/7/2015	<0.0002	
4/23/2015	<0.0002	
7/29/2015	3.14E-05 (J)	
3/7/2016	<0.0002	
5/5/2016	<0.0002	
7/13/2016	<0.0002	
9/13/2016	<0.0002	
10/31/2016	<0.0002	
1/12/2017	<0.0002	
3/23/2017	<0.0002	
5/23/2017	<0.0002	
9/25/2017	<0.0002	
3/14/2018	<0.0002	
9/11/2018	<0.0002	
3/12/2019		<0.0002
9/9/2019		<0.0002
3/6/2020		<0.0002
9/9/2020		<0.0002
2/26/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18R	GWC-18R
9/17/2014	3.5E-05 (J)	
10/4/2014	<0.0002	
10/21/2014	5.35E-05 (J)	
11/11/2014	4.64E-05 (J)	
3/3/2015	<0.0002	
3/18/2015	<0.0002	
4/7/2015	<0.0002	
4/23/2015	<0.0002	
7/29/2015	<0.0002	
3/7/2016	<0.0002	
5/5/2016	<0.0002	
7/13/2016	<0.0002	
9/12/2016	<0.0002	
11/1/2016	<0.0002	
1/11/2017	<0.0002	
3/20/2017	<0.0002	
5/22/2017	<0.0002	
9/21/2017	<0.0002	
3/14/2018	<0.0002	
9/7/2018	<0.0002	
3/12/2019		<0.0002
9/6/2019		<0.0002
3/5/2020		<0.0002
9/9/2020		<0.0002
2/26/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-19R	GWC-19R
9/17/2014	4.15E-05 (J)	
10/4/2014	<0.0002	
10/21/2014	5.89E-05 (J)	
11/5/2014	7.28E-05 (J)	
3/3/2015	<0.0002	
3/19/2015	<0.0002	
4/7/2015	<0.0002	
4/24/2015	<0.0002	
7/29/2015	<0.0002	
3/7/2016	<0.0002	
5/9/2016	<0.0002	
7/14/2016	<0.0002	
9/12/2016	<0.0002	
10/31/2016	<0.0002	
1/11/2017	<0.0002	
3/21/2017	<0.0002	
5/22/2017	<0.0002	
9/20/2017	<0.0002	
3/14/2018	<0.0002	
9/10/2018	<0.0002	
3/12/2019		<0.0002
9/9/2019		<0.0002
3/4/2020		<0.0002
9/9/2020		<0.0002
2/26/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-20R	GWC-20R
9/18/2014	5.34E-05 (J)	
10/5/2014	<0.0002	
10/22/2014	4.88E-05 (J)	
11/5/2014	2.85E-05 (J)	
3/4/2015	<0.0002	
3/19/2015	<0.0002	
4/7/2015	<0.0002	
4/24/2015	<0.0002	
7/30/2015	<0.0002	
3/8/2016	<0.0002	
5/9/2016	<0.0002	
7/14/2016	<0.0002	
9/12/2016	<0.0002	
10/31/2016	<0.0002	
1/12/2017	<0.0002	
3/22/2017	<0.0002	
5/22/2017	<0.0002	
9/19/2017	<0.0002	
3/14/2018	<0.0002	
9/10/2018	<0.0002	
3/12/2019		<0.0002
9/6/2019		<0.0002 (D)
3/5/2020		<0.0002
9/4/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-21R
9/18/2014	<0.0002	
10/5/2014	<0.0002	
10/22/2014	2.57E-05 (J)	
11/5/2014	<0.0002	
3/4/2015	<0.0002	
3/19/2015	<0.0002	
4/8/2015	<0.0002	
4/24/2015	<0.0002	
7/30/2015	<0.0002	
3/8/2016	<0.0002	
5/9/2016	<0.0002	
7/15/2016	<0.0002	
9/9/2016	<0.0002	
10/27/2016	<0.0002	
1/12/2017	<0.0002	
3/21/2017	<0.0002	
5/23/2017	<0.0002	
9/19/2017	<0.0002	
3/14/2018	<0.0002	
9/10/2018	<0.0002	
3/11/2019		<0.0002
9/6/2019		<0.0002
3/3/2020		<0.0002
9/8/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-22R	GWC-22R
9/18/2014	2.54E-05 (J)	
10/5/2014	<0.0002	
10/22/2014	2.83E-05 (J)	
11/5/2014	0.0002	
3/4/2015	<0.0002	
3/19/2015	<0.0002	
4/8/2015	<0.0002	
4/24/2015	<0.0002	
7/30/2015	<0.0002	
3/7/2016	<0.0002	
5/5/2016	<0.0002	
7/14/2016	<0.0002	
9/12/2016	<0.0002	
10/27/2016	<0.0002	
1/13/2017	<0.0002	
3/20/2017	<0.0002	
5/23/2017	<0.0002	
9/19/2017	<0.0002	
3/13/2018	<0.0002	
9/7/2018	<0.0002	
3/11/2019		<0.0002
9/5/2019		<0.0002
3/3/2020		<0.0002
9/8/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-23R	GWC-23R
9/18/2014	2.82E-05 (J)	
10/5/2014	<0.0002	
10/22/2014	<0.0002	
11/5/2014	4.83E-05 (J)	
3/4/2015	<0.0002	
3/20/2015	<0.0002	
4/8/2015	<0.0002	
4/23/2015	<0.0002	
7/30/2015	<0.0002	
3/9/2016	<0.0002	
5/6/2016	<0.0002	
7/15/2016	<0.0002	
9/14/2016	<0.0002	
11/1/2016	<0.0002	
1/25/2017	<0.0002	
3/22/2017	<0.0002	
5/24/2017	<0.0002	
9/21/2017	<0.0002	
3/14/2018	<0.0002	
9/11/2018	<0.0002	
3/12/2019		<0.0002
9/6/2019		<0.0002
3/5/2020		<0.0002
9/9/2020		<0.0002
3/10/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-24R	GWC-24R
9/16/2014	2.81E-05 (J)	
10/4/2014	<0.0002	
10/23/2014	<0.0002	
11/10/2014	5.15E-05 (J)	
3/4/2015	<0.0002	
3/20/2015	<0.0002	
4/8/2015	<0.0002	
4/23/2015	<0.0002	
7/30/2015	<0.0002	
3/4/2016	<0.0002	
5/5/2016	<0.0002	
7/12/2016	<0.0002	
9/13/2016	<0.0002	
10/27/2016	<0.0002	
1/13/2017	<0.0002	
3/20/2017	<0.0002	
5/19/2017	<0.0002	
9/19/2017	<0.0002	
3/13/2018	<0.0002	
9/11/2018	<0.0002	
3/8/2019		<0.0002
9/5/2019		<0.0002 (D)
3/3/2020		<0.0002
9/9/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-25R	GWC-25R
9/16/2014	3.13E-05 (J)	
10/4/2014	<0.0002	
10/23/2014	4.6E-05 (J)	
11/10/2014	2.5E-05 (J)	
3/4/2015	<0.0002	
3/20/2015	<0.0002	
4/9/2015	<0.0002	
4/23/2015	<0.0002	
7/30/2015	<0.0002	
3/8/2016	<0.0002	
5/4/2016	<0.0002	
7/18/2016	<0.0002	
9/13/2016	<0.0002	
10/27/2016	<0.0002	
1/13/2017	<0.0002	
3/16/2017	<0.0002	
5/19/2017	<0.0002	
9/19/2017	<0.0002	
3/13/2018	<0.0002	
9/11/2018	<0.0002	
3/8/2019		<0.0002
9/5/2019		<0.0002
3/3/2020		<0.0002
9/4/2020		<0.0002
3/9/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0014 (J)	
7/28/2015	<0.005	
3/1/2016	<0.005	
7/7/2016	<0.005	
3/15/2017	0.0142	
9/15/2017	0.0005 (J)	
3/12/2018	<0.005	
9/6/2018	<0.005	
3/6/2019		<0.005
9/4/2019		0.00041 (J)
3/2/2020		0.00071 (J)
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-36R	GWA-36R
9/15/2014	0.01	
10/3/2014	<0.005	
10/20/2014	0.0043	
11/10/2014	<0.005	
3/2/2015	<0.005	
3/17/2015	<0.005	
4/5/2015	0.0016 (J)	
4/21/2015	0.0033	
7/28/2015	0.0032	
3/1/2016	<0.005	
7/6/2016	0.0007 (J)	
3/14/2017	0.0007 (J)	
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		0.00051 (J)
9/14/2020		<0.005
3/26/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0096 (J)
2/24/2021		0.01

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.00089 (J)
2/24/2021		0.00091 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	<0.005	
5/17/2015	0.0016 (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	
7/7/2016	0.0008 (JD)	
3/15/2017	<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
9/9/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/8/2016	<0.005	
3/15/2017	0.0005 (J)	
9/15/2017	<0.005	
3/13/2018	<0.005	
9/6/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/2/2020		<0.005
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0034	
6/30/2015	<0.005	
7/6/2015	<0.005	
8/12/2015	<0.005	
3/2/2016	<0.005	
7/8/2016	<0.005	
3/16/2017	0.0005 (J)	
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
3/4/2020		<0.005
9/8/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-54	GWA-54
5/9/2015	<0.005	
5/18/2015	<0.005	
5/25/2015	<0.005	
6/9/2015	0.0015 (J)	
6/17/2015	0.0013 (J)	
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	
7/8/2016	<0.005	
3/15/2017	0.0005 (J)	
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
9/8/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/11/2016	<0.005	
3/16/2017	0.0008 (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		0.00061 (J)
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.005	
5/18/2015	0.0018 (J)	
5/26/2015	<0.005	
6/9/2015	0.0022 (J)	
6/17/2015	<0.005	
6/25/2015	<0.005	
7/1/2015	0.0016 (J)	
7/7/2015	<0.005	
8/13/2015	<0.005	
3/3/2016	<0.005	
7/11/2016	0.0007 (J)	
3/16/2017	0.0015 (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
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/11/2016	0.0006 (J)	
3/15/2017	<0.005	
9/15/2017	<0.005	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/4/2020		<0.005
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.0067 (J)
3/9/2021		0.0053

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18	GWC-18
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/5/2014	0.0016 (J)	
3/3/2015	<0.005	
3/18/2015	<0.005	
4/7/2015	0.0014 (J)	
4/23/2015	<0.005	
7/29/2015	0.0015 (J)	
3/7/2016	<0.005	
7/13/2016	0.0007 (J)	
3/23/2017	<0.005	
9/25/2017	0.0015 (J)	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/9/2019		<0.005
3/6/2020		0.0005 (J)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/14/2016	<0.005	
3/21/2017	<0.005	
9/20/2017	0.0006 (J)	
3/14/2018	<0.005	
9/10/2018	<0.005	
3/12/2019		<0.005
9/9/2019		<0.005
3/4/2020		0.00071 (J)
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.0014 (J)
3/9/2021		0.00075 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/14/2016	<0.005	
3/20/2017	<0.005	
9/19/2017	0.0011 (J)	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/11/2019		<0.005
9/5/2019		0.0011 (J)
3/3/2020		0.001 (J)
9/8/2020		0.00083 (J)
3/9/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/15/2016	<0.005	
3/22/2017	<0.005	
9/21/2017	0.0012 (J)	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/6/2019		0.00086 (J)
3/5/2020		0.00075 (J)
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/12/2016	<0.005	
3/20/2017	0.0003 (J)	
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 (D)
3/3/2020		<0.005
9/9/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
7/18/2016	<0.005	
3/16/2017	0.0012 (J)	
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
9/4/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.0059 (J)
2/25/2021		0.0099

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		<0.01
2/25/2021		0.0018 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0011 (J)	
9/9/2016	0.001 (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		0.0016 (J)
9/5/2019		<0.005
3/4/2020		0.0018 (J)
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
9/9/2016	<0.005	
10/26/2016	<0.005	
1/9/2017	0.0011 (J)	
3/15/2017	<0.005	
5/18/2017	<0.005	
9/15/2017	<0.005	
3/13/2018	<0.005	
9/7/2018	<0.005	
3/7/2019		<0.005
9/4/2019		<0.005
3/4/2020		<0.005
9/4/2020		<0.005
2/25/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.005	
9/21/2017	<0.005	
3/14/2018	<0.005	
9/11/2018	<0.005	
3/12/2019		<0.005
9/6/2019		<0.005
3/5/2020		<0.005
9/9/2020		0.0017 (J)
3/10/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-38	GWA-38
9/16/2014	0.00051 (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	
4/6/2015	<0.005	
4/22/2015	<0.005	
7/28/2015	<0.005	
3/2/2016	<0.005	
7/7/2016	<0.005	
3/23/2017	<0.005	
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
9/3/2020		<0.005
2/24/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	0.0013 (J)	
4/23/2015	<0.005	
7/29/2015	<0.005	
3/3/2016	<0.005 (D)	
7/13/2016	<0.005	
3/20/2017	<0.005	
9/21/2017	<0.005	
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
9/9/2020		<0.005
3/9/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-17R	GWC-17R
9/17/2014	<0.005	
10/4/2014	<0.005	
10/21/2014	<0.005	
11/11/2014	0.0007 (J)	
3/3/2015	0.00052 (J)	
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	
7/14/2016	<0.005	
3/21/2017	<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
9/9/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18R	GWC-18R
9/17/2014	0.00058 (J)	
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	
7/13/2016	<0.005	
3/20/2017	<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
9/9/2020		<0.005
2/26/2021		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.001
2/24/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		<0.001
3/26/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.001
2/25/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.001
2/24/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.001
2/26/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.001
2/25/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/4/2020		<0.001
2/25/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.001
2/25/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.001
3/9/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.001
2/26/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.001
3/9/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		<0.001
3/9/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.00016 (J)
3/9/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.00016 (J)
3/10/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		<0.01
3/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		<0.01
2/24/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		<0.01
2/24/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
8/12/2015	0.0279 (o)	
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)
9/9/2020		<0.01
2/25/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<0.01
2/24/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.01
2/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.01
2/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		<0.01
2/25/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.01
2/25/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.01
2/25/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.01
2/25/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
3/9/2021		0.003 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.01
3/10/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-18	GWC-18
9/17/2014	<0.01	
10/4/2014	<0.01	
10/21/2014	<0.01	
11/5/2014	<0.01	
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	
3/23/2017	<0.01	
9/25/2017	<0.01	
3/14/2018	<0.01	
9/11/2018	<0.01	
3/12/2019		<0.01
9/9/2019		0.00078 (J)
3/6/2020		<0.01
9/9/2020		<0.01
2/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		<0.01
2/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.01	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/12/2019		<0.01
9/9/2019		0.00081 (J)
3/4/2020		0.00096 (J)
9/9/2020		<0.01
2/26/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		<0.01
3/9/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-21R
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	
3/8/2016	<0.01	
7/15/2016	<0.01	
3/21/2017	<0.01	
9/19/2017	<0.01	
3/14/2018	<0.01	
9/10/2018	<0.01	
3/11/2019		<0.01
9/6/2019		0.0012 (J)
3/3/2020		0.00085 (J)
9/8/2020		<0.01
3/9/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.01	
3/13/2018	<0.01	
9/7/2018	<0.01	
3/11/2019		<0.01
9/5/2019		0.00094 (J)
3/3/2020		<0.01
9/8/2020		<0.01
3/9/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
3/10/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		<0.01
3/9/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.35
2/24/2021		0.44

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		0.053
3/26/2021		0.046

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.0049 (J)
2/24/2021		0.0038 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	
3/2/2015	0.041 (o)	
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	<0.02	
9/19/2017	0.002 (J)	
3/13/2018	<0.02	
9/6/2018	<0.02	
3/7/2019		<0.02
9/4/2019		0.00565 (JD)
3/2/2020		0.0032 (J)
9/3/2020		<0.02
2/24/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-51RZ	GWA-51RZ
5/8/2015	0.015	
5/17/2015	0.12 (o)	
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	<0.02 (D)	
9/19/2017	<0.02 (D)	
3/13/2018	<0.02	
9/7/2018	<0.02	
3/8/2019		<0.02
9/4/2019		0.0051 (J)
3/3/2020		0.0035 (J)
9/9/2020		<0.02
2/25/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52	GWA-52
5/8/2015	<0.02	
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	<0.02	
7/6/2015	<0.02	
8/12/2015	0.0033 (BJ)	
2/29/2016	<0.02	
7/8/2016	<0.02	
3/15/2017	0.0013 (J)	
9/15/2017	<0.02	
3/13/2018	<0.02	
9/6/2018	<0.02	
3/7/2019		<0.02
9/4/2019		0.0045 (J)
3/2/2020		0.0024 (J)
9/3/2020		<0.02
2/24/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53	GWA-53
5/9/2015	0.0023 (J)	
5/18/2015	0.0034	
5/25/2015	<0.02	
6/8/2015	0.0015 (J)	
6/17/2015	<0.02	
6/24/2015	<0.02	
6/30/2015	<0.02	
7/6/2015	<0.02	
8/12/2015	0.004 (BJ)	
3/2/2016	0.0035 (J)	
7/8/2016	<0.02	
3/16/2017	0.0029 (J)	
9/19/2017	0.0018 (J)	
3/13/2018	0.0021 (J)	
9/11/2018	<0.02	
3/8/2019		<0.02
9/5/2019		0.0064 (J)
3/4/2020		0.004 (J)
9/8/2020		<0.02
2/26/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-53R	GWA-53R
5/8/2015	0.0022 (J)	
5/17/2015	<0.02	
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	<0.02	
8/12/2015	0.0031 (BJ)	
3/2/2016	0.0028 (J)	
7/11/2016	<0.02	
3/16/2017	0.0018 (J)	
9/19/2017	<0.02	
3/13/2018	<0.02	
9/11/2018	<0.02	
3/12/2019		<0.02
9/5/2019		0.0098 (J)
3/4/2020		0.0027 (J)
9/8/2020		<0.02
2/26/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-54	GWA-54
5/9/2015	<0.02	
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	<0.02	
7/1/2015	<0.02	
7/7/2015	<0.02	
8/12/2015	0.0015 (BJ)	
3/2/2016	<0.02	
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	<0.02	
3/7/2019		<0.02
9/5/2019		0.0048 (J)
3/3/2020		0.0024 (J)
9/8/2020		<0.02
2/25/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55	GWA-55
5/9/2015	<0.02	
5/18/2015	0.0016 (J)	
5/26/2015	<0.02	
6/9/2015	0.0026	
6/17/2015	0.0017 (J)	
6/25/2015	<0.02	
7/1/2015	<0.02	
7/7/2015	<0.02	
8/13/2015	0.002 (BJ)	
3/2/2016	<0.02	
7/11/2016	<0.02	
3/16/2017	0.0015 (J)	
9/15/2017	<0.02	
3/12/2018	<0.02	
9/7/2018	<0.02	
3/8/2019		<0.02
9/5/2019		0.0056 (J)
3/3/2020		0.005 (J)
9/4/2020		<0.02
2/25/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R	GWA-55R
5/9/2015	<0.02	
5/18/2015	0.0033	
5/26/2015	0.0022 (J)	
6/9/2015	0.0082	
6/17/2015	<0.02	
6/25/2015	<0.02	
7/1/2015	0.0064	
7/7/2015	<0.02	
8/13/2015	0.0028 (BJ)	
3/3/2016	<0.02	
7/11/2016	<0.02	
3/16/2017	0.0054 (J)	
9/18/2017	<0.02	
3/12/2018	<0.02	
9/7/2018	<0.02	
3/7/2019		<0.02
9/5/2019		0.0045 (J)
3/4/2020		0.0028 (J)
9/4/2020		<0.02
2/25/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56	GWA-56
5/9/2015	<0.02	
5/19/2015	0.0045	
5/26/2015	0.0038	
6/9/2015	0.0037	
6/17/2015	0.0018 (J)	
6/25/2015	<0.02	
7/1/2015	<0.02	
7/7/2015	<0.02	
8/13/2015	0.0017 (BJ)	
3/3/2016	<0.02	
7/11/2016	0.0018 (J)	
3/15/2017	0.0034 (J)	
9/15/2017	<0.02	
3/13/2018	0.0029 (J)	
9/7/2018	<0.02	
3/7/2019		<0.02
9/4/2019		0.0052 (J)
3/4/2020		0.0029 (J)
9/4/2020		<0.02
2/25/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		0.037
3/9/2021		0.025

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
9/22/2017	0.0023 (J)	
3/14/2018	0.0021 (J)	
9/11/2018	<0.02	
3/12/2019		0.0038 (J)
9/10/2019		0.0055 (J)
3/5/2020		0.0035 (J)
9/9/2020		<0.02
3/10/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
9/25/2017	0.002 (J)	
3/14/2018	0.0036 (J)	
9/11/2018	<0.02	
3/12/2019		<0.02
9/9/2019		0.0063 (J)
3/6/2020		0.0045 (J)
9/9/2020		<0.02
2/26/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/18/2015	0.0016 (J)	
4/7/2015	<0.02	
4/23/2015	<0.02	
7/29/2015	<0.02	
3/7/2016	<0.02	
7/13/2016	0.0013 (J)	
3/20/2017	<0.02	
9/21/2017	0.0018 (J)	
3/14/2018	<0.02	
9/7/2018	<0.02	
3/12/2019		<0.02
9/6/2019		0.0046 (J)
3/5/2020		0.0024 (J)
9/9/2020		<0.02
2/26/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
7/14/2016	<0.02	
3/21/2017	<0.02	
9/20/2017	0.0062 (J)	
3/14/2018	<0.02	
9/10/2018	<0.02	
3/12/2019		<0.02
9/9/2019		0.0062 (J)
3/4/2020		0.0072 (J)
9/9/2020		<0.02
2/26/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/22/2017	<0.02	
9/19/2017	0.0031 (J)	
3/14/2018	<0.02	
9/10/2018	<0.02	
3/12/2019		<0.02
9/6/2019		0.00455 (JD)
3/5/2020		0.0023 (J)
9/4/2020		<0.02
3/9/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/21/2017	<0.02	
9/19/2017	0.0022 (J)	
3/14/2018	0.0049 (J)	
9/10/2018	<0.02	
3/11/2019		0.0034 (J)
9/6/2019		0.045
3/3/2020		0.0044 (J)
9/8/2020		0.0063 (J)
3/9/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/7/2016	<0.02	
7/14/2016	<0.02	
3/20/2017	0.0075 (J)	
9/19/2017	<0.02	
3/13/2018	<0.02	
9/7/2018	<0.02	
3/11/2019		0.0021 (J)
9/5/2019		0.0053 (J)
3/3/2020		0.0029 (J)
9/8/2020		0.0037 (J)
3/9/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/9/2016	<0.02	
7/15/2016	<0.02	
3/22/2017	<0.02	
9/21/2017	0.0034 (J)	
3/14/2018	<0.02	
9/11/2018	<0.02	
3/12/2019		<0.02
9/6/2019		0.0059 (J)
3/5/2020		0.0084 (J)
9/9/2020		<0.02
3/10/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		0.0048 (J)
3/9/2021		0.0063 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/11/2021 9:54 AM View: Appendix I

Plant Bowen Client: Southern Company Data: Bowen 3&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	<0.02	
3/20/2015	<0.02	
4/9/2015	<0.02	
4/23/2015	<0.02	
7/30/2015	<0.02	
3/8/2016	0.00198 (J)	
7/18/2016	<0.02	
3/16/2017	0.0026 (J)	
9/19/2017	<0.02	
3/13/2018	<0.02	
9/11/2018	<0.02	
3/8/2019		<0.02
9/5/2019		0.0053 (J)
3/3/2020		0.0027 (J)
9/4/2020		<0.02
3/9/2021		<0.02

FIGURE E.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 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 N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWA-55	3.939	n/a	2/25/2021	6.7	Yes	13	3.137	0.3098	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55R	3.604	n/a	2/25/2021	4.8	Yes	13	2.938	0.2574	0	None	No	0.0006839	Param Intra 1 of 2
pH (pH units)	GWC-25R	7.874	7.241	3/9/2021	8.07	Yes	13	7.558	0.1224	0	None	No	0.000342	Param Intra 1 of 2
Sulfate (mg/L)	GWA-52	12.64	n/a	2/24/2021	29.2	Yes	13	6.378	2.42	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/9/2021	10.5	Yes	13	3.733	1.614	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/10/2021	56.8	Yes	13	13.96	4.844	0	None	No	0.0006839	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWA-36	2.751	n/a	2/24/2021	2	No	13	2.195	0.2147	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-36R	3.698	n/a	3/26/2021	2.5	No	13	3.017	0.2633	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-37	1.522	n/a	2/24/2021	0.84J	No	13	1.022	0.1933	7.692	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-38	3.142	n/a	2/24/2021	3.1	No	13	2.473	0.2586	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-51RZ	4.153	n/a	2/25/2021	2.7	No	13	3.179	0.3765	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-52	3.83	n/a	2/24/2021	3.3	No	13	2.279	0.5996	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-53	2.851	n/a	2/26/2021	2.3	No	13	2.48	0.1434	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-53R	3.327	n/a	2/26/2021	2.4	No	13	0.9493	0.09766	0	None	ln(x)	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-54	1.953	n/a	2/25/2021	0.78J	No	13	1.201	0.2909	7.692	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55	3.939	n/a	2/25/2021	6.7	Yes	13	3.137	0.3098	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-55R	3.604	n/a	2/25/2021	4.8	Yes	13	2.938	0.2574	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWA-56	10.33	n/a	2/25/2021	4.4	No	13	6.322	1.55	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-16R	2.959	n/a	3/9/2021	1.5	No	13	1.914	0.4039	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-17R	7.985	n/a	3/10/2021	4.7	No	13	6.269	0.6635	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-18	2.764	n/a	2/26/2021	2.3	No	13	2.171	0.2291	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-18R	3.3	n/a	2/26/2021	2.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-19R	3.064	n/a	2/26/2021	2.4	No	13	2.447	0.2387	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-20R	2.711	n/a	3/9/2021	1.9	No	13	1.797	0.3534	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-21R	5.133	n/a	3/9/2021	5	No	13	4.046	0.42	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-22R	3.3	n/a	3/9/2021	2.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Chloride (mg/L)	GWC-23R	2.938	n/a	3/10/2021	1.6	No	13	2.051	0.3427	0	None	No	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-24R	3.423	n/a	3/9/2021	2.1	No	13	6.078	2.178	7.692	None	x^2	0.0006839	Param Intra 1 of 2
Chloride (mg/L)	GWC-25R	3.206	n/a	3/9/2021	2.3	No	13	2.661	0.2106	0	None	No	0.0006839	Param Intra 1 of 2
pH (pH units)	GWA-36	7.43	6.39	2/24/2021	6.69	No	13	6.91	0.2008	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-36R	7.61	7.078	3/26/2021	7.11	No	13	7.344	0.1029	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-37	6.403	4.874	2/24/2021	5.49	No	13	5.638	0.2954	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-38	6.226	4.732	2/24/2021	5.23	No	13	5.479	0.2887	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-51RZ	7.749	7.257	2/25/2021	7.43	No	14	7.503	0.09723	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-52	7.772	7.234	2/24/2021	7.53	No	13	7.503	0.104	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-53	7.944	7.476	2/26/2021	7.7	No	13	7.71	0.09055	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-53R	7.946	7.603	2/26/2021	7.72	No	13	7.775	0.06628	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-54	7.939	7.275	2/25/2021	7.55	No	13	7.607	0.1283	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-55	7.85	6.813	2/25/2021	7.05	No	13	7.332	0.2005	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-55R	8.134	7.032	2/25/2021	7.27	No	13	7.583	0.2129	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWA-56	8.435	7.551	2/25/2021	7.85	No	14	7.993	0.1746	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-16R	7.505	6.817	3/9/2021	7.34	No	13	7.161	0.1329	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-17R	7.311	7.071	3/10/2021	7.27	No	13	7.191	0.04645	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-18	7.616	5.885	2/26/2021	7.07	No	13	6.751	0.3346	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-18R	8.062	7.418	2/26/2021	7.81	No	13	7.74	0.1244	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-19R	7.885	7.519	2/26/2021	7.73	No	13	7.702	0.07073	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-20R	7.945	7.323	3/9/2021	7.81	No	14	7.634	0.1228	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-21R	7.342	6.761	3/9/2021	6.98	No	13	7.052	0.1123	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-22R	8.056	7.094	3/9/2021	7.35	No	14	7.575	0.19	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-23R	7.832	6.951	3/10/2021	7.41	No	13	7.392	0.1702	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-24R	8.014	6.761	3/9/2021	7.8	No	13	7.388	0.2421	0	None	No	0.000342	Param Intra 1 of 2
pH (pH units)	GWC-25R	7.874	7.241	3/9/2021	8.07	Yes	13	7.558	0.1224	0	None	No	0.000342	Param Intra 1 of 2
Sulfate (mg/L)	GWA-36	2.854	n/a	2/24/2021	0.51J	No	13	1.316	0.5945	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-36R	9.874	n/a	3/26/2021	5.4	No	13	1.713	0.5527	0	None	sqrt(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-37	1.16	n/a	2/24/2021	0.5ND	No	13	0.661	0.1927	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-38	2.958	n/a	2/24/2021	0.72J	No	13	1.285	0.6468	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-51RZ	32.12	n/a	2/25/2021	29.5	No	13	20.19	4.61	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-52	12.64	n/a	2/24/2021	29.2	Yes	13	6.378	2.42	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-53	2.285	n/a	2/26/2021	1.6	No	13	1.903	0.1477	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-53R	2.388	n/a	2/26/2021	1.6	No	13	1.939	0.1737	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-54	9.872	n/a	2/25/2021	1.7	No	13	5.531	1.678	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-55	48.37	n/a	2/25/2021	34.5	No	13	19.75	11.06	0	None	No	0.0006839	Param Intra 1 of 2

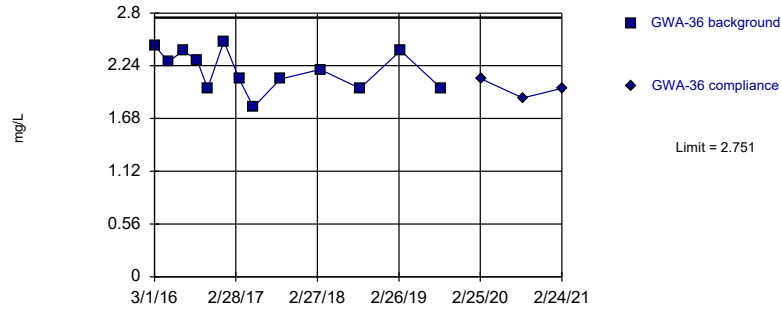
Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWA-55R	29.73	n/a	2/25/2021	23.2	No	13	19.94	3.786	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWA-56	149.4	n/a	2/25/2021	62.6	No	13	84.7	25.01	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-16R	13.9	n/a	3/9/2021	12.9	No	13	7.229	2.577	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-17R	9.253	n/a	3/10/2021	7.3	No	12	1.876	0.1321	0	None	ln(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18	2.59	n/a	2/26/2021	2.1	No	13	2.009	0.2247	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-18R	2.805	n/a	2/26/2021	2.1	No	12	2.362	0.1675	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-19R	4.3	n/a	2/26/2021	3.4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Sulfate (mg/L)	GWC-20R	1.97	n/a	3/9/2021	1.5	No	13	1.943	0.7494	0	None	x^2	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-21R	7.908	n/a	3/9/2021	10.5	Yes	13	3.733	1.614	7.692	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-22R	2.79	n/a	3/9/2021	1.4	No	12	2.172	0.2339	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-23R	26.49	n/a	3/10/2021	56.8	Yes	13	13.96	4.844	0	None	No	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-24R	16.95	n/a	3/9/2021	1.6	No	13	1.955	0.8353	0	None	sqrt(x)	0.0006839	Param Intra 1 of 2
Sulfate (mg/L)	GWC-25R	2.06	n/a	3/9/2021	1.6	No	13	1.614	0.1727	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-36	155.2	n/a	2/24/2021	60	No	13	96.92	22.54	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-36R	235.5	n/a	3/26/2021	123	No	13	153.8	31.56	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-37	81.94	n/a	2/24/2021	10	No	12	4.428	1.75	33.33	Kaplan-Meier	sqrt(x)	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-38	119.7	n/a	2/24/2021	12	No	13	6.448	1.736	38.46	Kaplan-Meier	sqrt(x)	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-51RZ	343.9	n/a	2/25/2021	217	No	13	216.5	49.22	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-52	179.8	n/a	2/24/2021	144	No	12	141.4	14.53	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-53	174.6	n/a	2/26/2021	128	No	13	130.5	17.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-53R	193.3	n/a	2/26/2021	98	No	12	134.6	22.2	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-54	181.6	n/a	2/25/2021	124	No	13	125.2	21.8	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-55	277	n/a	2/25/2021	217	No	13	192.6	32.62	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-55R	247.1	n/a	2/25/2021	194	No	13	176.1	27.46	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWA-56	498.4	n/a	2/25/2021	284	No	13	328.7	65.59	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-16R	365	n/a	3/9/2021	335	No	13	290.5	28.8	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-17R	384.7	n/a	3/10/2021	256	No	13	330.2	21.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-18	161.2	n/a	2/26/2021	90	No	13	93.77	26.05	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-18R	191.3	n/a	2/26/2021	121	No	13	142.6	18.81	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-19R	229.2	n/a	2/26/2021	172	No	13	168.6	23.42	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-20R	234.6	n/a	3/9/2021	163	No	13	195.7	15.04	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-21R	435.3	n/a	3/9/2021	286	No	13	286.9	57.36	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-22R	199.8	n/a	3/9/2021	161	No	13	163.1	14.18	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-23R	374.2	n/a	3/10/2021	333	No	13	294.5	30.84	0	None	No	0.0006839	Param Intra 1 of 2
Total Dissolved Solids (mg/l)	GWC-24R	209	n/a	3/9/2021	158	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/l)	GWC-25R	194.6	n/a	3/9/2021	153	No	13	23678	5490	0	None	x^2	0.0006839	Param Intra 1 of 2

Within Limit

Prediction Limit Intrawell Parametric

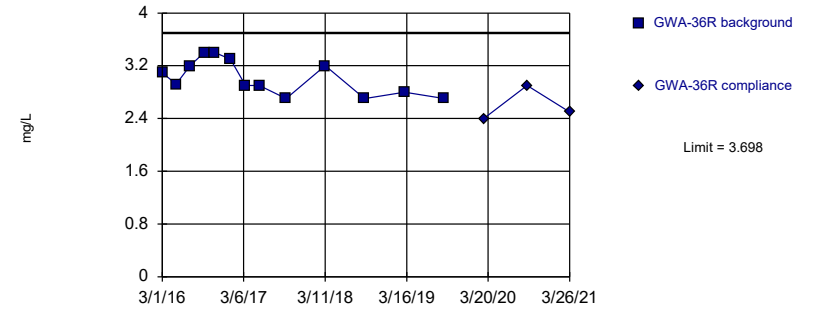


Background Data Summary: Mean=2.195, Std. Dev.=0.2147, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.948, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

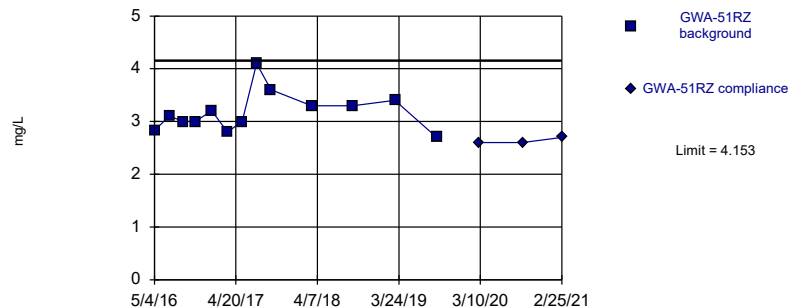
Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric



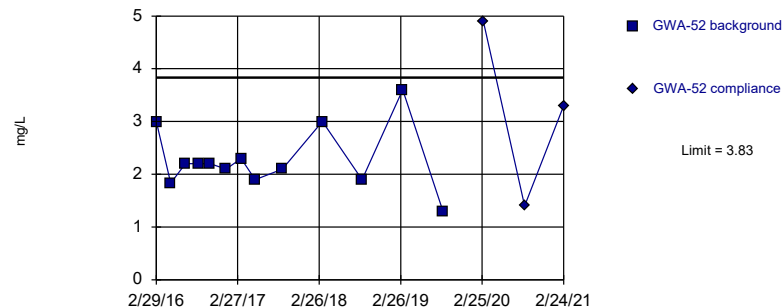
Within Limit
 Prediction Limit
 Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

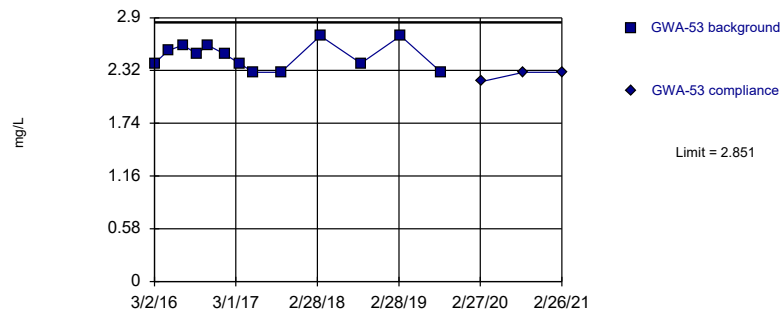
Within Limit
 Prediction Limit
 Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

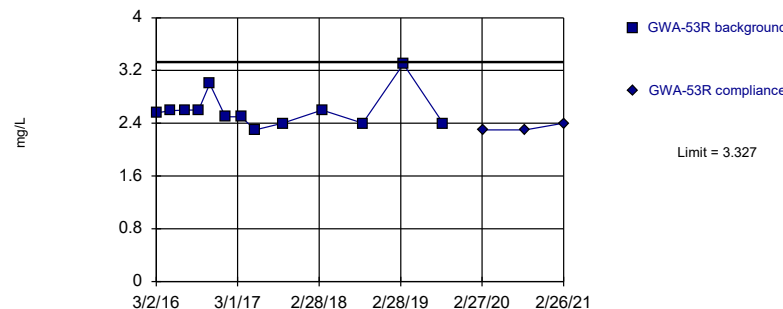
Within Limit
 Prediction Limit
 Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit
 Prediction Limit
 Intrawell Parametric

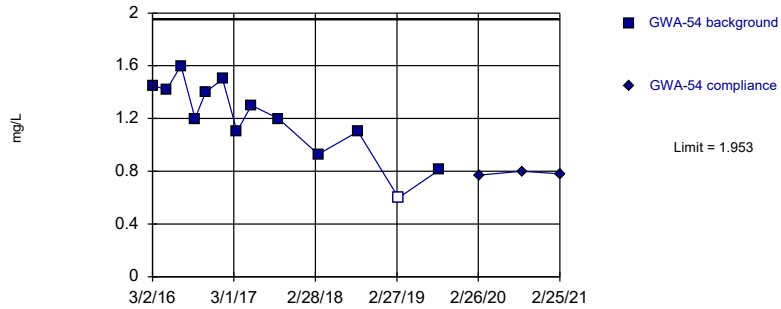


Background Data Summary (based on natural log transformation): Mean=0.9493, Std. Dev.=0.09766, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8227, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

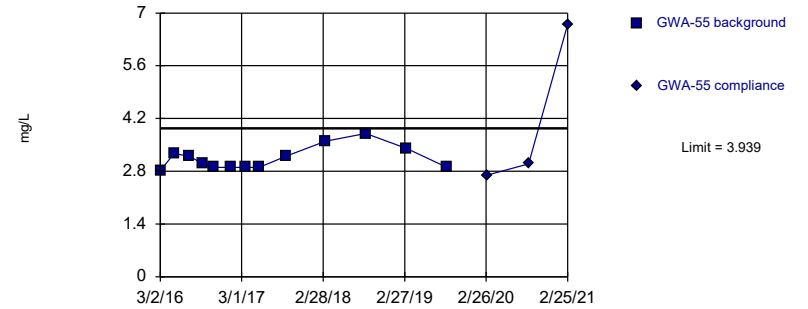


Background Data Summary: Mean=1.201, Std. Dev.=0.2909, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limit

Prediction Limit
 Intrawell Parametric

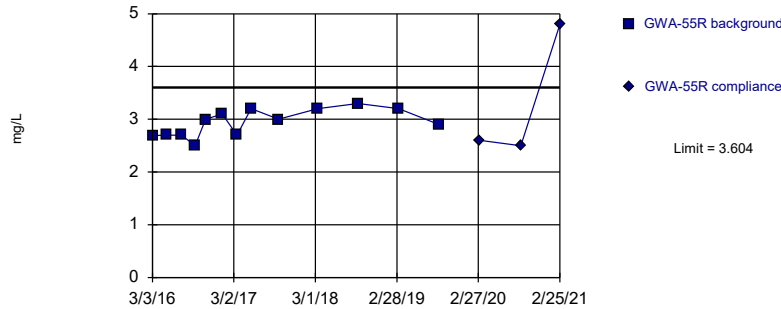


Background Data Summary: Mean=3.137, Std. Dev.=0.3098, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8568, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limit

Prediction Limit
 Intrawell Parametric

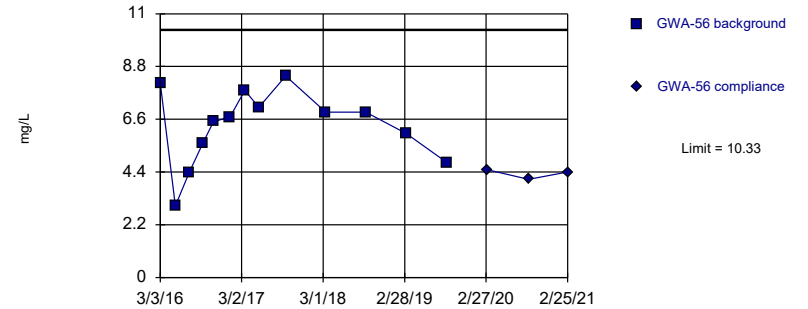


Background Data Summary: Mean=2.938, Std. Dev.=0.2574, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
 Intrawell Parametric

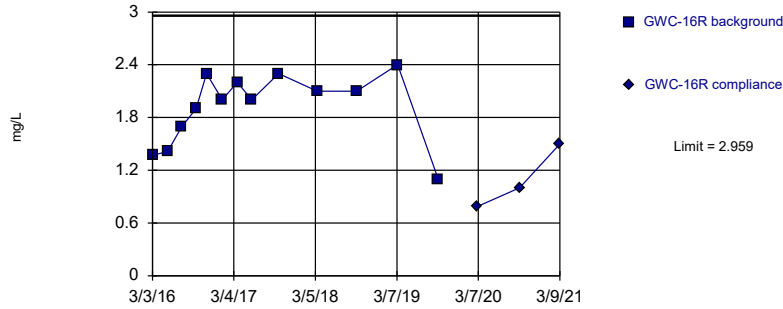


Background Data Summary: Mean=6.322, Std. Dev.=1.55, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

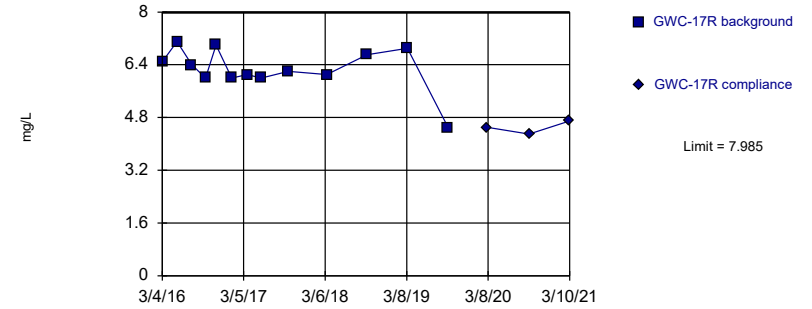


Background Data Summary: Mean=1.914, Std. Dev.=0.4039, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9077, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

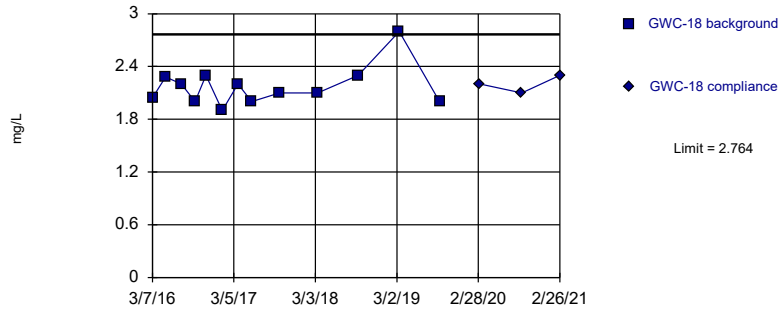


Background Data Summary: Mean=6.269, Std. Dev.=0.6635, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8519, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

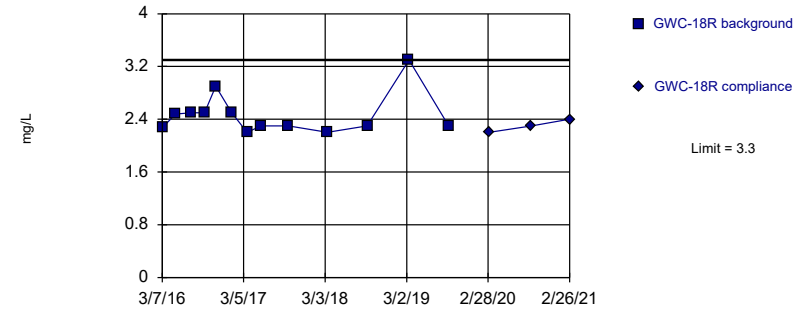


Background Data Summary: Mean=2.171, Std. Dev.=0.2291, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.834, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

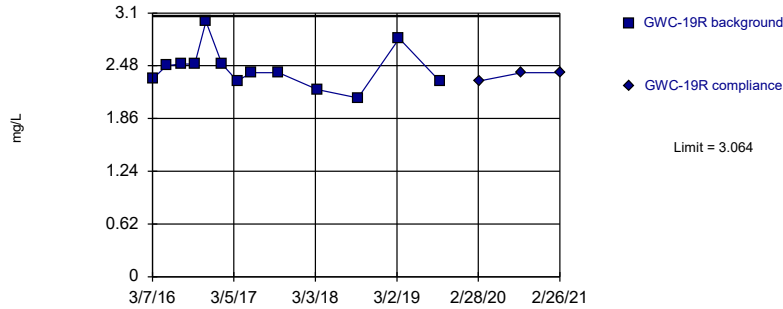


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

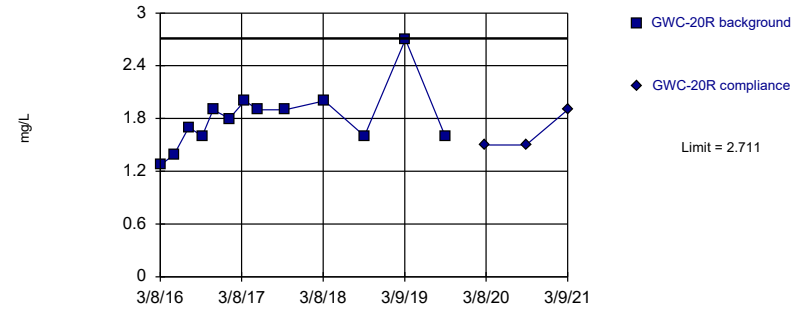


Background Data Summary: Mean=2.447, Std. Dev.=0.2387, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9074, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

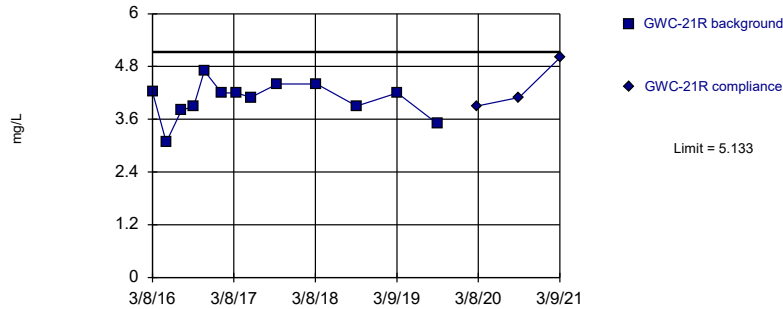


Background Data Summary: Mean=1.797, Std. Dev.=0.3534, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8987, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

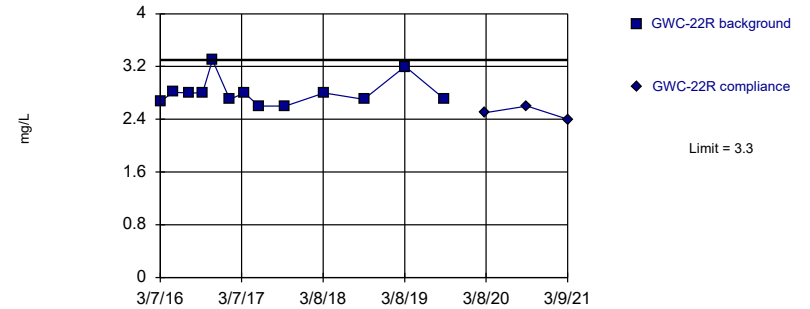


Background Data Summary: Mean=4.046, Std. Dev.=0.42, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

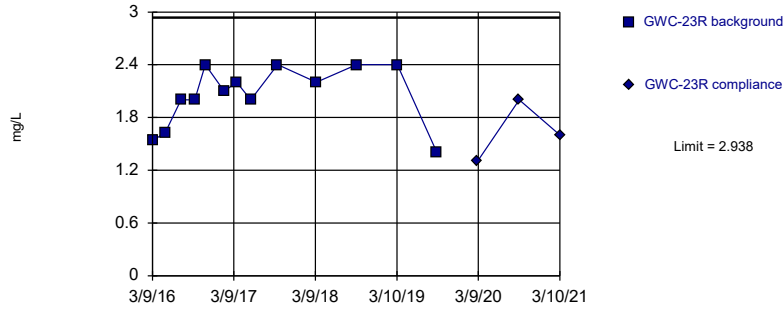


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

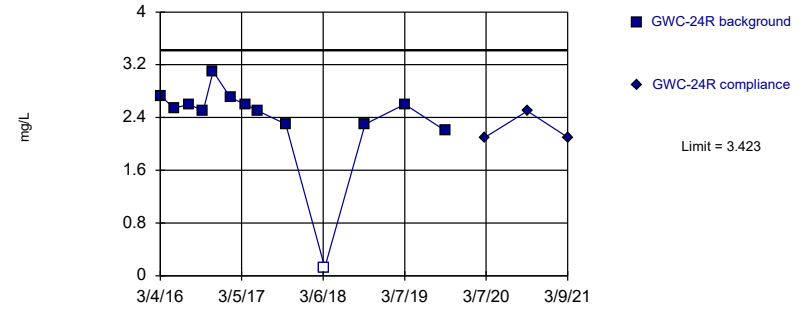


Background Data Summary: Mean=2.051, Std. Dev.=0.3427, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8748, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

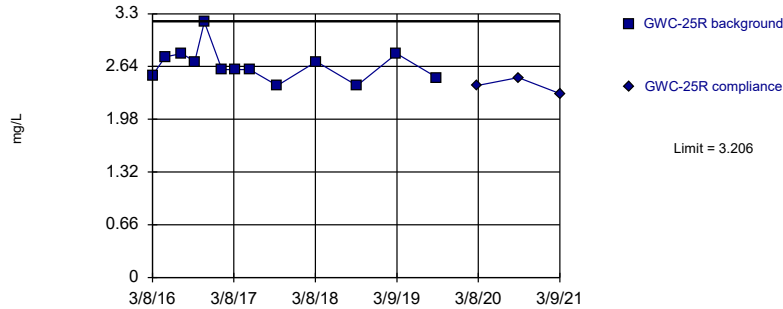


Background Data Summary (based on square transformation): Mean=6.078, Std. Dev.=2.178, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8182, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

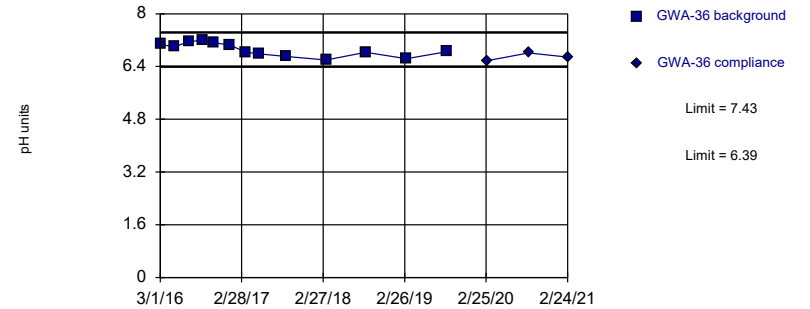


Background Data Summary: Mean=2.661, Std. Dev.=0.2106, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8934, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Chloride Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

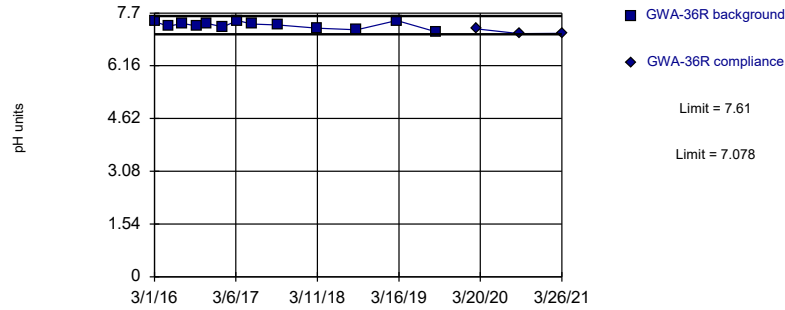


Background Data Summary: Mean=6.91, Std. Dev.=0.2008, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

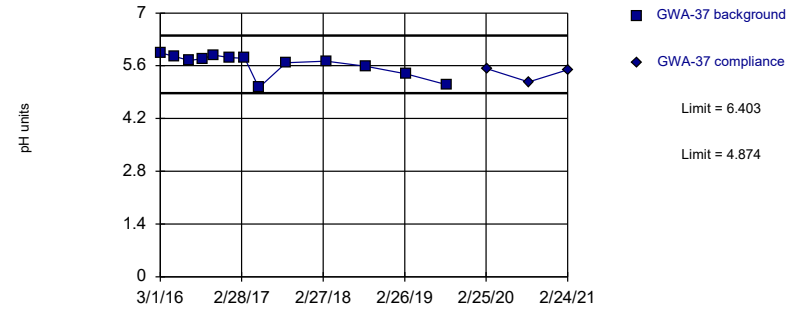


Background Data Summary: Mean=7.344, Std. Dev.=0.1029, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

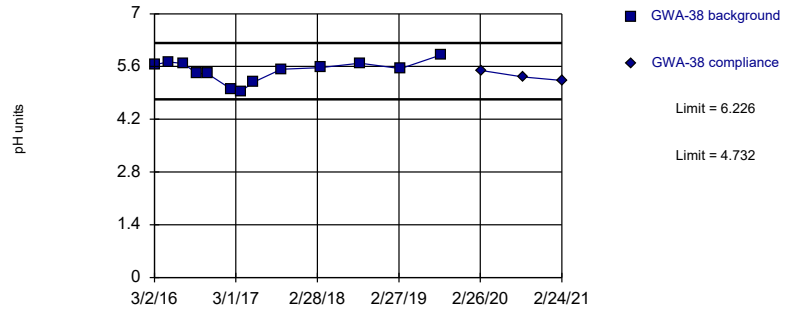


Background Data Summary: Mean=5.638, Std. Dev.=0.2954, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8176, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

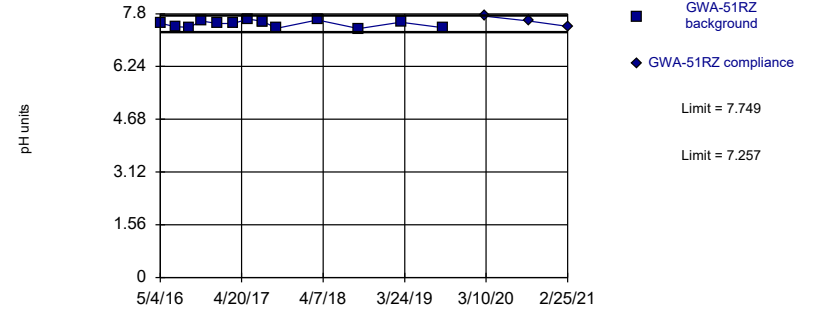


Background Data Summary: Mean=5.479, Std. Dev.=0.2887, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9199, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

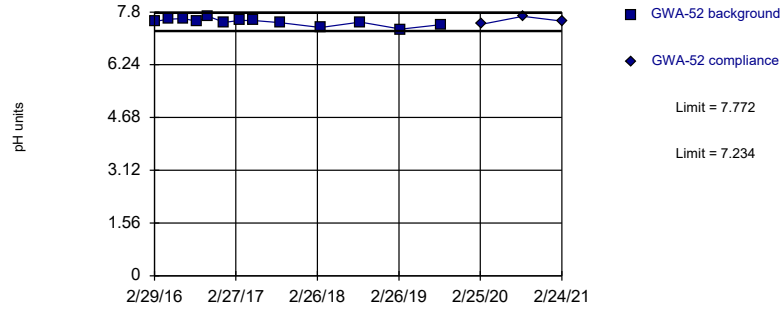


Background Data Summary: Mean=7.503, Std. Dev.=0.09723, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9111, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

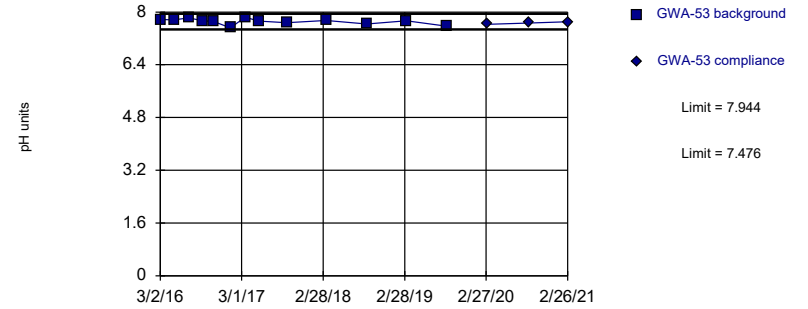


Background Data Summary: Mean=7.503, Std. Dev.=0.104, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

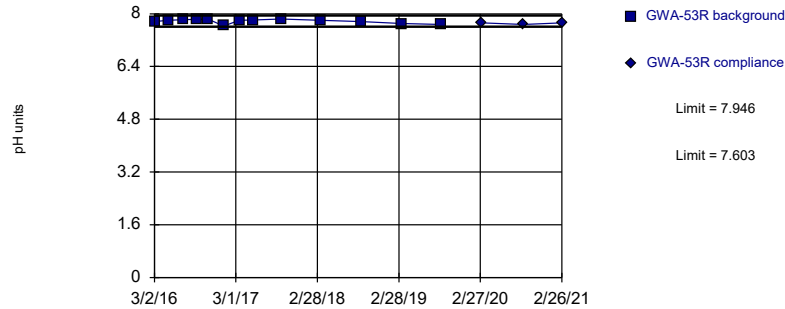


Background Data Summary: Mean=7.71, Std. Dev.=0.09055, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9359, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

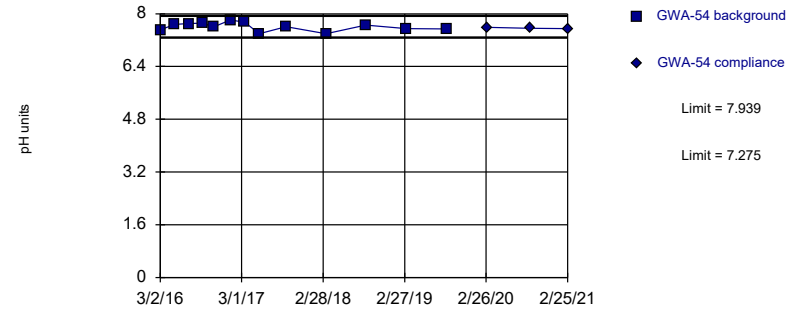


Background Data Summary: Mean=7.775, Std. Dev.=0.06628, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8592, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit Intrawell Parametric

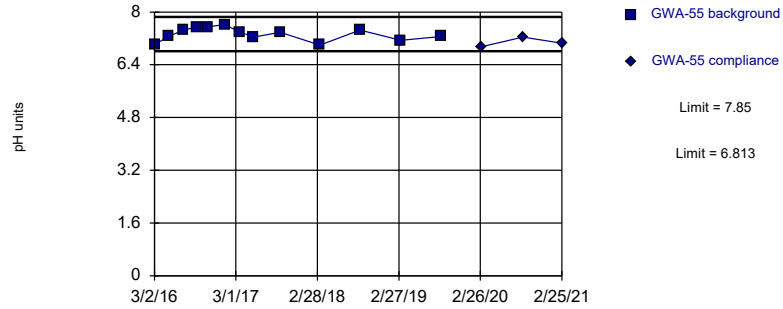


Background Data Summary: Mean=7.607, Std. Dev.=0.1283, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

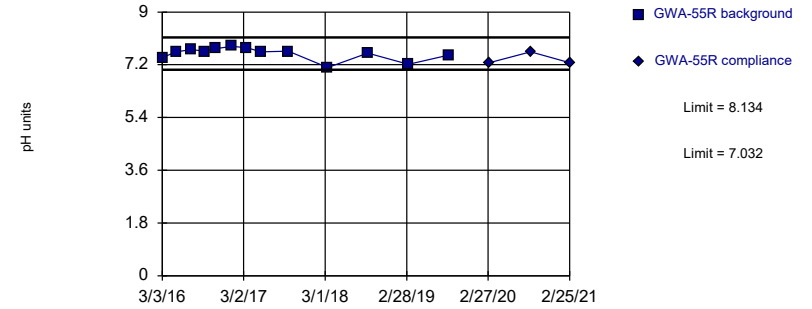


Background Data Summary: Mean=7.332, Std. Dev.=0.2005, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9445, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

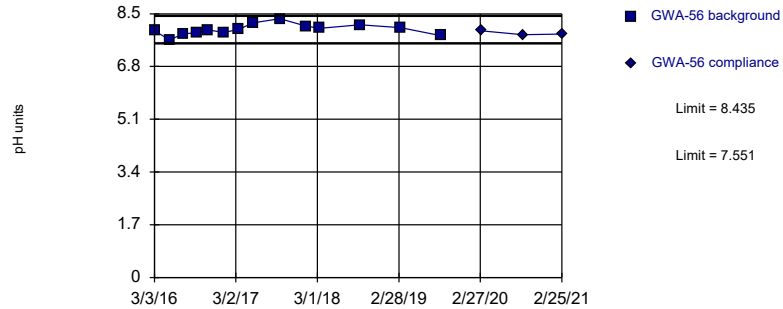


Background Data Summary: Mean=7.583, Std. Dev.=0.2129, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8676, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

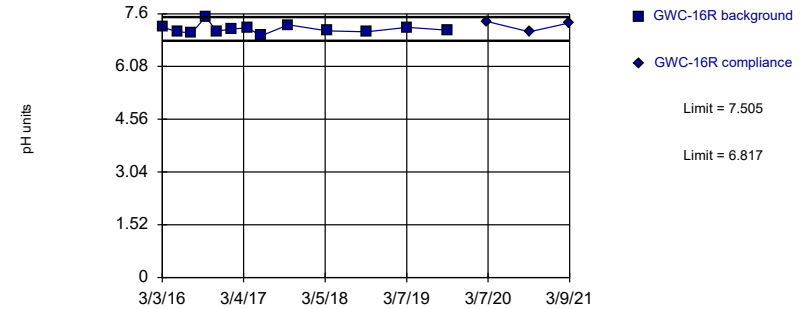


Background Data Summary: Mean=7.993, Std. Dev.=0.1746, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9953, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

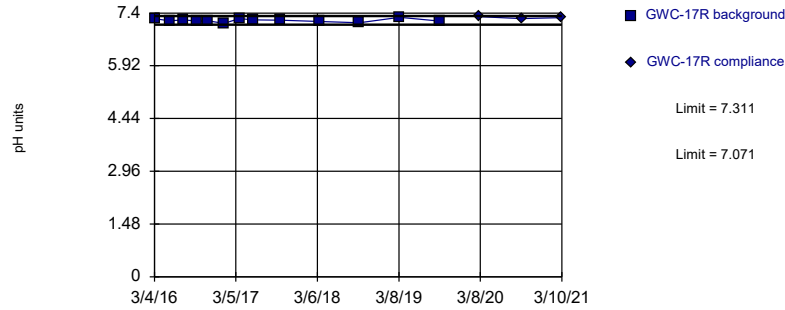


Background Data Summary: Mean=7.161, Std. Dev.=0.1329, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8906, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

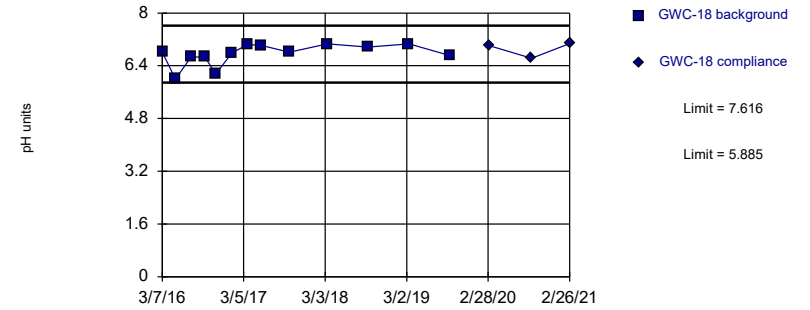


Background Data Summary: Mean=7.191, Std. Dev.=0.04645, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9798, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

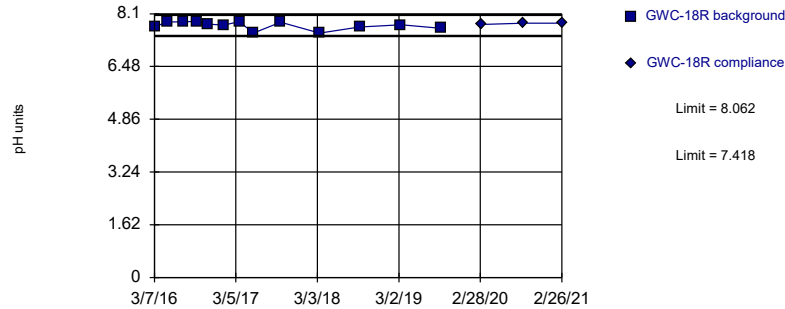


Background Data Summary: Mean=6.751, Std. Dev.=0.3346, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8196, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

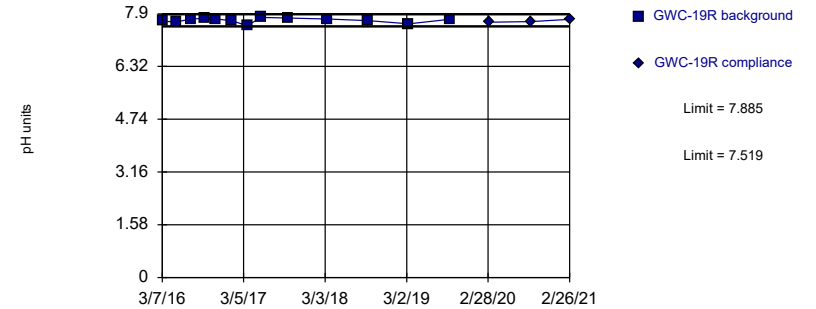


Background Data Summary: Mean=7.74, Std. Dev.=0.1244, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8701, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

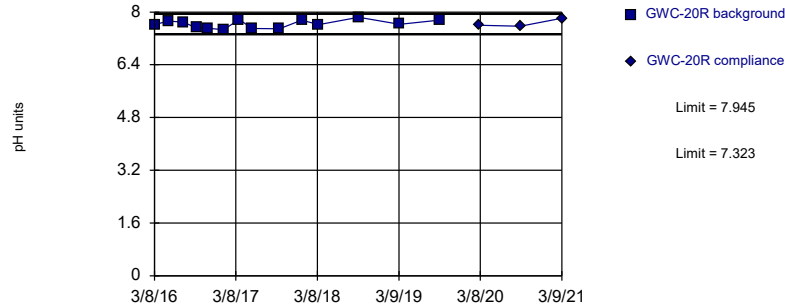


Background Data Summary: Mean=7.702, Std. Dev.=0.07073, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9048, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

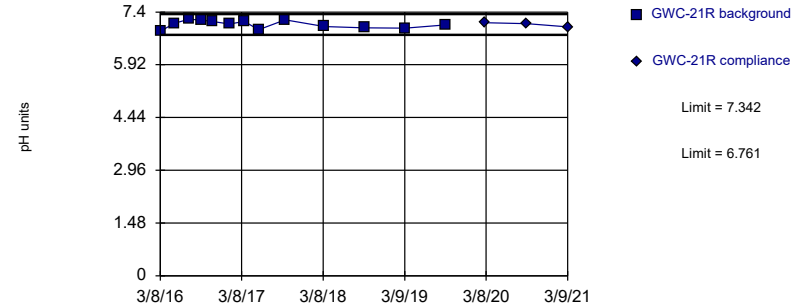


Background Data Summary: Mean=7.634, Std. Dev.=0.1228, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

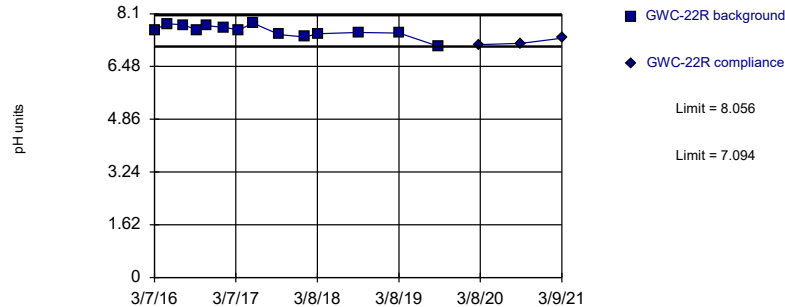


Background Data Summary: Mean=7.052, Std. Dev.=0.1123, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

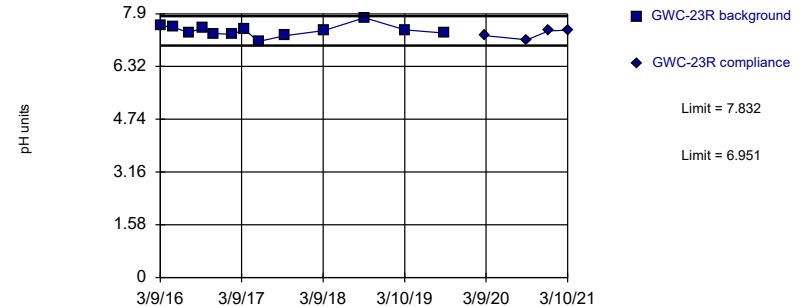


Background Data Summary: Mean=7.575, Std. Dev.=0.19, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9133, critical = 0.825. Kappa = 2.532 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

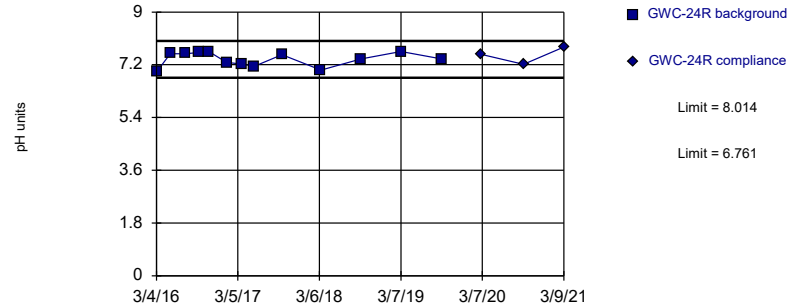


Background Data Summary: Mean=7.392, Std. Dev.=0.1702, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limits

Prediction Limit
Intrawell Parametric

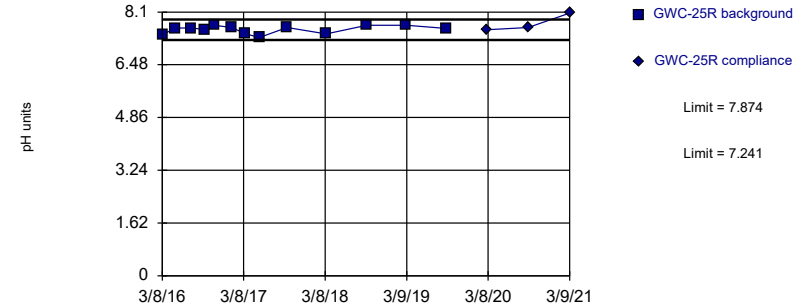


Background Data Summary: Mean=7.388, Std. Dev.=0.2421, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limits

Prediction Limit
Intrawell Parametric

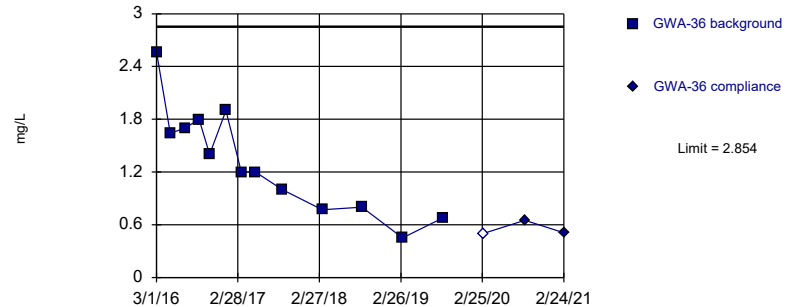


Background Data Summary: Mean=7.558, Std. Dev.=0.1224, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8787, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: pH Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

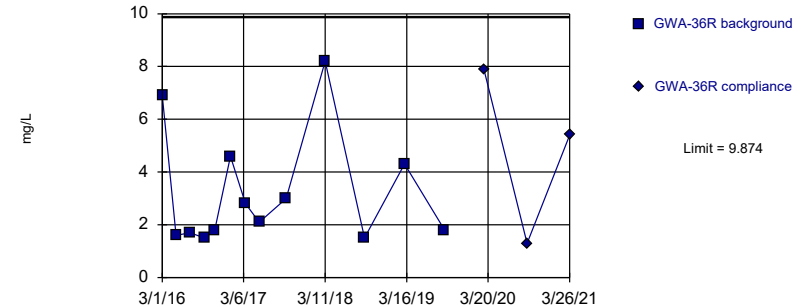


Background Data Summary: Mean=1.316, Std. Dev.=0.5945, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

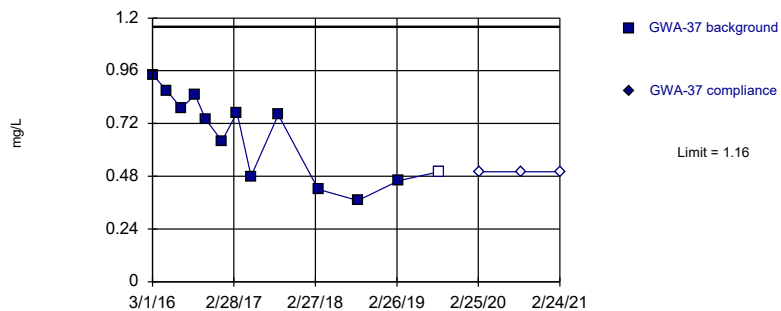


Background Data Summary (based on square root transformation): Mean=1.713, Std. Dev.=0.5527, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.834, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

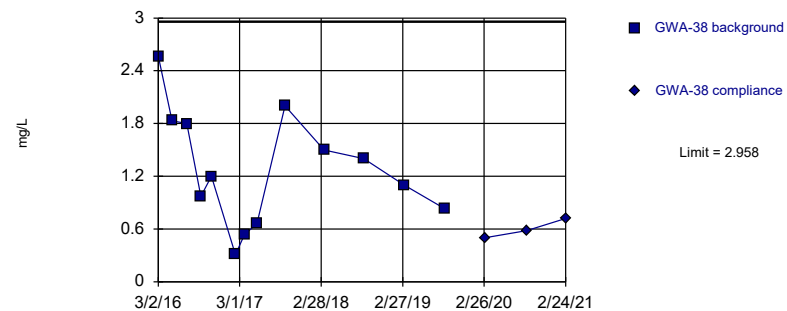


Background Data Summary: Mean=0.661, Std. Dev.=0.1927, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9182, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

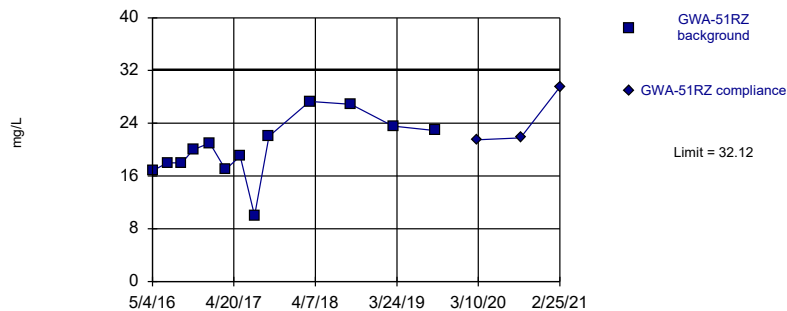


Background Data Summary: Mean=1.285, Std. Dev.=0.6468, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9792, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

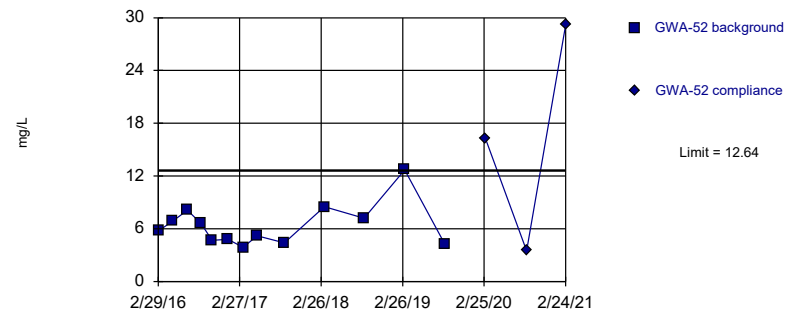


Background Data Summary: Mean=20.19, Std. Dev.=4.61, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

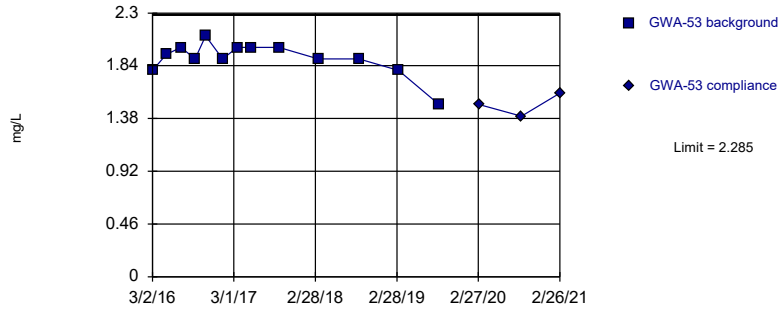
Exceeds Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

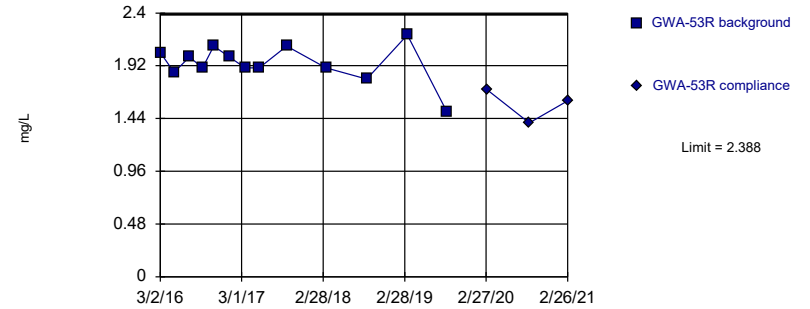


Background Data Summary: Mean=1.903, Std. Dev.=0.1477, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8328, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

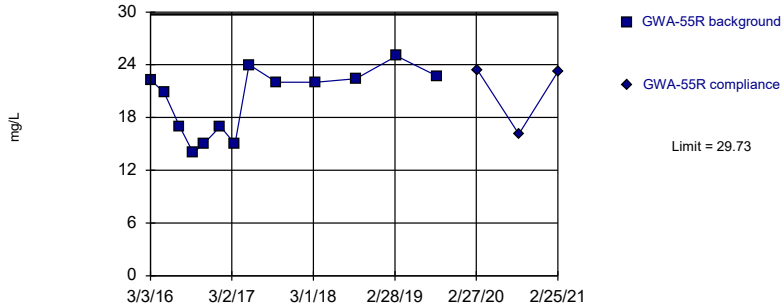
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

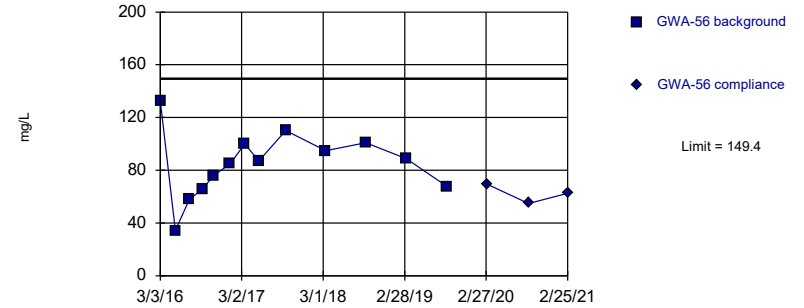


Background Data Summary: Mean=19.94, Std. Dev.=3.786, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8818, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

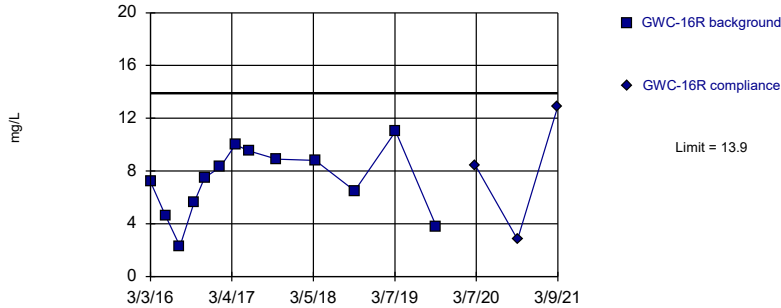


Background Data Summary: Mean=84.7, Std. Dev.=25.01, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9873, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

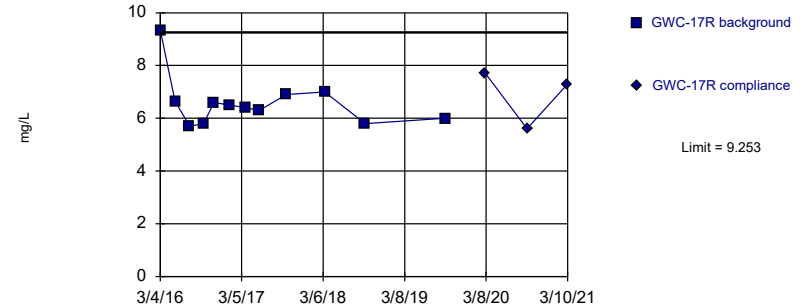


Background Data Summary: Mean=7.229, Std. Dev.=2.577, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

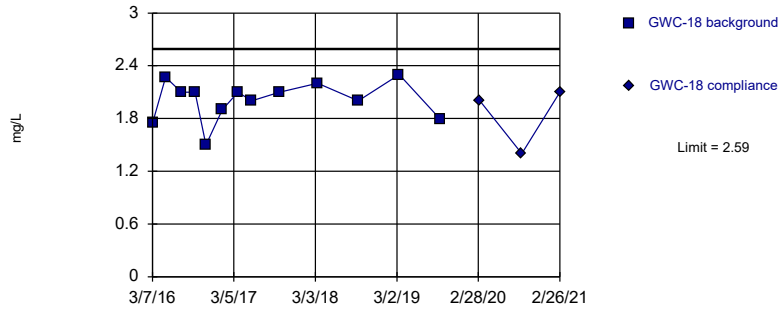
Prediction Limit
Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

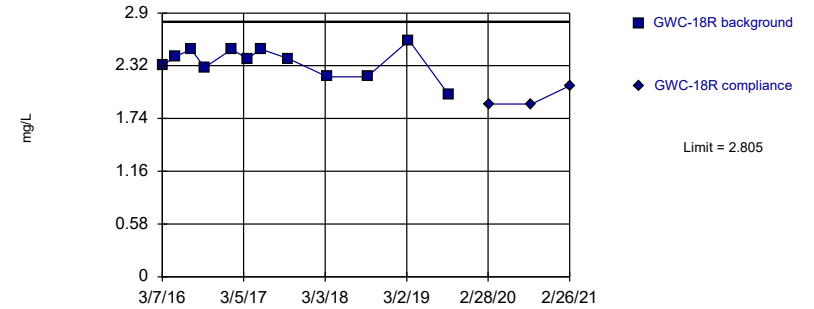
Within Limit Prediction Limit
Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

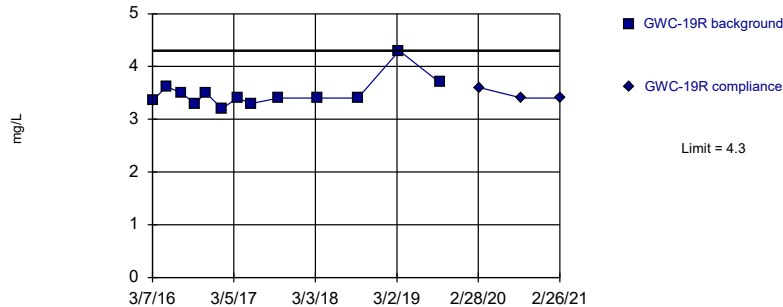
Within Limit Prediction Limit
Intrawell Parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

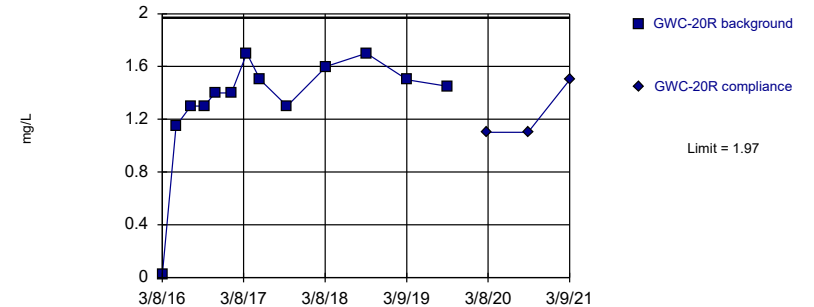
Within Limit Prediction Limit
Intrawell Non-parametric



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 5/11/2021 10:00 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit Prediction Limit
Intrawell Parametric

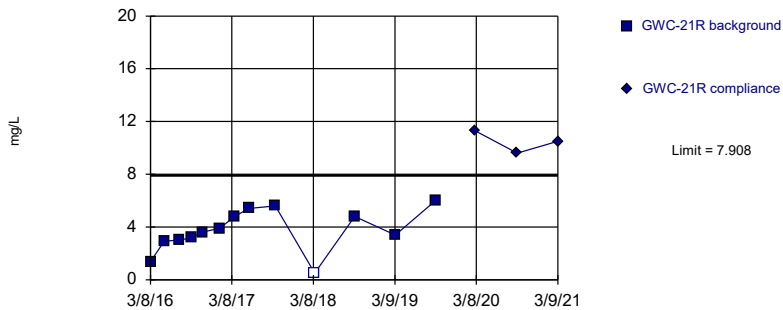


Background Data Summary (based on square transformation): Mean=1.943, Std. Dev.=0.7494, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limit

Prediction Limit Intrawell Parametric

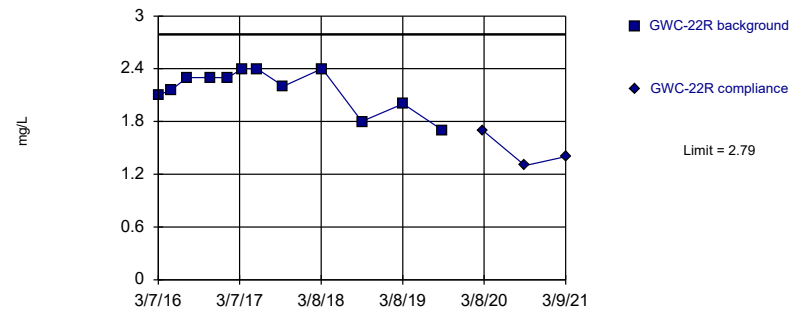


Background Data Summary: Mean=3.733, Std. Dev.=1.614, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9512, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

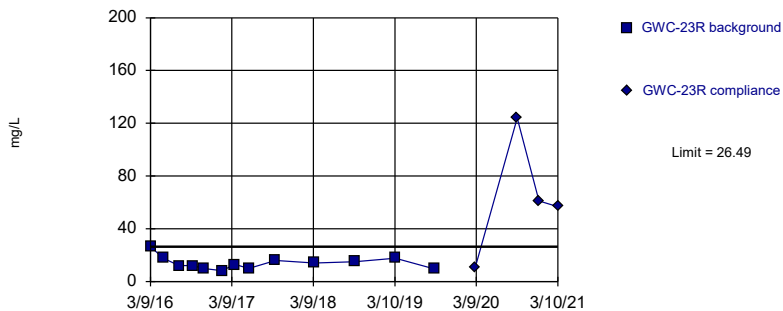


Background Data Summary: Mean=2.172, Std. Dev.=0.2339, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8713, critical = 0.805. Kappa = 2.643 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Exceeds Limit

Prediction Limit Intrawell Parametric

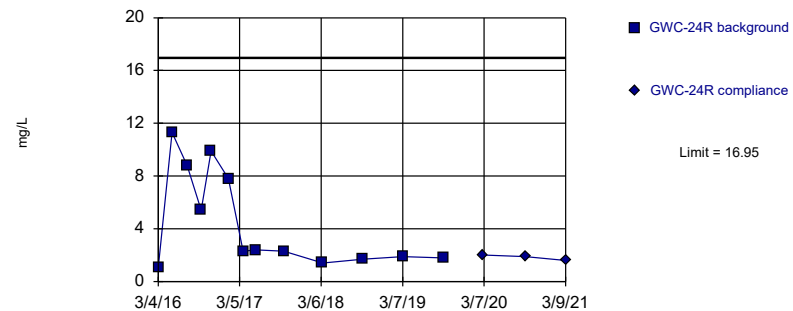


Background Data Summary: Mean=13.96, Std. Dev.=4.844, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.887, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit Intrawell Parametric

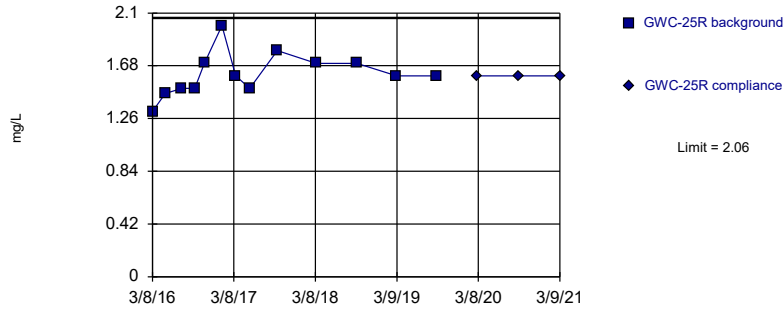


Background Data Summary (based on square root transformation): Mean=1.955, Std. Dev.=0.8353, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8395, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

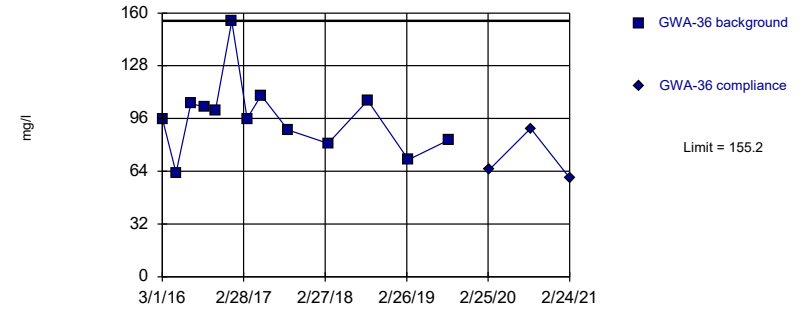


Background Data Summary: Mean=1.614, Std. Dev.=0.1727, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9529, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Sulfate Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

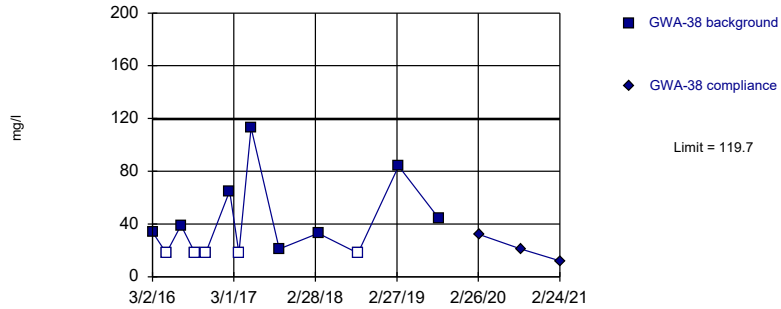
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

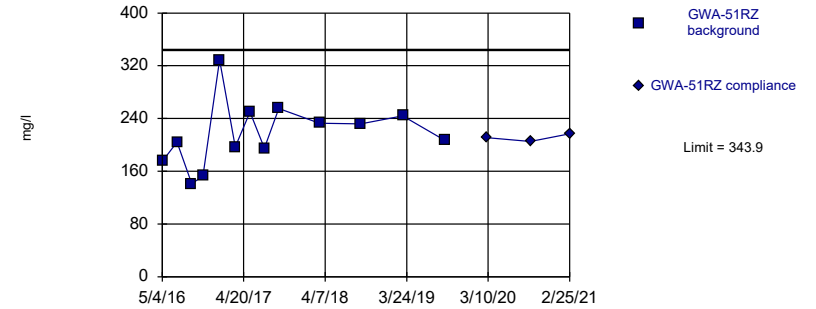


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=6.448, Std. Dev.=1.736, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8299, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

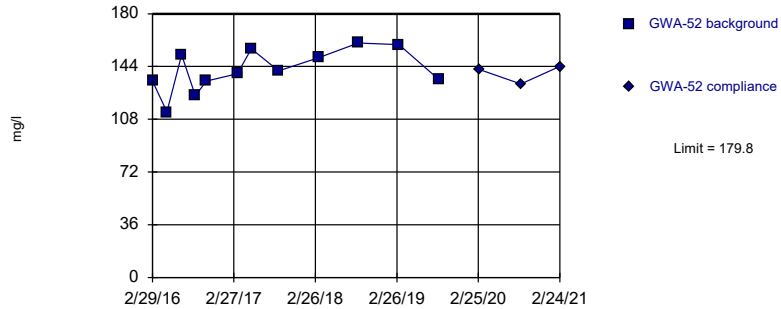


Background Data Summary: Mean=216.5, Std. Dev.=49.22, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9545, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

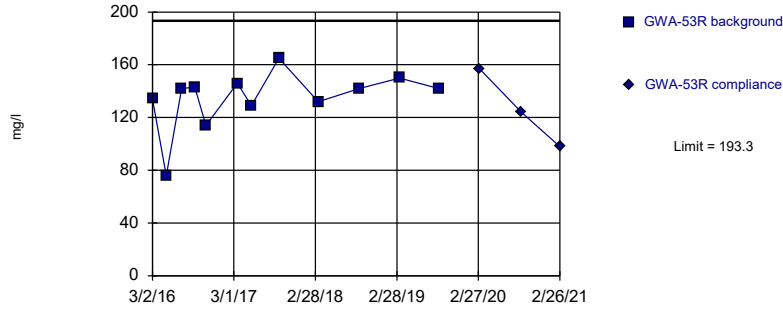
Within Limit

Prediction Limit
Intrawell Parametric



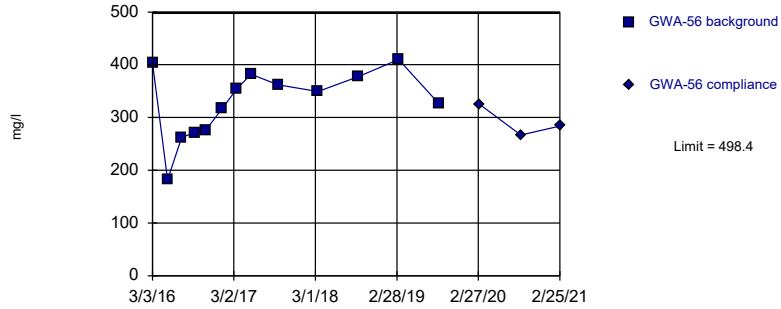
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

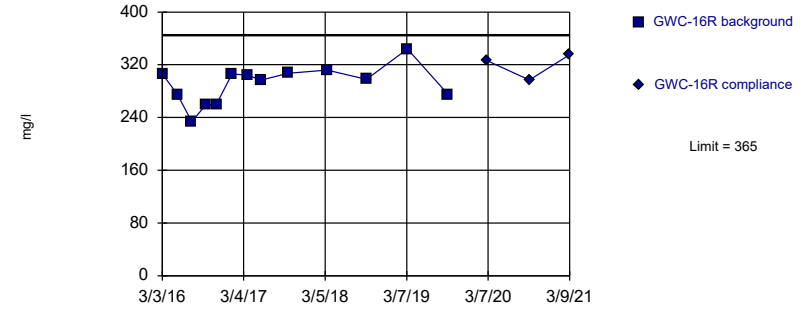


Background Data Summary: Mean=328.7, Std. Dev.=65.59, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.932, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

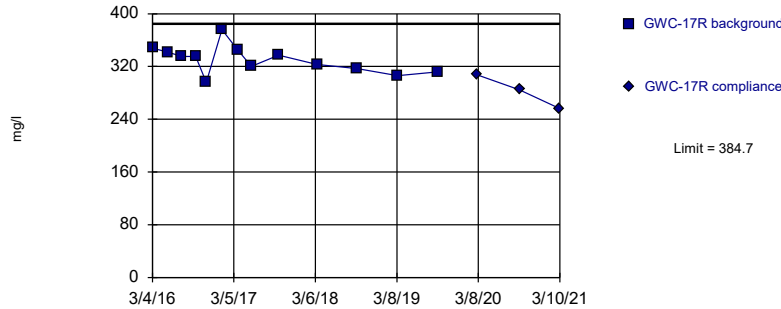


Background Data Summary: Mean=290.5, Std. Dev.=28.8, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

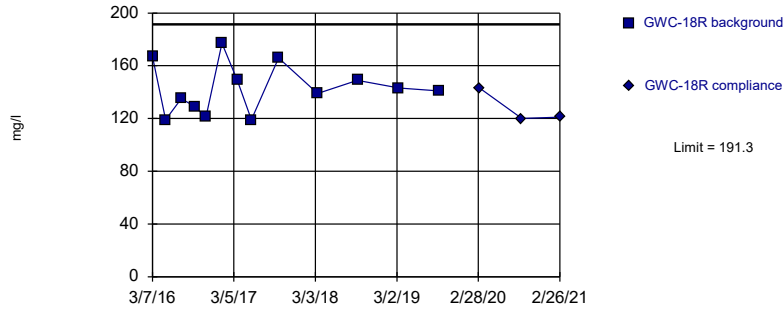
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

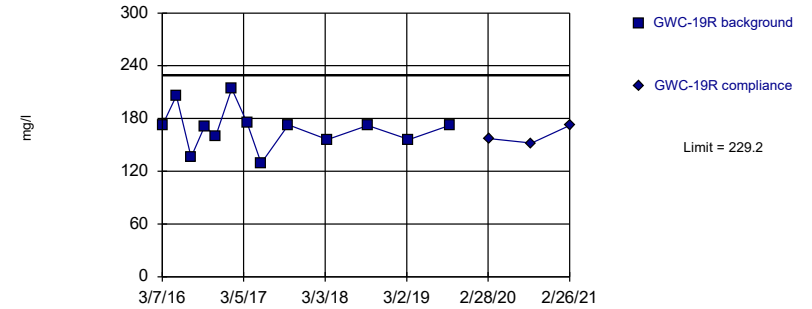


Background Data Summary: Mean=142.6, Std. Dev.=18.81, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

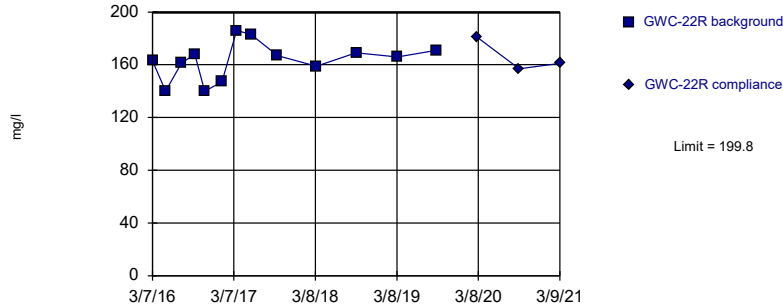
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

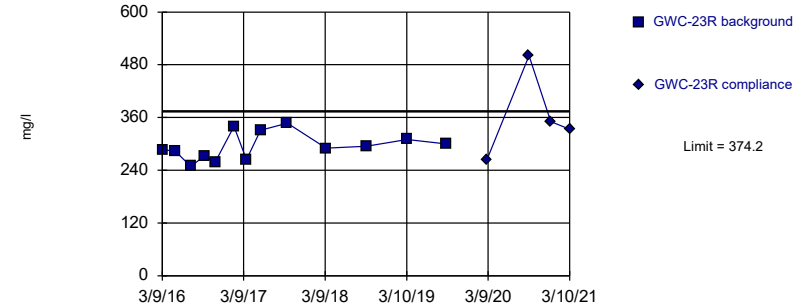


Background Data Summary: Mean=163.1, Std. Dev.=14.18, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9323, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Parametric

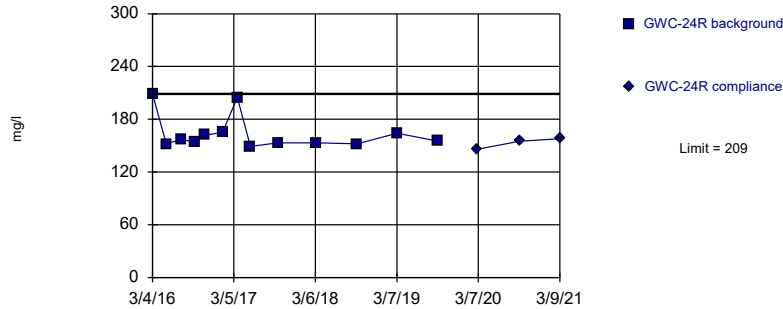


Background Data Summary: Mean=294.5, Std. Dev.=30.84, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.956, critical = 0.814. Kappa = 2.587 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006839.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

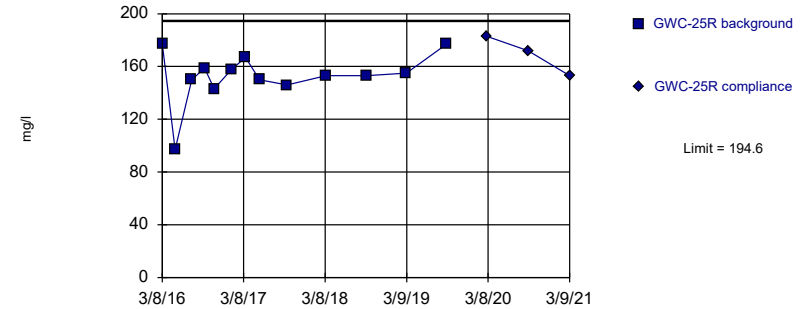


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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 5/11/2021 10:01 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		1.9
2/24/2021		2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		2.9
3/26/2021		2.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.82 (J)
2/24/2021		0.84 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		2.9
2/24/2021		3.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.6
2/25/2021		2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		1.4
2/24/2021		3.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		2.3
2/26/2021		2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		2.3
2/26/2021		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/8/2020		0.8 (J)
2/25/2021		0.78 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		3
2/25/2021		6.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		2.5
2/25/2021		4.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		4.1
2/25/2021		4.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/9/2020		1 (J)
3/9/2021		1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		4.3
3/10/2021		4.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.1
2/26/2021		2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.3
2/26/2021		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.4
2/26/2021		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		1.5
3/9/2021		1.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		4.1
3/9/2021		5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		2.6
3/9/2021		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2
3/10/2021		1.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.5
3/9/2021		2.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		2.5
3/9/2021		2.3

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		6.81
2/24/2021		6.69

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		7.1
3/26/2021		7.11

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		5.17
2/24/2021		5.49

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		5.32
2/24/2021		5.23

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.59
2/25/2021		7.43

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		7.67
2/24/2021		7.53

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		7.67
2/26/2021		7.7

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		7.68
2/26/2021		7.72

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		7.56
2/25/2021		7.55

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		7.24
2/25/2021		7.05

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		7.64
2/25/2021		7.27

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		7.82
2/25/2021		7.85

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.08
3/9/2021		7.34

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.24
3/10/2021		7.27

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		6.63
2/26/2021		7.07

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.81
2/26/2021		7.81

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.67
2/26/2021		7.73

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		7.57
3/9/2021		7.81

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		7.07
3/9/2021		6.98

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		7.19
3/9/2021		7.35

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.12
12/15/2020		7.39
3/10/2021		7.41

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		7.22
3/9/2021		7.8

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		7.62
3/9/2021		8.07

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		0.65 (J)
2/24/2021		0.51 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		1.3
3/26/2021		5.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		<1
2/24/2021		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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)
9/3/2020		0.58 (J)
2/24/2021		0.72 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		21.8
2/25/2021		29.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		3.5
2/24/2021		29.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		1.4
2/26/2021		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		1.4
2/26/2021		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		1.8
2/25/2021		1.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		20.4
2/25/2021		34.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		16.1
2/25/2021		23.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		54.9
2/25/2021		62.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		2.8
3/9/2021		12.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		5.6
3/10/2021		7.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		1.4
2/26/2021		2.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		1.9
2/26/2021		2.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		3.4
2/26/2021		3.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		1.1
3/9/2021		1.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		9.6
3/9/2021		10.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		1.3
3/9/2021		1.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		124
12/15/2020		61.2
3/10/2021		56.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		1.9
3/9/2021		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		1.6
3/9/2021		1.6

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		90
2/24/2021		60

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/14/2020		156
3/26/2021		123

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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)	
1/6/2017	189 (O)	
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
9/3/2020		25
2/24/2021		10

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		21
2/24/2021		12

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		205
2/25/2021		217

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/3/2020		132
2/24/2021		144

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		138
2/26/2021		128

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		124
2/26/2021		98

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		116
2/25/2021		124

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		226
2/25/2021		217

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		180
2/25/2021		194

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Inrawell
Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		267
2/25/2021		284

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Inrawell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		297
3/9/2021		335

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		285
3/10/2021		256

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		88
2/26/2021		90

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Inrawell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		120
2/26/2021		121

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		152
2/26/2021		172

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		212
3/9/2021		163

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		297
3/9/2021		286

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/8/2020		157
3/9/2021		161

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		501
12/15/2020		351
3/10/2021		333

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - IntraWell

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/9/2020		155
3/9/2021		158

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 5/11/2021 10:12 AM View: Appendix III - Intravel

Plant Bowen Client: Southern Company Data: Bowen 3&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
9/4/2020		172
3/9/2021		153

FIGURE F.

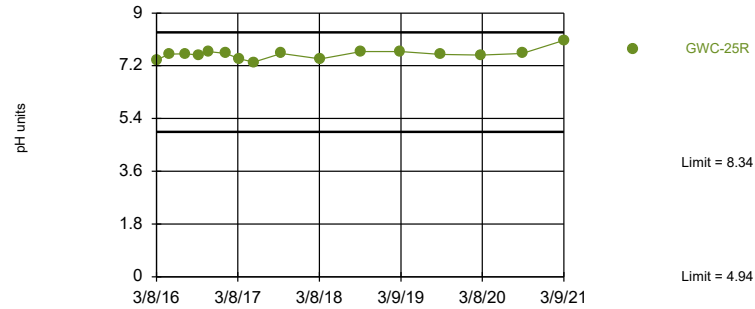
Appendix III Interwell Prediction Limits - Intrawell Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH units)	GWC-25R	8.34	4.94	3/9/2021	8.07	No	194	n/a	n/a	0	n/a	n/a	0.0001051	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21R	132.5	n/a	3/9/2021	10.5	No	192	n/a	n/a	2.604	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-23R	132.5	n/a	3/10/2021	56.8	No	192	n/a	n/a	2.604	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2

Within Limits

Prediction Limit
Interwell Non-parametric



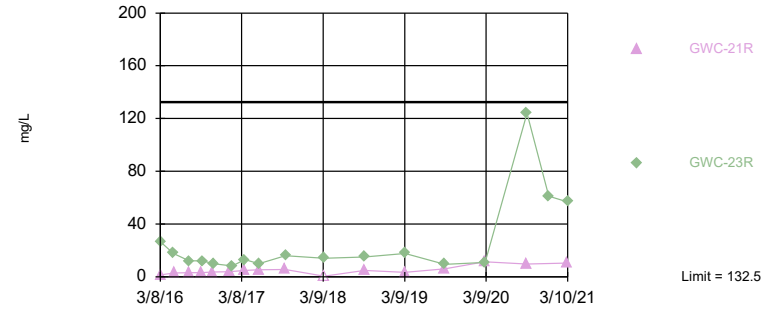
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 194 background values. Annual per-constituent alpha = 0.002311. Individual comparison alpha = 0.0001051 (1 of 2). Assumes 10 future values.

Constituent: pH Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intravel Exceedances
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 192 background values. 2.604% NDs. Annual per-constituent alpha = 0.00118. Individual comparison alpha = 0.00005368 (1 of 2). Comparing 2 points to limit. Assumes 9 future values.

Constituent: Sulfate Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intravel Exceedances
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intrawell Exceedances

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-55 (bg)	GWA-54 (bg)
2/29/2016	7.52								
3/1/2016		7.07	7.45	5.94 (D)					
3/2/2016					7.77 (D)	7.76	5.65	7.01	7.51
3/3/2016									
3/8/2016									
5/2/2016		7	7.31						
5/3/2016				5.85	7.76	7.8	5.72	7.26	
5/4/2016	7.59								7.68
5/9/2016									
7/6/2016			7.4						
7/7/2016		7.15					5.68		
7/8/2016	7.61			5.74	7.82				7.7
7/11/2016						7.82		7.45	
7/18/2016									
9/7/2016		7.2	7.32	5.79		7.83			
9/8/2016	7.52				7.73		5.42		7.71
9/9/2016								7.55	
9/13/2016									
10/25/2016		7.12	7.4	5.88			5.41		
10/26/2016	7.67				7.71			7.55	7.6
10/27/2016							7.84		
1/5/2017		7.05	7.29						
1/6/2017	7.49			5.82		7.63			
1/9/2017					7.52			7.62	7.81
1/13/2017									
2/9/2017							4.99		
3/14/2017			7.48	5.8					
3/15/2017	7.55	6.84							7.74
3/16/2017					7.84	7.8		7.4	
3/23/2017							4.94		
5/16/2017			7.38	5.02					
5/17/2017	7.55	6.78					5.18		
5/18/2017								7.24	7.39
5/19/2017					7.72	7.81			
7/18/2017									
7/19/2017									
9/15/2017	7.48	6.7	7.35	5.68				7.38	7.61
9/18/2017									
9/19/2017					7.68	7.84	5.53		
1/9/2018									
3/12/2018		6.6	7.26	5.72				7	
3/13/2018	7.34				7.74	7.8	5.57		7.39
9/6/2018	7.5	6.83	7.21	5.59			5.69		7.66
9/7/2018								7.45	
9/11/2018					7.64	7.76			
3/6/2019		6.64		5.38					
3/7/2019	7.29		7.48				5.54		7.55
3/8/2019					7.73			7.14	
3/12/2019						7.7			
9/4/2019	7.43	6.85	7.14	5.09			5.91 (D)		
9/5/2019					7.57	7.68		7.26	7.54
3/2/2020	7.44	6.58	7.24	5.52			5.49		

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intrawell Exceedances
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-37 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-38 (bg)	GWA-55 (bg)	GWA-54 (bg)
3/3/2020								6.95	7.59
3/4/2020					7.63	7.72			
9/3/2020	7.67	6.81		5.17			5.32		
9/4/2020								7.24	
9/8/2020					7.67	7.68			7.56
9/9/2020									
9/14/2020			7.1						
2/24/2021	7.53	6.69		5.49			5.23		
2/25/2021								7.05	7.55
2/26/2021					7.7	7.72			
3/9/2021									
3/26/2021			7.11						

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intrawell Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-25R	GWA-51RZ (bg)
2/29/2016				
3/1/2016				
3/2/2016				
3/3/2016	7.44	7.95 (D)		
3/8/2016			7.4	
5/2/2016				
5/3/2016	7.64			
5/4/2016			7.6	7.52 (D)
5/9/2016		7.66		
7/6/2016				
7/7/2016				7.42 (D)
7/8/2016				
7/11/2016	7.72	7.86		
7/18/2016			7.61	
9/7/2016				
9/8/2016				7.4 (D)
9/9/2016	7.66	7.89		
9/13/2016			7.56	
10/25/2016				
10/26/2016		7.98		7.59 (D)
10/27/2016	7.75		7.69	
1/5/2017				
1/6/2017				7.51 (D)
1/9/2017	7.83	7.9		
1/13/2017			7.62	
2/9/2017				
3/14/2017				
3/15/2017		8		7.51 (D)
3/16/2017	7.78		7.43	
3/23/2017				
5/16/2017				
5/17/2017				
5/18/2017	7.64	8.21		7.64 (D)
5/19/2017			7.32	
7/18/2017				7.58
7/19/2017				7.58 (D)
9/15/2017		8.34		
9/18/2017	7.66			
9/19/2017			7.62	7.37 (D)
1/9/2018		8.1 (Y)		
3/12/2018	7.11			
3/13/2018		8.03	7.43	7.62
9/6/2018				
9/7/2018	7.6	8.14		7.36
9/11/2018			7.69	
3/6/2019				
3/7/2019	7.22	8.05		
3/8/2019			7.69	7.55
3/12/2019				
9/4/2019		7.79		7.39
9/5/2019	7.53		7.59	
3/2/2020				

Prediction Limit

Constituent: pH (pH units) Analysis Run 5/11/2021 11:06 AM View: Appendix III - Intrawell Exceedances
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-25R	GWA-51RZ (bg)
3/3/2020			7.56	7.73
3/4/2020	7.27	7.95		
9/3/2020				
9/4/2020	7.64	7.82	7.62	
9/8/2020				
9/9/2020				7.59
9/14/2020				
2/24/2021				
2/25/2021	7.27	7.85		7.43
2/26/2021				
3/9/2021			8.07	
3/26/2021				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 11:06 AM View: Appendix III - IntraWell Exceedances

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-38 (bg)	GWA-53R (bg)
2/29/2016	5.7396								
3/1/2016		2.5655	0.9427 (J)	6.8929					
3/2/2016					32.178	7.1892	1.799	2.5669	2.0407
3/3/2016									
3/8/2016									
3/9/2016									
5/2/2016		1.64		1.6					
5/3/2016			0.87 (J)		39.2		1.94	1.83	1.86
5/4/2016	6.87					7.22			
5/6/2016									
5/9/2016									
7/6/2016				1.7					
7/7/2016		1.7						1.8	
7/8/2016	8.1		0.79 (J)			6.7	2		
7/11/2016					16				2
7/15/2016									
9/7/2016		1.8	0.85 (J)	1.5					1.9
9/8/2016	6.6					7	1.9	0.97 (J)	
9/9/2016					9.7				
9/14/2016									
10/25/2016		1.4	0.74 (J)	1.8				1.2	
10/26/2016	4.7				9.2	6.4	2.1		
10/27/2016									2.1
11/1/2016									
1/5/2017		1.9 (J)		4.6					
1/6/2017	4.8		0.64 (J)						2
1/9/2017					9.3	5.9	1.9		
1/12/2017									
1/25/2017									
2/9/2017								0.31 (J)	
3/14/2017			0.77 (J)	2.8					
3/15/2017	3.9	1.2				6.2			
3/16/2017					6.9		2		1.9
3/21/2017									
3/22/2017									
3/23/2017								0.54 (J)	
5/16/2017			0.48 (J)	2.1					
5/17/2017	5.2	1.2						0.66 (J)	
5/18/2017					7.9	6.1			
5/19/2017							2		1.9
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	4.4	1	0.76 (J)	3	17	5.8			
9/18/2017									
9/19/2017							2	2	2.1
9/21/2017									
3/12/2018		0.77 (J)	0.42 (J)	8.2	28.7				
3/13/2018	8.5					4.9	1.9	1.5	1.9
3/14/2018									
9/6/2018	7.2	0.8 (J)	0.37 (J)	1.5		3.5		1.4	
9/7/2018					27.4				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 11:06 AM View: Appendix III - IntraWell Exceedances
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-55 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-38 (bg)	GWA-53R (bg)
9/10/2018									
9/11/2018							1.9		1.8
3/6/2019		0.45 (J)	0.46 (J)						
3/7/2019	12.7			4.3		2.6		1.1	
3/8/2019					31.8		1.8		
3/11/2019									
3/12/2019									2.2
9/4/2019	4.2	0.68 (J)	<1	1.8				0.83 (J)	
9/5/2019					21.5	2.4	1.5		1.5
9/6/2019									
3/2/2020	16.3	<1	<1	7.9				0.5 (J)	
3/3/2020					29	1.7			
3/4/2020							1.5		1.7
3/5/2020									
9/3/2020	3.5	0.65 (J)	<1					0.58 (J)	
9/4/2020					20.4				
9/8/2020						1.8	1.4		1.4
9/9/2020									
9/14/2020				1.3					
12/15/2020									
2/24/2021	29.2	0.51 (J)	<1					0.72 (J)	
2/25/2021					34.5	1.7			
2/26/2021							1.6		1.6
3/9/2021									
3/10/2021									
3/26/2021				5.4					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 11:06 AM View: Appendix III - IntraWell Exceedances

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWC-21R	GWC-23R	GWA-51RZ (bg)
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016	132.4615	22.316			
3/8/2016			1.3858		
3/9/2016				26.4322	
5/2/2016					
5/3/2016		20.8			
5/4/2016					16.8 (D)
5/6/2016				17.7	
5/9/2016	34.3		2.94		
7/6/2016					
7/7/2016					18 (D)
7/8/2016					
7/11/2016	58	17			
7/15/2016			3	12	
9/7/2016					
9/8/2016					18 (D)
9/9/2016	66	14	3.2		
9/14/2016				12	
10/25/2016					
10/26/2016	76				20 (D)
10/27/2016		15	3.6		
11/1/2016				10	
1/5/2017					
1/6/2017					21 (D)
1/9/2017	85	17			
1/12/2017			3.9		
1/25/2017				8.2	
2/9/2017					
3/14/2017					
3/15/2017	100				17 (D)
3/16/2017		15			
3/21/2017			4.8		
3/22/2017				13	
3/23/2017					
5/16/2017					
5/17/2017					
5/18/2017	87	24			19 (D)
5/19/2017					
5/23/2017			5.4		
5/24/2017				10	
7/19/2017					10 (D)
9/15/2017	110				
9/18/2017		22			
9/19/2017			5.6		22 (D)
9/21/2017				16	
3/12/2018		22			
3/13/2018	94.8				27.3
3/14/2018			<1	14	
9/6/2018					
9/7/2018	101	22.4			26.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 11:06 AM View: Appendix III - IntraWell Exceedances
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-56 (bg)	GWA-55R (bg)	GWC-21R	GWC-23R	GWA-51RZ (bg)
9/10/2018			4.8		
9/11/2018				14.9	
3/6/2019					
3/7/2019	88.7	25			
3/8/2019					23.6
3/11/2019			3.4		
3/12/2019				17.7	
9/4/2019	67.8				22.9
9/5/2019		22.7			
9/6/2019			6	9.5	
3/2/2020					
3/3/2020			11.3		21.5
3/4/2020	69.4	23.4			
3/5/2020				10.8	
9/3/2020					
9/4/2020	54.9	16.1			
9/8/2020			9.6		
9/9/2020				124	21.8
9/14/2020					
12/15/2020				61.2	
2/24/2021					
2/25/2021	62.6	23.2			29.5
2/26/2021					
3/9/2021			10.5		
3/10/2021				56.8	
3/26/2021					

FIGURE G.

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:31 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-16R	49.8	n/a	3/9/2021	76.4	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17R	49.8	n/a	3/10/2021	67.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21R	49.8	n/a	3/9/2021	64.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23R	49.8	n/a	3/10/2021	62.2	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2

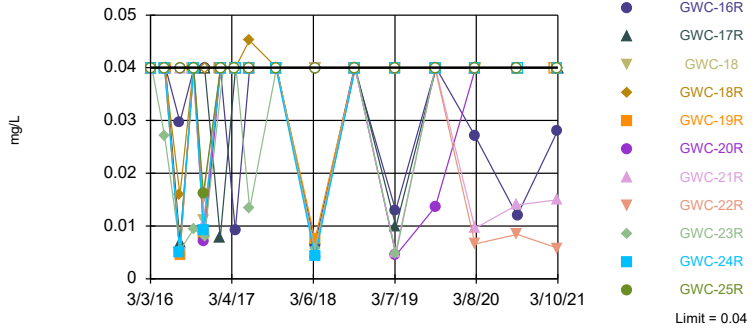
Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 10:31 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-16R	0.04	n/a	3/9/2021	0.028J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-17R	0.04	n/a	3/10/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-18R	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-19R	0.04	n/a	2/26/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-20R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-21R	0.04	n/a	3/9/2021	0.015J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-22R	0.04	n/a	3/9/2021	0.0058J	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-23R	0.04	n/a	3/10/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-24R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Boron (mg/L)	GWC-25R	0.04	n/a	3/9/2021	0.04ND	No	192	n/a	n/a	63.02	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GWC-16R	49.8	n/a	3/9/2021	76.4	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17R	49.8	n/a	3/10/2021	67.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18	49.8	n/a	2/26/2021	25.2	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-18R	49.8	n/a	2/26/2021	31.9	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-19R	49.8	n/a	2/26/2021	33.3	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20R	49.8	n/a	3/9/2021	35.8	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21R	49.8	n/a	3/9/2021	64.1	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-22R	49.8	n/a	3/9/2021	35.7	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-23R	49.8	n/a	3/10/2021	62.2	Yes	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-24R	49.8	n/a	3/9/2021	33.2	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-25R	49.8	n/a	3/9/2021	36.4	No	192	n/a	n/a	0	n/a	n/a	0.00005368	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16R	0.4	n/a	3/9/2021	0.25	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-17R	0.4	n/a	3/10/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-18	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-18R	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-19R	0.4	n/a	2/26/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-20R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-21R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-22R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-23R	0.4	n/a	3/10/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-24R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-25R	0.4	n/a	3/9/2021	0.1ND	No	192	n/a	n/a	57.29	n/a	n/a	0.00005368	NP Inter (NDs) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

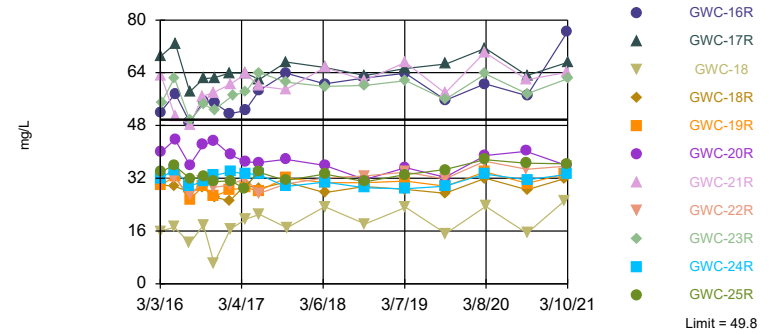


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 192 background values. 63.02% NDs. Annual per-constituent alpha = 0.00118. Individual comparison alpha = 0.00005368 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 5/11/2021 10:29 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

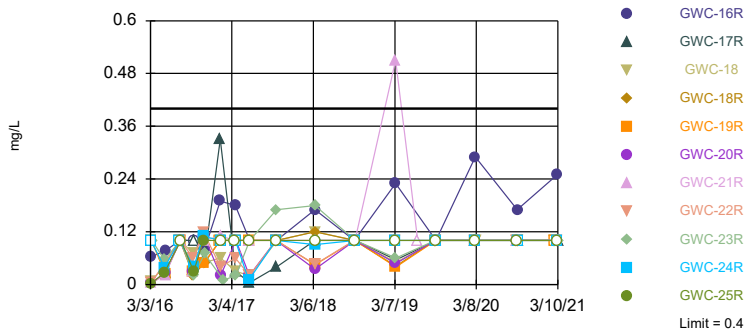


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 192 background values. Annual per-constituent alpha = 0.00118. Individual comparison alpha = 0.00005368 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 5/11/2021 10:29 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 192 background values. 57.29% NDs. Annual per-constituent alpha = 0.00118. Individual comparison alpha = 0.00005368 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 5/11/2021 10:29 AM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-55 (bg)
2/29/2016	<0.04								
3/1/2016		<0.04	<0.04	<0.04					
3/2/2016					<0.04	<0.04	<0.04	<0.04	<0.04
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016			<0.04	<0.04					
5/3/2016		<0.04			<0.04		<0.04	<0.04	<0.04
5/4/2016	<0.04					<0.04			
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016				0.0059 (J)					
7/7/2016			0.0081 (J)		<0.04				
7/8/2016	0.009 (J)	0.0067 (J)				0.0046 (J)	<0.04		
7/11/2016								<0.04	0.0054 (J)
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		0.0084 (J)	<0.04	<0.04				<0.04	
9/8/2016	<0.04				<0.04	0.0081 (J)	<0.04		
9/9/2016									<0.04
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.0089 (J)	0.0071 (J)	0.0077 (J)	<0.04				
10/26/2016	0.0077 (J)					0.0088 (J)	0.0095 (J)		0.0144 (J)
10/27/2016								0.0148 (J)	
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017			<0.04	0.0074 (J)					
1/6/2017	0.0084 (J)	<0.04						<0.04	
1/9/2017						<0.04	<0.04		<0.04
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017					<0.04				
3/14/2017		<0.04		0.0062 (J)					
3/15/2017	<0.04		<0.04			<0.04			
3/16/2017							<0.04	<0.04	<0.04
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-55 (bg)
5/16/2017		<0.04		<0.04					
5/17/2017	<0.04		<0.04		<0.04				
5/18/2017						<0.04			<0.04
5/19/2017							<0.04	<0.04	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.04	<0.04	<0.04	<0.04		<0.04			<0.04
9/18/2017									
9/19/2017					<0.04		<0.04	<0.04	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		0.004 (J)	<0.04	0.0082 (J)					0.0055 (J)
3/13/2018	0.0084 (J)				<0.04	0.0053 (J)	<0.04	<0.04	
3/14/2018									
9/6/2018	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			
9/7/2018									<0.04
9/10/2018									
9/11/2018							<0.04	<0.04	
3/6/2019		<0.04	<0.04						
3/7/2019	<0.04			0.0049 (J)	<0.04	<0.04			
3/8/2019							<0.04		0.0056 (J)
3/11/2019									
3/12/2019								<0.04	
9/4/2019	<0.04	<0.04	<0.04	<0.04	<0.04 (D)				
9/5/2019						<0.04	<0.04	<0.04	<0.04
9/6/2019									
9/9/2019									
9/10/2019									
3/2/2020	0.007 (J)	0.0052 (J)	0.01 (J)	0.014 (J)	<0.04				
3/3/2020						0.0084 (J)			0.01 (J)
3/4/2020							0.0064 (J)	<0.04	
3/5/2020									
3/6/2020									
9/3/2020	<0.04	<0.04	<0.04		<0.04				
9/4/2020									0.0053 (J)
9/8/2020						<0.04	0.0072 (J)	<0.04	
9/9/2020									
9/14/2020				0.0065 (J)					
2/24/2021	0.0099 (J)	<0.04	0.0062 (J)		<0.04				
2/25/2021						<0.04			0.0075 (J)
2/26/2021							<0.04	<0.04	
3/9/2021									
3/10/2021									
3/26/2021				0.019 (J)					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-19R	GWC-18	GWC-22R	GWC-18R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	<0.04	<0.04	<0.04 (D)						
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	0.0047 (J)	0.0128 (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)		0.0045 (J)		0.0047 (J)	
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	<0.04	0.0158 (J)							
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						0.0086 (J)	0.0111 (J)		
11/1/2016				<0.04					<0.04
11/2/2016			<0.04						
1/5/2017									
1/6/2017									
1/9/2017	<0.04	0.0219 (J)							
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 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-25R	GWC-23R	GWA-51RZ (bg)
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	0.0103 (J)		0.0162 (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 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-25R	GWC-23R	GWA-51RZ (bg)
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	0.0053 (J)	<0.04		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 (J)
3/11/2019	0.005 (J)				
3/12/2019		0.0045 (J)		0.0047 (J)	
9/4/2019					0.01 (J)
9/5/2019			<0.04		
9/6/2019	<0.04	0.01365 (D)		<0.04	
9/9/2019					
9/10/2019					
3/2/2020					
3/3/2020	0.0096 (J)		<0.04		0.0096 (J)
3/4/2020					
3/5/2020		<0.04		<0.04	
3/6/2020					
9/3/2020					
9/4/2020		<0.04	<0.04		
9/8/2020	0.014 (J)				
9/9/2020				<0.04	0.0054 (J)
9/14/2020					
2/24/2021					
2/25/2021					0.0052 (J)
2/26/2021					
3/9/2021	0.015 (J)	<0.04	<0.04		
3/10/2021				<0.04	
3/26/2021					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-55 (bg)
2/29/2016	30								
3/1/2016		0.98	20	32					
3/2/2016					2	27	29	29	38
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016			19.6	30					
5/3/2016		1.12			2.68		31.2	31	48.7
5/4/2016	30					27.6			
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016				29.2					
7/7/2016			19.3		2.21				
7/8/2016	30.1	1				25.7	30		
7/11/2016								28.2	34.8
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		0.858	19.9	28.4				27.6	
9/8/2016	26.8				1.8	26.3	28.6		
9/9/2016									32.1
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		0.859	19.3	30.8	1.15				
10/26/2016	26.9					24	25.5		32.9
10/27/2016								26.5	
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017			21	32.6					
1/6/2017	27.6	1						26	
1/9/2017						24.1	26.1		32.5
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017					0.495 (J)				
3/14/2017		0.844		29.1					
3/15/2017	26.2		13.4			24.1			
3/16/2017							26.7	26.6	30.8
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017					0.543				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-37 (bg)	GWA-36 (bg)	GWA-36R (bg)	GWA-38 (bg)	GWA-54 (bg)	GWA-53 (bg)	GWA-53R (bg)	GWA-55 (bg)
5/16/2017		0.922		28.5					
5/17/2017	27.6		16.8		0.889				
5/18/2017						26.7			37.2
5/19/2017							29.2	30.9	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	27.7	0.85	13.9	29.1		25.1			38.5
9/18/2017									
9/19/2017					1.28		26.9	28.5	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		0.81	11.8 (J)	30.6					39.6
3/13/2018	26.2				1.4	24.3 (J)	28.6	29.3	
3/14/2018									
9/6/2018	27.9	0.79	13.5 (J)	26.1	1.6	25.6			
9/7/2018									45.2
9/10/2018									
9/11/2018							27.3	26.3	
3/6/2019		0.78	11.2 (J)						
3/7/2019	29.5			28	2.6	23.8 (J)			
3/8/2019							25.9		45.2
3/11/2019									
3/12/2019								28	
9/4/2019	28.1	0.76	13.3	27.9	1.65 (D)				
9/5/2019						24.6	29.3	29	46.2
9/6/2019									
9/9/2019									
9/10/2019									
3/2/2020	33.7	0.77 (J)	12.5	35.2	2.5				
3/3/2020						27.1			40.1
3/4/2020							31.2	31.6	
3/5/2020									
3/6/2020									
9/3/2020	28.9	0.73 (J)	15.7		1				
9/4/2020									47.2
9/8/2020						24.5	28.5	29.4	
9/9/2020									
9/14/2020				32.4					
2/24/2021	37.1	0.71 (J)	13.6		1.2				
2/25/2021						25.3			48.5
2/26/2021							29.6	31.1	
3/9/2021									
3/10/2021									
3/26/2021				30.1					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-17R	GWC-24R	GWC-19R	GWC-18	GWC-22R	GWC-18R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	36	36	52 (D)						
3/4/2016				69	32				
3/7/2016						30	16	32	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	31.6	35.7							
7/12/2016					29.6				
7/13/2016			49				12.3		27.8
7/14/2016				58.2		25.6		26.8	
7/15/2016									
7/18/2016									
9/7/2016									
9/8/2016									
9/9/2016	29.8	32							
9/12/2016						29.6		31.1	29.1
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						26.5	6.22		
11/1/2016				62.5					26.2
11/2/2016			54.8						
1/5/2017									
1/6/2017									
1/9/2017	27.9	27.5							
1/11/2017			51.6	63.9		28.5			25.2
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 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-25R	GWC-23R	GWA-51RZ (bg)
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					
3/7/2016					
3/8/2016	63	40	34		
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	50.8	43.8			
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	57.9		30.9		
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	60.5	39.1			
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 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-25R	GWC-23R	GWA-51RZ (bg)
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	58.9	37.7	31.3		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	65.6	35.9		59.9	
9/6/2018					
9/7/2018					44.2
9/10/2018	61.7	31.6			
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	57.8	32.35 (D)		55.9	
9/9/2019					
9/10/2019					
3/2/2020					
3/3/2020	70.2		37.6		47.6
3/4/2020					
3/5/2020		38.9		63.7	
3/6/2020					
9/3/2020					
9/4/2020		40.2	36.6		
9/8/2020	61.9				
9/9/2020				57.6	44.1
9/14/2020					
2/24/2021					
2/25/2021					49.8
2/26/2021					
3/9/2021	64.1	35.8	36.4		
3/10/2021				62.2	
3/26/2021					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-38 (bg)	GWA-53R (bg)	GWA-54 (bg)
2/29/2016	0.0375 (J)								
3/1/2016		0.0153 (J)	0.0215 (J)	0.0172 (J)					
3/2/2016					0.0202 (J)	0.0293 (J)	0.0121 (J)	0.0238 (J)	0.0427 (J)
3/3/2016									
3/4/2016									
3/7/2016									
3/8/2016									
3/9/2016									
5/2/2016		0.018 (J)		0.018 (J)					
5/3/2016			0.023 (J)		0.025 (J)	0.049 (J)	0.013 (J)	0.027 (J)	
5/4/2016	0.04 (J)								0.048 (J)
5/5/2016									
5/6/2016									
5/9/2016									
5/10/2016									
7/6/2016				0.02 (J)					
7/7/2016		<0.1					<0.1		
7/8/2016	0.11 (J)		0.02 (J)		0.09 (J)				0.12 (J)
7/11/2016						<0.1		<0.1	
7/12/2016									
7/13/2016									
7/14/2016									
7/15/2016									
7/18/2016									
9/7/2016		<0.1	<0.1	<0.1				<0.1	
9/8/2016	<0.1				<0.1		<0.1		<0.1
9/9/2016						0.05 (J)			
9/12/2016									
9/13/2016									
9/14/2016									
9/15/2016									
10/25/2016		<0.1	0.04 (J)	0.03 (J)			0.03 (J)		
10/26/2016	0.04 (J)				0.04 (J)	0.08 (J)			0.11 (J)
10/27/2016								0.1 (J)	
10/31/2016									
11/1/2016									
11/2/2016									
1/5/2017		<0.1		0.03 (J)					
1/6/2017	0.04 (J)		<0.1					0.02 (J)	
1/9/2017					0.02 (J)	0.05 (J)			0.04 (J)
1/11/2017									
1/12/2017									
1/13/2017									
1/25/2017									
2/9/2017							<0.1		
3/14/2017			<0.1	<0.1					
3/15/2017	<0.1	<0.1							0.009 (J)
3/16/2017					<0.1	0.07 (J)		0.04 (J)	
3/20/2017									
3/21/2017									
3/22/2017									
3/23/2017							<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-52 (bg)	GWA-36 (bg)	GWA-37 (bg)	GWA-36R (bg)	GWA-53 (bg)	GWA-55 (bg)	GWA-38 (bg)	GWA-53R (bg)	GWA-54 (bg)
5/16/2017			<0.1	<0.1					
5/17/2017	0.01 (J)	<0.1					<0.1		
5/18/2017						<0.1			0.02 (J)
5/19/2017					<0.1			0.004 (J)	
5/22/2017									
5/23/2017									
5/24/2017									
7/19/2017									
9/15/2017	<0.1	<0.1	<0.1	<0.1		<0.1			0.03 (J)
9/18/2017									
9/19/2017					<0.1		<0.1	<0.1	
9/20/2017									
9/21/2017									
9/22/2017									
9/25/2017									
3/12/2018		<0.1	<0.1	<0.1		<0.1			
3/13/2018	0.084 (J)				<0.1		<0.1	0.032 (J)	0.054 (J)
3/14/2018									
9/6/2018	<0.1	<0.1	<0.1	<0.1			<0.1		<0.1
9/7/2018						<0.1			
9/10/2018									
9/11/2018					<0.1			<0.1	
3/6/2019		<0.1	<0.1						
3/7/2019	<0.1			<0.1			<0.1		<0.1
3/8/2019					<0.1	<0.1			
3/11/2019									
3/12/2019								0.046 (J)	
6/18/2019									
9/4/2019	<0.1	<0.1	<0.1	<0.1			<0.1 (D)		
9/5/2019					<0.1	<0.1		<0.1	<0.1
9/6/2019									
9/9/2019									
9/10/2019									
3/2/2020	<0.1	<0.1	<0.1	<0.1			<0.1		
3/3/2020						<0.1			<0.1
3/4/2020					<0.1			<0.1	
3/5/2020									
3/6/2020									
9/3/2020	<0.1	<0.1	<0.1				<0.1		
9/4/2020						<0.1			
9/8/2020					<0.1			<0.1	<0.1
9/9/2020									
9/14/2020				<0.1					
2/24/2021	<0.1	<0.1	<0.1				<0.1		
2/25/2021						<0.1			<0.1
2/26/2021					<0.1			<0.1	
3/9/2021									
3/10/2021									
3/26/2021				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWA-55R (bg)	GWA-56 (bg)	GWC-16R	GWC-24R	GWC-22R	GWC-19R	GWC-18	GWC-18R	GWC-25R
2/29/2016									
3/1/2016									
3/2/2016									
3/3/2016	0.0392 (J)	0.1143 (J)	0.06259 (JD)						
3/4/2016				<0.1					
3/7/2016					0.00526 (J)	<0.1	0.00623 (J)	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	<0.1	<0.1							
7/12/2016				<0.1					
7/13/2016			<0.1				<0.1	<0.1	
7/14/2016					<0.1	<0.1			
7/15/2016									
7/18/2016									<0.1
9/7/2016									
9/8/2016									
9/9/2016	0.02 (J)	0.1 (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			<0.1						
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	0.06 (J)	0.26 (J)							
1/11/2017			0.19 (J)			<0.1		<0.1	
1/12/2017							0.06 (J)		
1/13/2017				<0.1	0.04 (J)				<0.1
1/25/2017									
2/9/2017									
3/14/2017									
3/15/2017		0.19 (J)							
3/16/2017	0.08 (J)								<0.1
3/20/2017			0.18 (J)	<0.1	0.06 (J)			<0.1	
3/21/2017						<0.1			
3/22/2017									
3/23/2017							0.03 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51RZ (bg)	GWC-17R
2/29/2016					
3/1/2016					
3/2/2016					
3/3/2016					
3/4/2016					2.1421 (O)
3/7/2016					
3/8/2016	0.00287 (J)	0.00425 (J)			
3/9/2016			<0.1		
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		<0.1			<0.1
7/15/2016	<0.1		<0.1		
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)		<0.1
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	<0.1				0.03 (J)
3/22/2017		0.1 (J)	0.02 (J)		
3/23/2017					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 10:31 AM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

	GWC-21R	GWC-20R	GWC-23R	GWA-51RZ (bg)	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	<0.1				0.004 (J)
5/24/2017			<0.1		
7/19/2017				0.12 (JD)	
9/15/2017					
9/18/2017					
9/19/2017	<0.1	<0.1		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	<0.1	0.035 (J)	0.18 (J)		<0.1
9/6/2018					
9/7/2018				<0.1	
9/10/2018	<0.1	<0.1			
9/11/2018			<0.1		<0.1
3/6/2019					
3/7/2019					
3/8/2019				0.075 (J)	
3/11/2019	0.51				
3/12/2019		0.048 (J)	0.06 (J)		0.056 (J)
6/18/2019	<0.1				
9/4/2019				<0.1	
9/5/2019					
9/6/2019	<0.1	<0.1 (D)	<0.1		
9/9/2019					
9/10/2019					<0.1
3/2/2020					
3/3/2020	<0.1			<0.1	
3/4/2020					
3/5/2020		<0.1	<0.1		<0.1
3/6/2020					
9/3/2020					
9/4/2020		<0.1			
9/8/2020	<0.1				
9/9/2020			<0.1	<0.1	<0.1
9/14/2020					
2/24/2021					
2/25/2021				<0.1	
2/26/2021					
3/9/2021	<0.1	<0.1			
3/10/2021			<0.1		<0.1
3/26/2021					

FIGURE H.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:03 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>
Calcium (mg/L)	GWA-36 (bg)	-1.723	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-37 (bg)	-0.04779	-97	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1337	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-37 (bg)	-0.09037	-73	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-38 (bg)	0.1267	61	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1696	-84	-58	Yes	16	6.25	n/a	n/a	0.01	NP
pH (pH units)	GWA-36 (bg)	-0.09936	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36R (bg)	-0.05452	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-37 (bg)	-0.1135	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.3578	-91	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.08982	-66	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.762	61	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.28	-109	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21R	1.595	81	58	Yes	16	6.25	n/a	n/a	0.01	NP

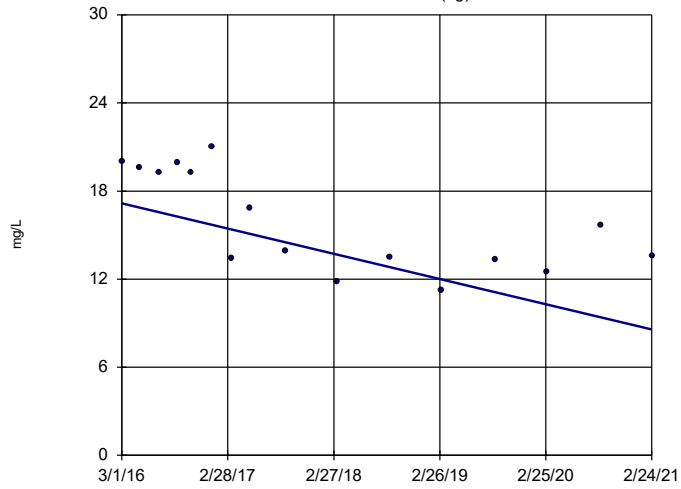
Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR Printed 5/11/2021, 11:03 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-36 (bg)	-1.723	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-36R (bg)	-0.1593	-11	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-37 (bg)	-0.04779	-97	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-38 (bg)	-0.04857	-8	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-51RZ (bg)	1.874	53	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-52 (bg)	0.412	29	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-53 (bg)	0.09564	6	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-53R (bg)	0.2744	27	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-54 (bg)	-0.2124	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-55 (bg)	2.888	57	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-55R (bg)	1.632	36	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-56 (bg)	-0.4786	-9	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-16R	2.861	58	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-17R	0.748	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-21R	2.067	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-23R	1.695	42	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36 (bg)	-0.07484	-48	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-36R (bg)	-0.1337	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-37 (bg)	-0.09037	-73	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-38 (bg)	0.1267	61	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-51RZ (bg)	-0.05507	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-52 (bg)	0.0002948	5	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-53 (bg)	-0.04978	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-53R (bg)	-0.05672	-43	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-54 (bg)	-0.1696	-84	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-55 (bg)	0.02954	20	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-55R (bg)	0.103	32	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-56 (bg)	-0.3201	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36 (bg)	-0.09936	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-36R (bg)	-0.05452	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-37 (bg)	-0.1135	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-38 (bg)	-0.03969	-14	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-51RZ (bg)	0.004947	9	63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-52 (bg)	-0.02575	-31	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-53 (bg)	-0.02837	-49	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-53R (bg)	-0.0242	-41	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-54 (bg)	-0.02427	-28	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-55 (bg)	-0.05599	-38	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-55R (bg)	-0.05379	-37	-58	No	16	0	n/a	n/a	0.01	NP
pH (pH units)	GWA-56 (bg)	0.02746	11	63	No	17	0	n/a	n/a	0.01	NP
pH (pH units)	GWC-25R	0.03098	32	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36 (bg)	-0.3578	-91	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-36R (bg)	0.3617	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-37 (bg)	-0.08982	-66	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-38 (bg)	-0.2533	-46	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-51RZ (bg)	1.762	61	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-52 (bg)	0.7285	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-53 (bg)	-0.09987	-53	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-53R (bg)	-0.08567	-48	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-54 (bg)	-1.28	-109	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-55 (bg)	2.12	20	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-55R (bg)	0.6075	41	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-56 (bg)	-1.364	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-21R	1.595	81	58	Yes	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-23R	1.637	27	63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-36 (bg)

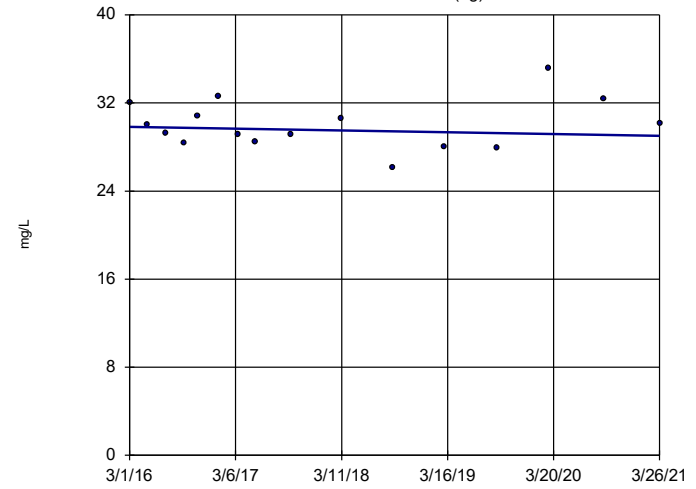


n = 16
 Slope = -1.723
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/11/2021 10:32 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-36R (bg)

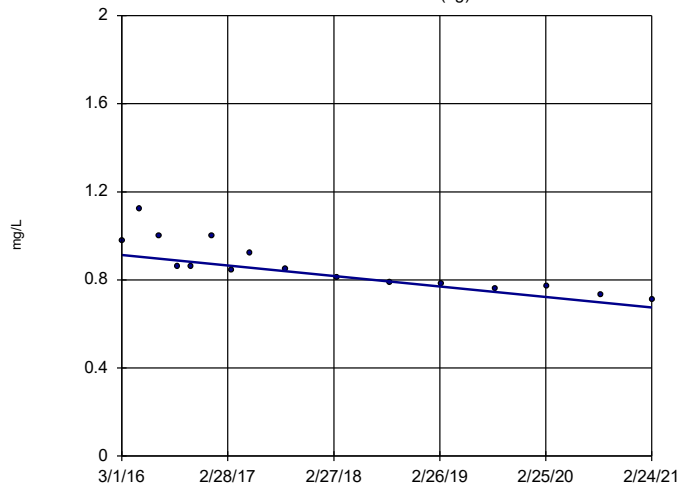


n = 16
 Slope = -0.1593
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/11/2021 10:32 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-37 (bg)

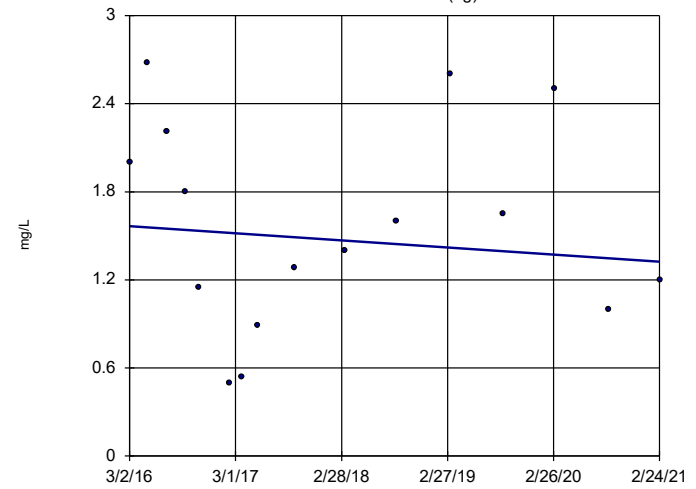


n = 16
 Slope = -0.04779
 units per year.
 Mann-Kendall
 statistic = -97
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/11/2021 10:32 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-38 (bg)

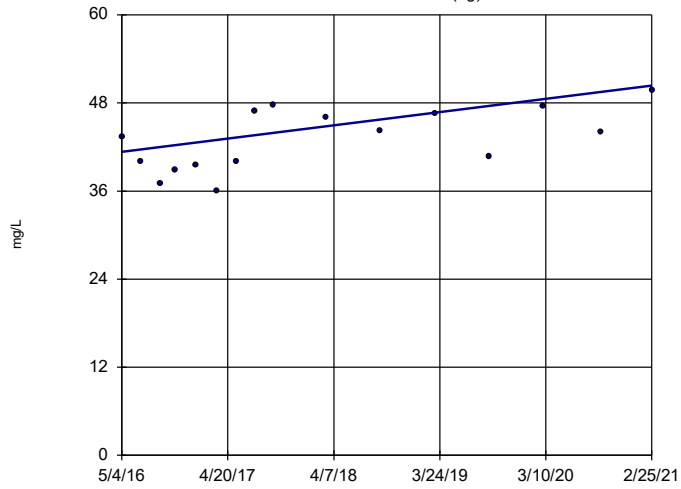


n = 16
 Slope = -0.04857
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/11/2021 10:32 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-51RZ (bg)

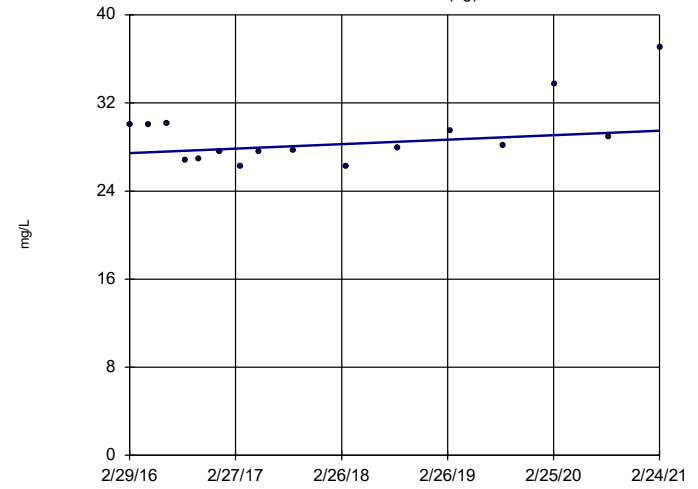


n = 16
Slope = 1.874
units per year.
Mann-Kendall
statistic = 53
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/11/2021 10:32 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-52 (bg)

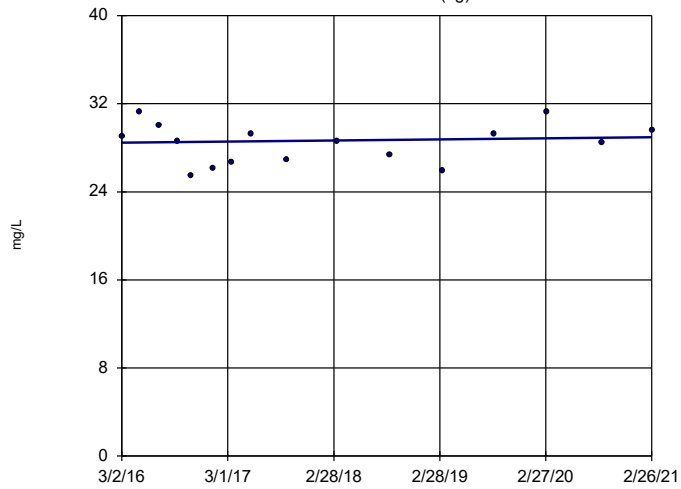


n = 16
Slope = 0.412
units per year.
Mann-Kendall
statistic = 29
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-53 (bg)

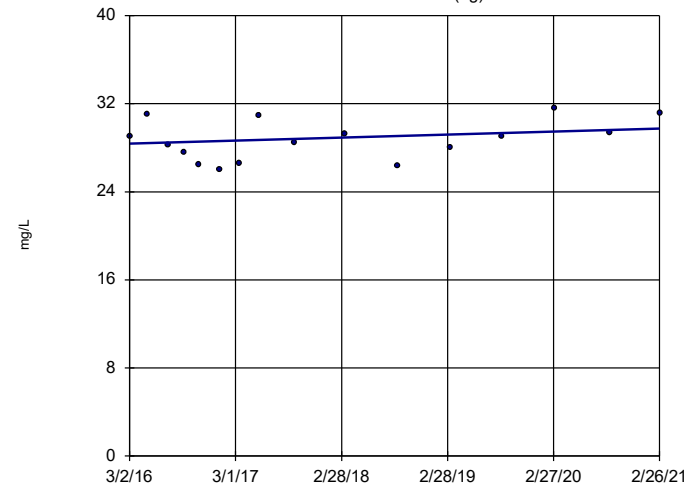


n = 16
Slope = 0.09564
units per year.
Mann-Kendall
statistic = 6
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-53R (bg)

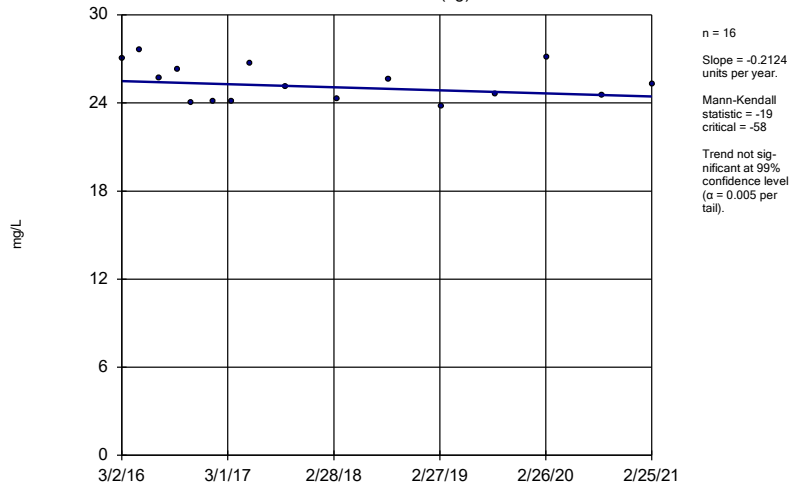


n = 16
Slope = 0.2744
units per year.
Mann-Kendall
statistic = 27
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

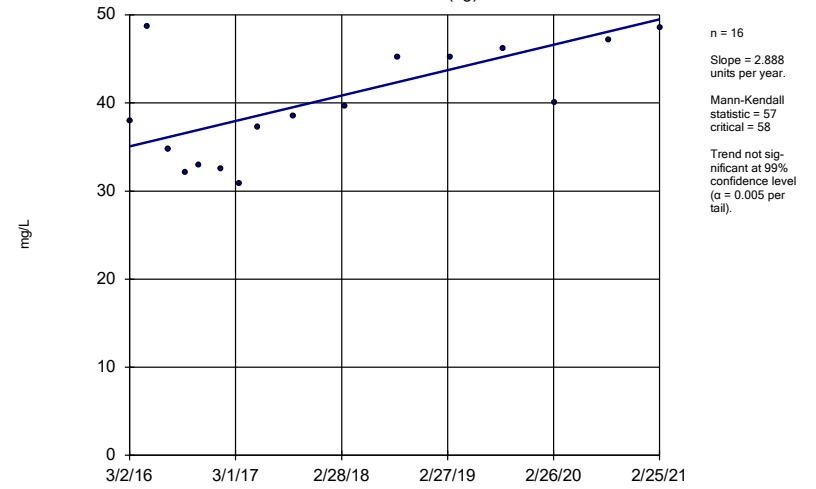
GWA-54 (bg)



Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

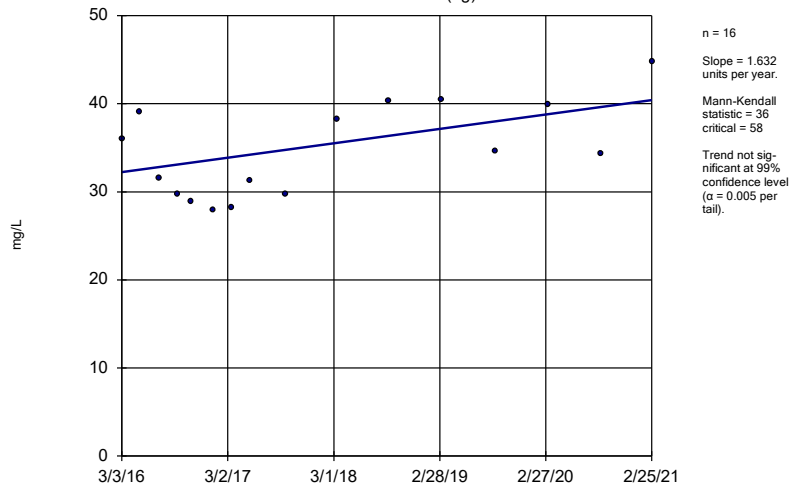
GWA-55 (bg)



Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

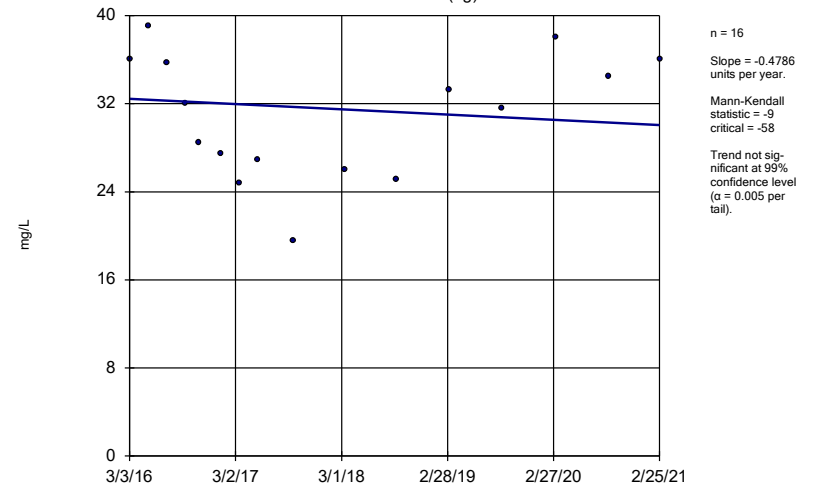
GWA-55R (bg)



Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

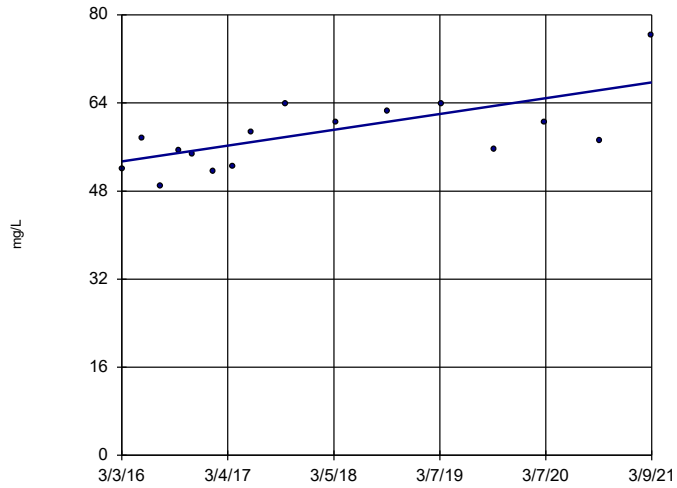
GWA-56 (bg)



Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWC-16R

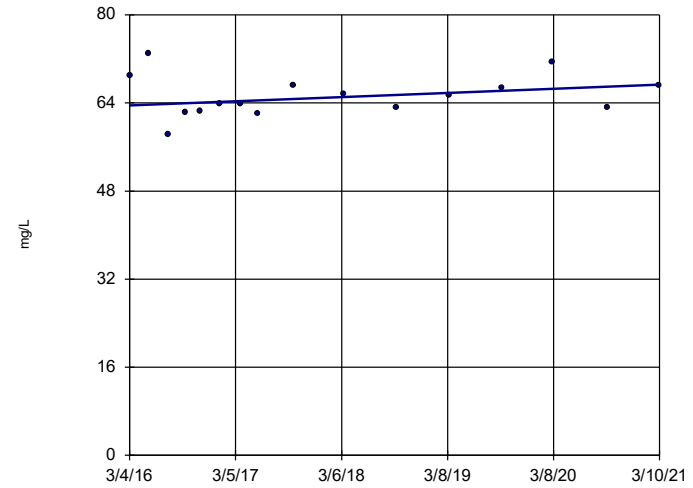


n = 16
 Slope = 2.861 units per year.
 Mann-Kendall statistic = 58
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWC-17R

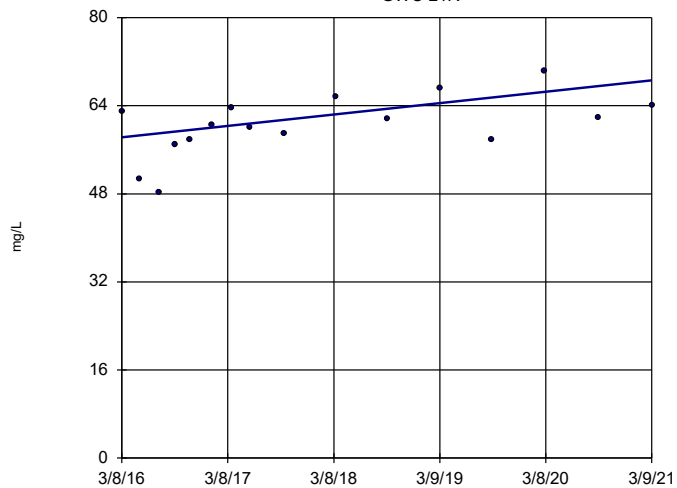


n = 16
 Slope = 0.748 units per year.
 Mann-Kendall statistic = 21
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWC-21R

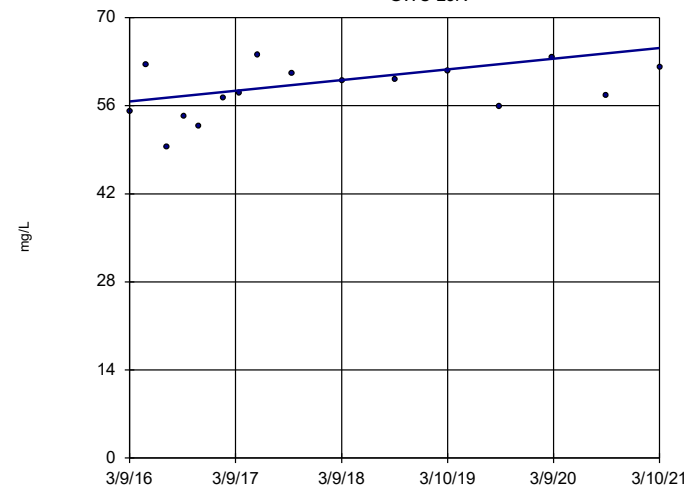


n = 16
 Slope = 2.067 units per year.
 Mann-Kendall statistic = 54
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWC-23R

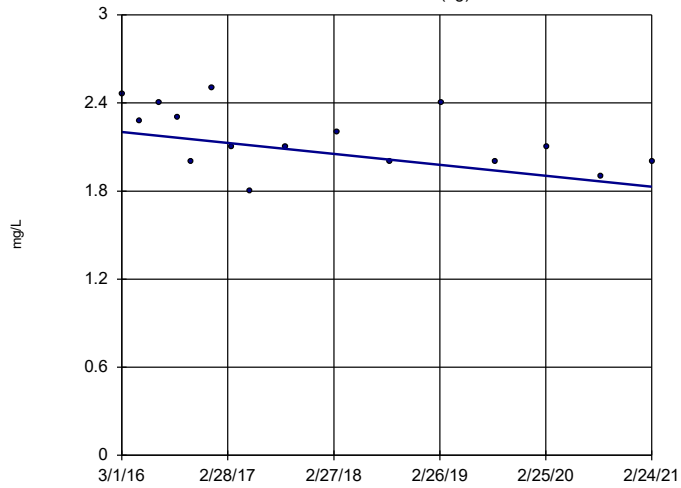


n = 16
 Slope = 1.695 units per year.
 Mann-Kendall statistic = 42
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-36 (bg)

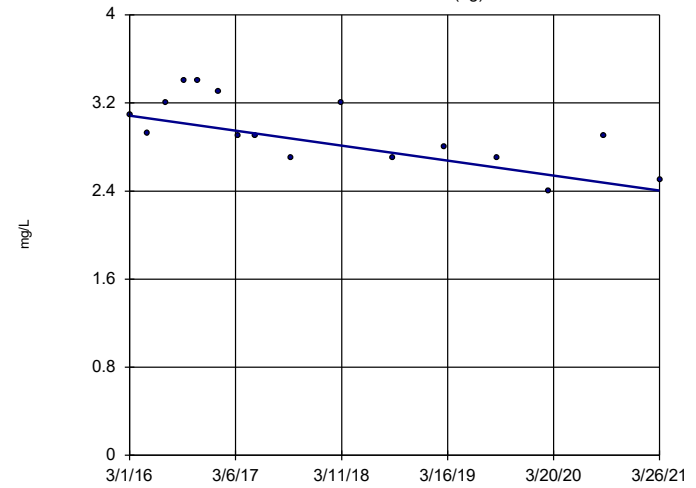


n = 16
 Slope = -0.07484
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-36R (bg)

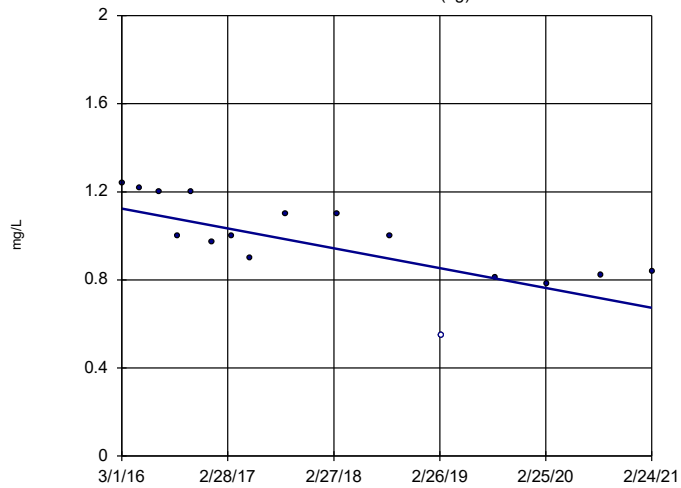


n = 16
 Slope = -0.1337
 units per year.
 Mann-Kendall
 statistic = -64
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-37 (bg)

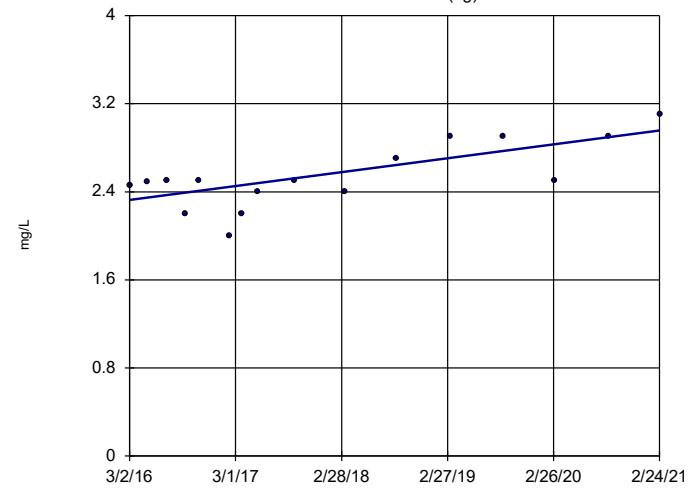


n = 16
 Slope = -0.09037
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

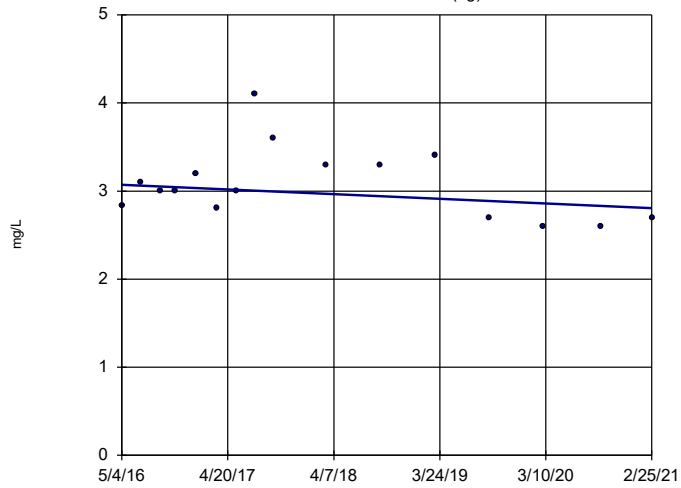
GWA-38 (bg)



n = 16
 Slope = 0.1267
 units per year.
 Mann-Kendall
 statistic = 61
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

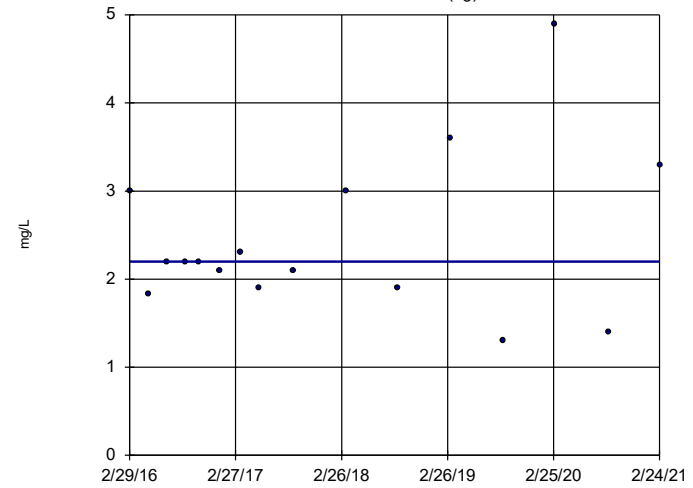
Sen's Slope Estimator
GWA-51RZ (bg)



n = 16
Slope = -0.05507
units per year.
Mann-Kendall
statistic = -18
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

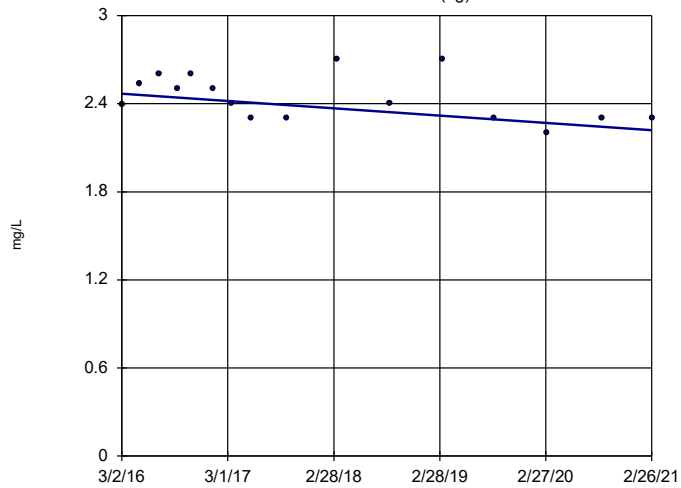
Sen's Slope Estimator
GWA-52 (bg)



n = 16
Slope = 0.0002948
units per year.
Mann-Kendall
statistic = 5
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

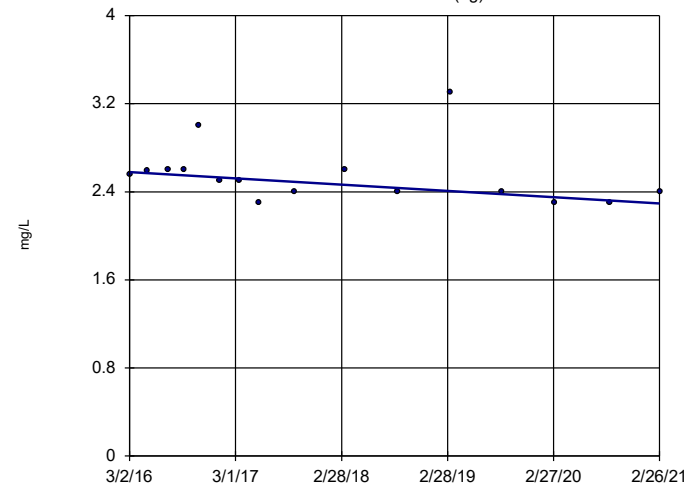
Sen's Slope Estimator
GWA-53 (bg)



n = 16
Slope = -0.04978
units per year.
Mann-Kendall
statistic = -40
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

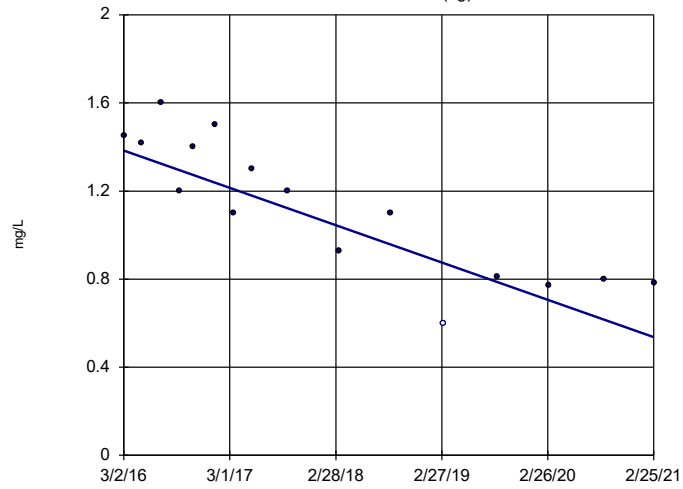
Sen's Slope Estimator
GWA-53R (bg)



n = 16
Slope = -0.05672
units per year.
Mann-Kendall
statistic = -43
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

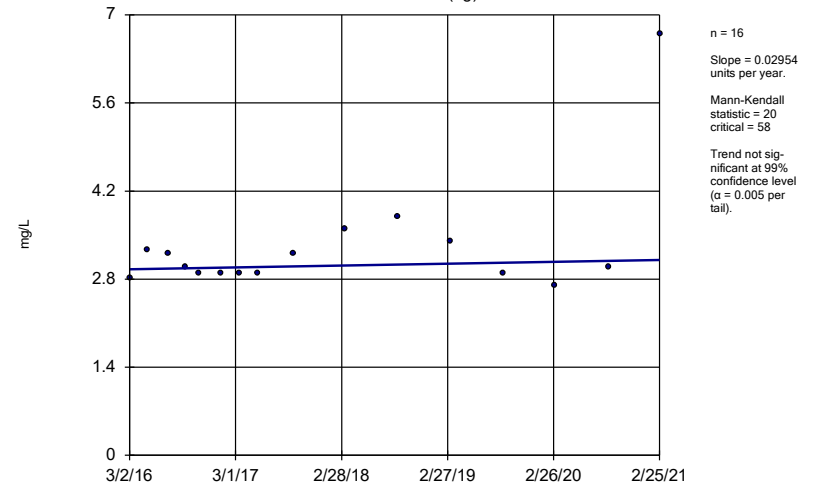
Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-54 (bg)



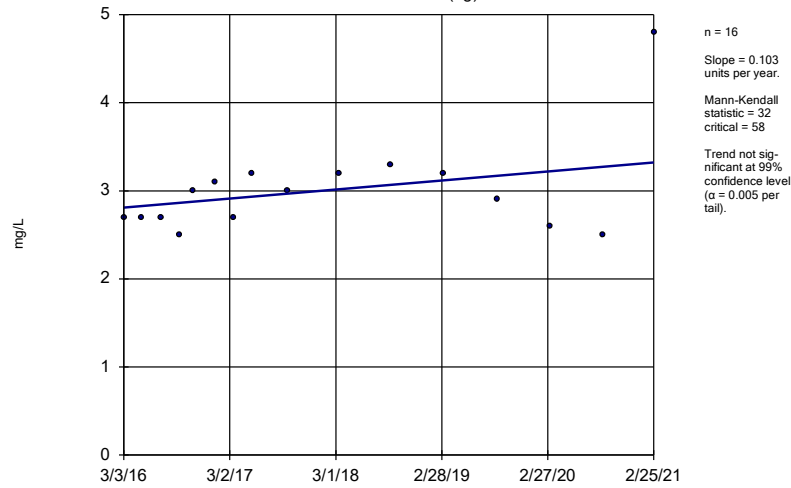
Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-55 (bg)



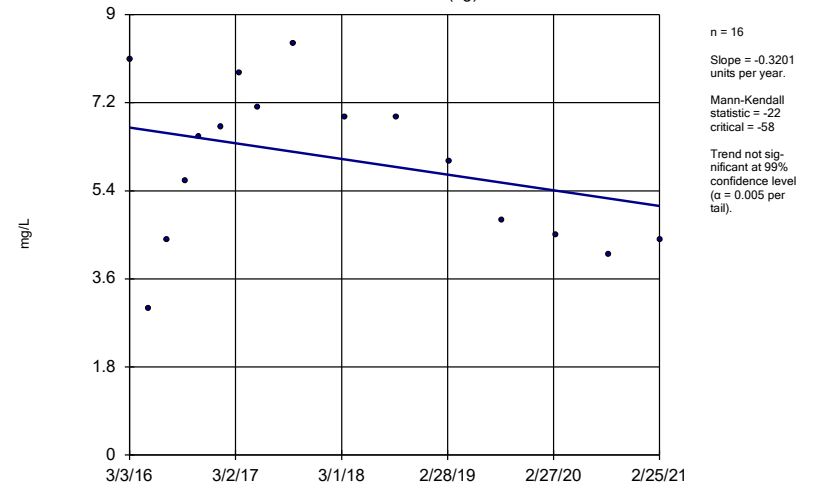
Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-55R (bg)

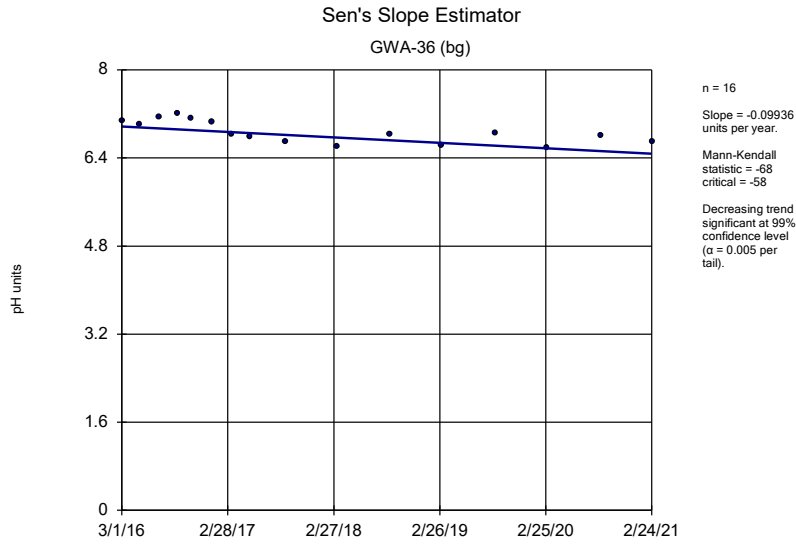


Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

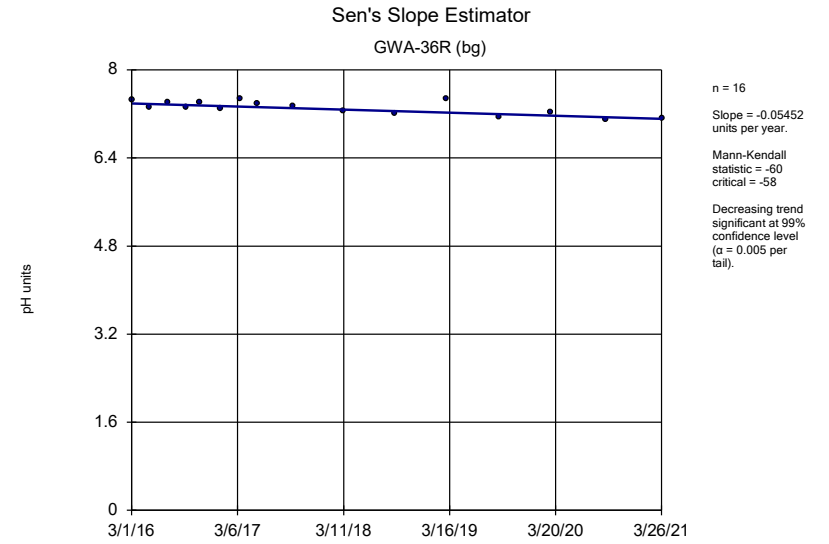
Sen's Slope Estimator
GWA-56 (bg)



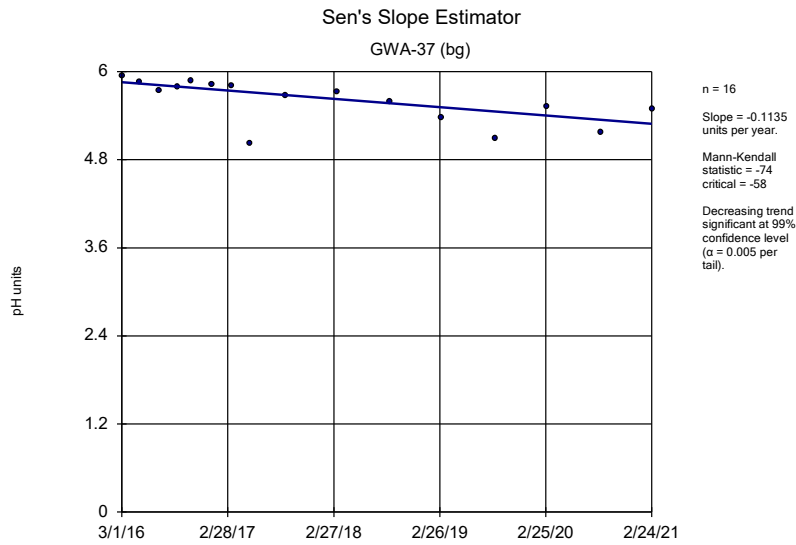
Constituent: Chloride Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR



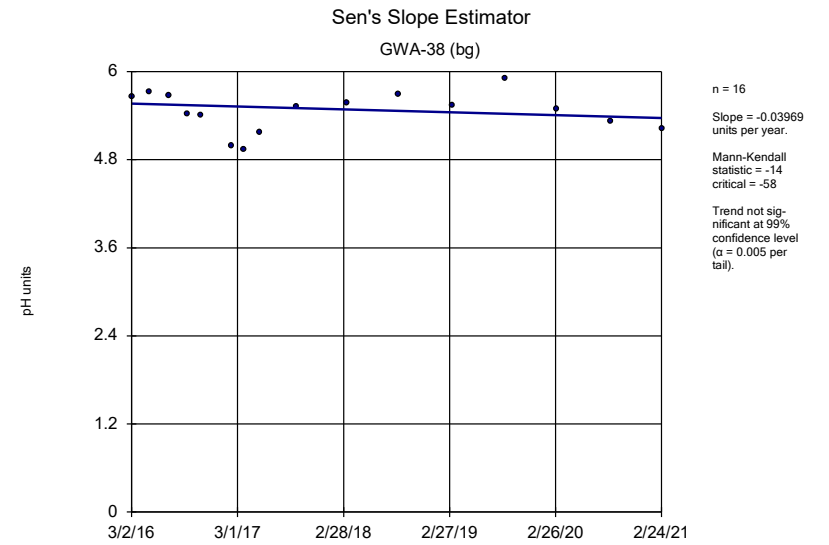
Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR



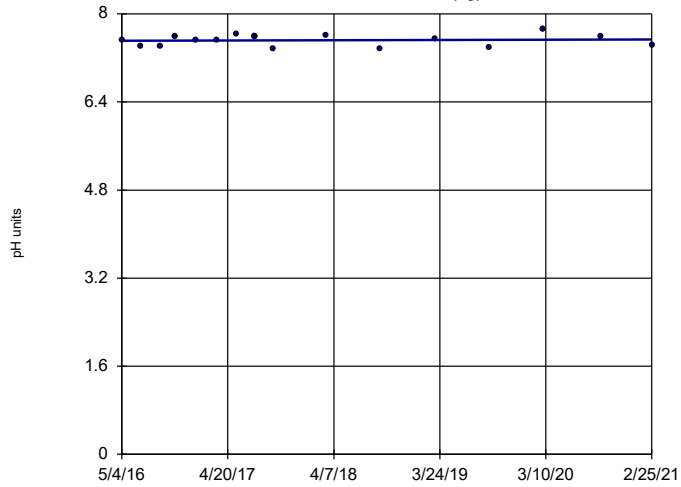
Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

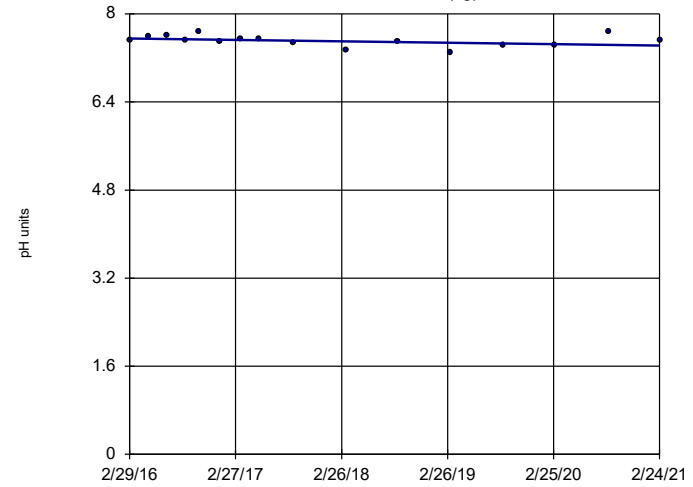
GWA-51RZ (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

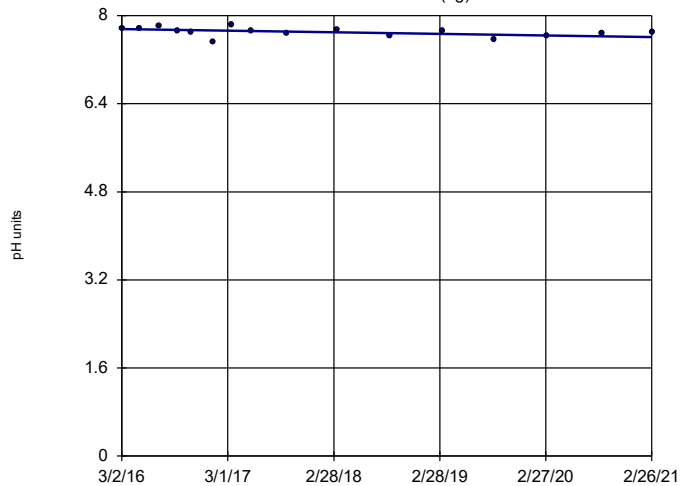
GWA-52 (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

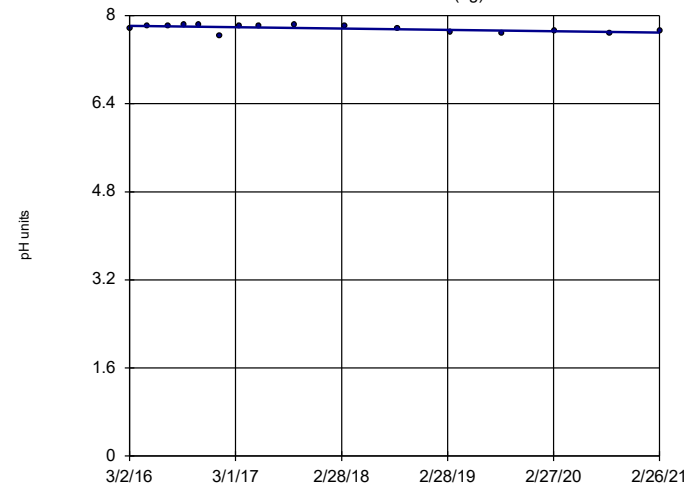
GWA-53 (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

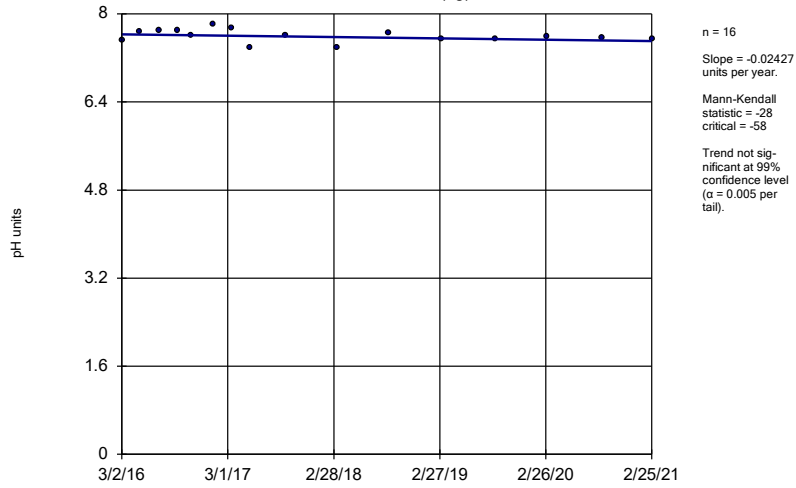
GWA-53R (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

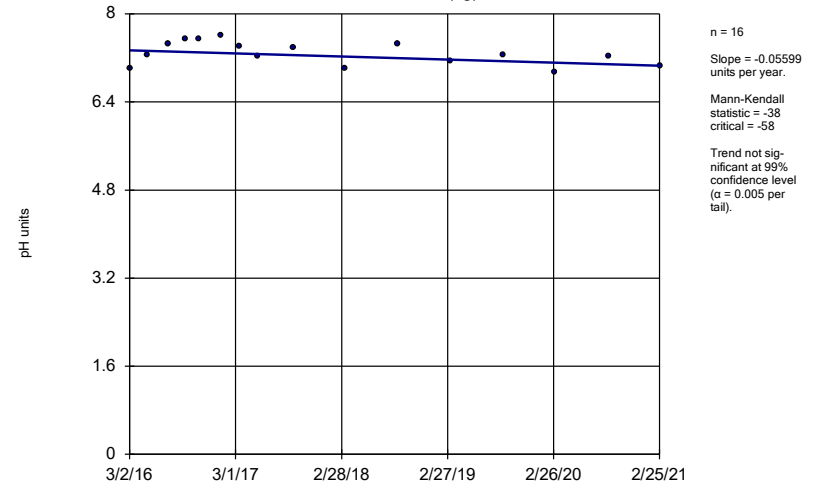
GWA-54 (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

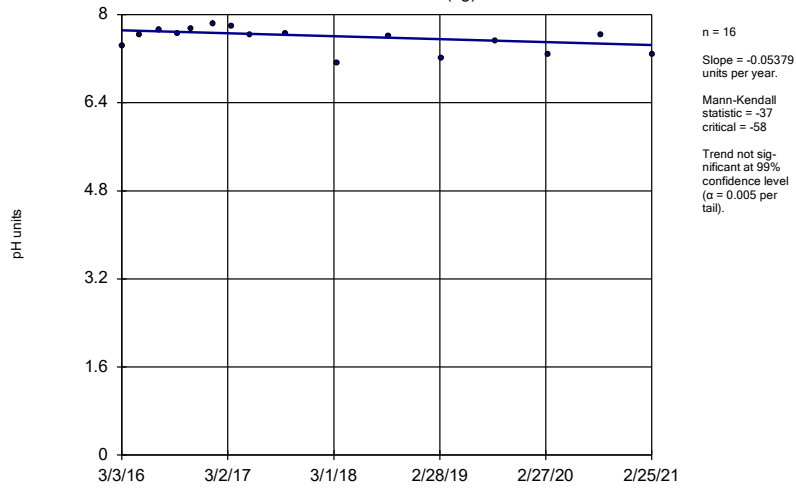
GWA-55 (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

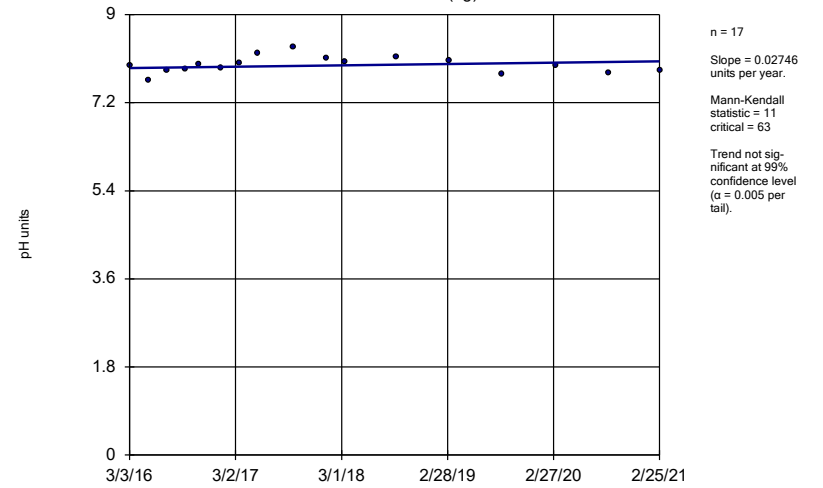
GWA-55R (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

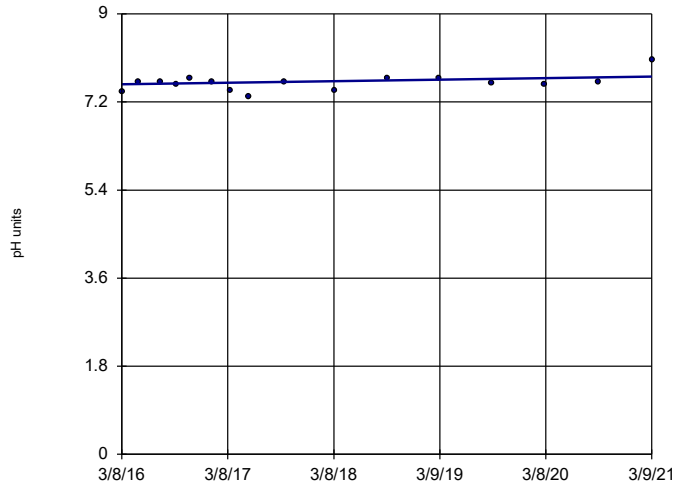
GWA-56 (bg)



Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWC-25R

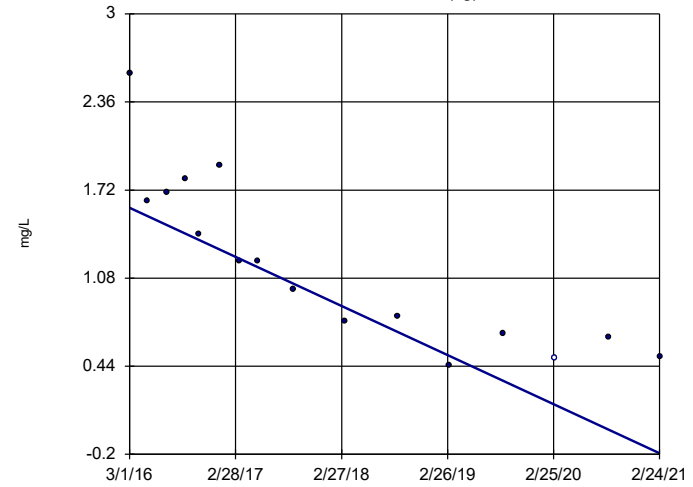


n = 16
 Slope = 0.03098 units per year.
 Mann-Kendall statistic = 32
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-36 (bg)

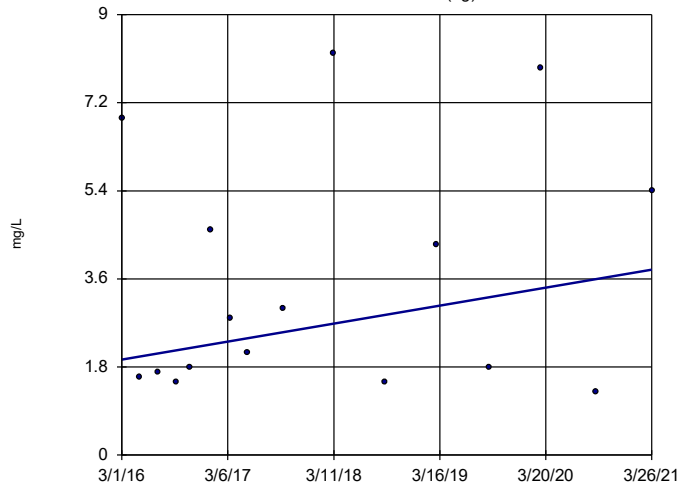


n = 16
 Slope = -0.3578 units per year.
 Mann-Kendall statistic = -91
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-36R (bg)

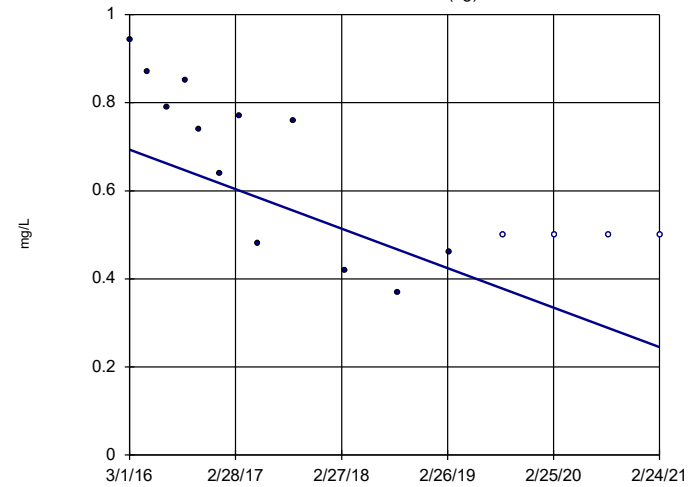


n = 16
 Slope = 0.3617 units per year.
 Mann-Kendall statistic = 16
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

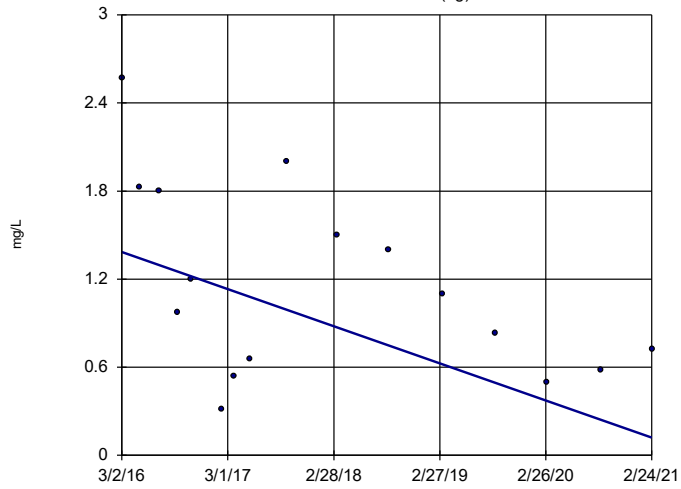
GWA-37 (bg)



n = 16
 Slope = -0.08982 units per year.
 Mann-Kendall statistic = -66
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

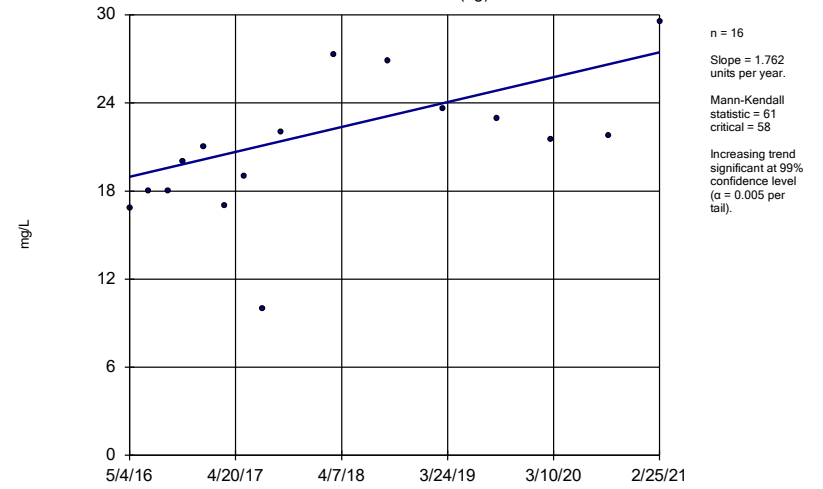
Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-38 (bg)



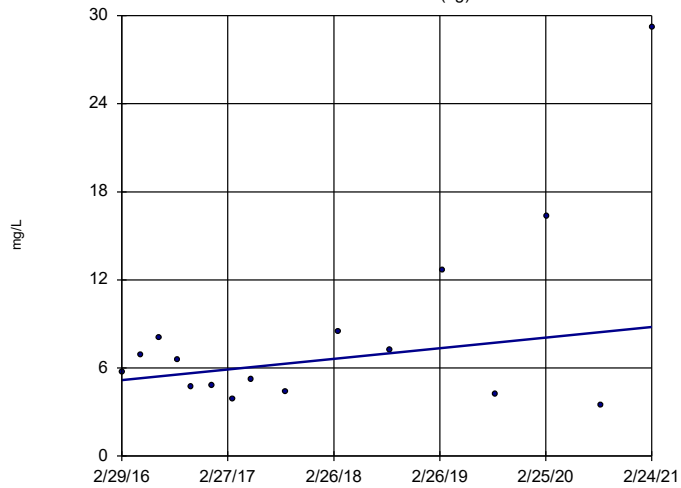
Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-51RZ (bg)



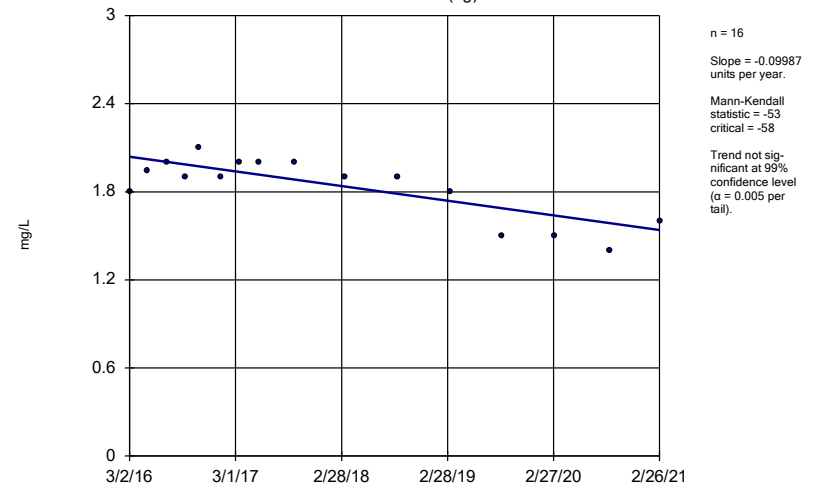
Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator
GWA-52 (bg)



Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

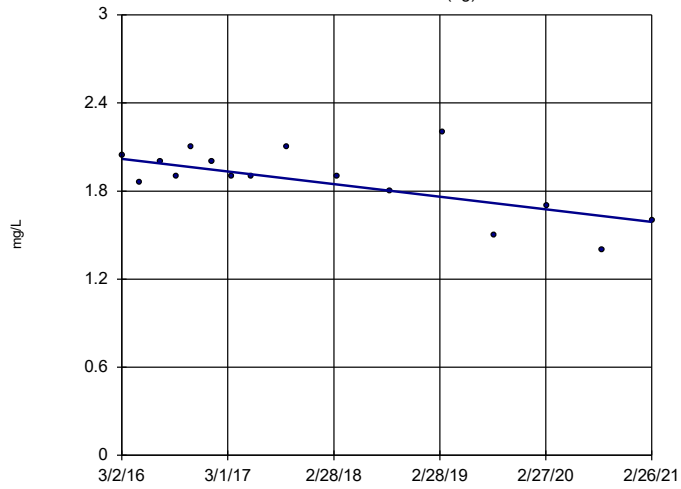
Sen's Slope Estimator
GWA-53 (bg)



Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-53R (bg)

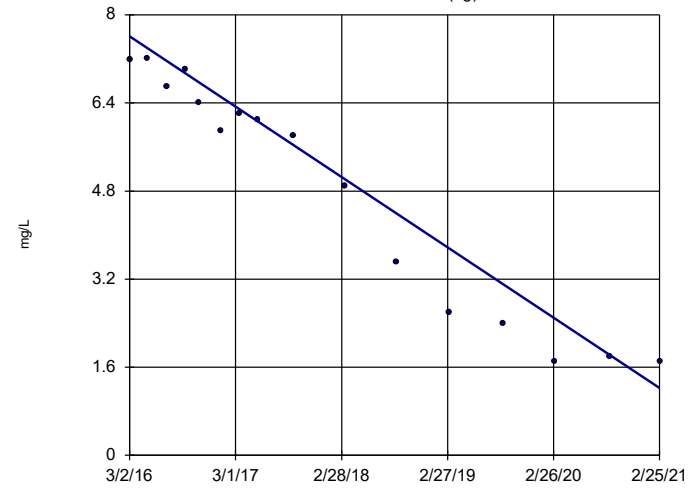


n = 16
 Slope = -0.08567
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-54 (bg)

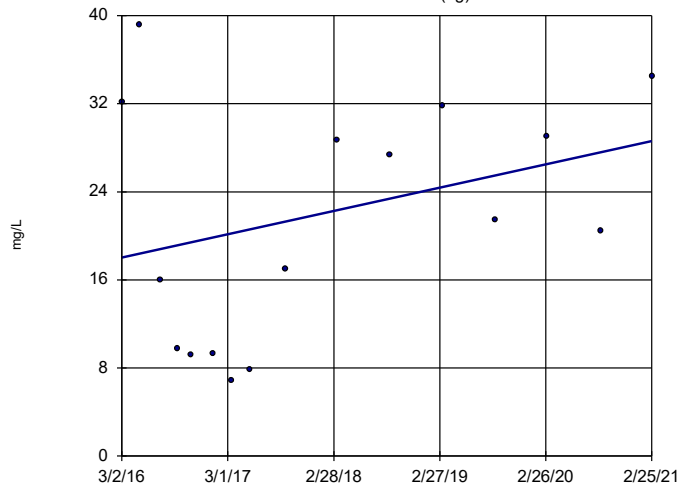


n = 16
 Slope = -1.28
 units per year.
 Mann-Kendall
 statistic = -109
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

GWA-55 (bg)

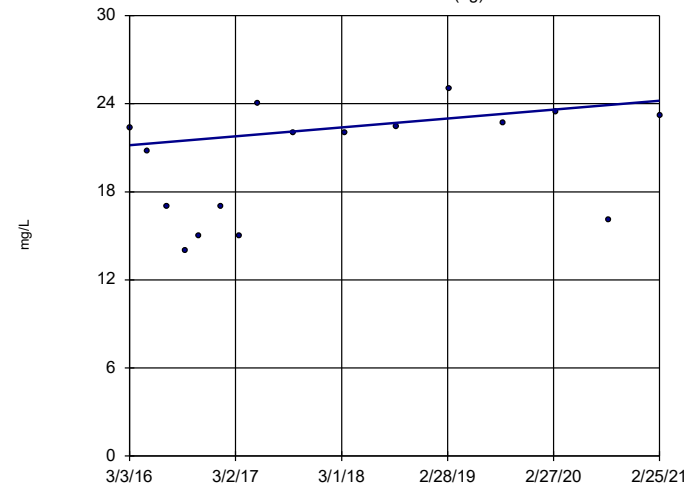


n = 16
 Slope = 2.12
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator

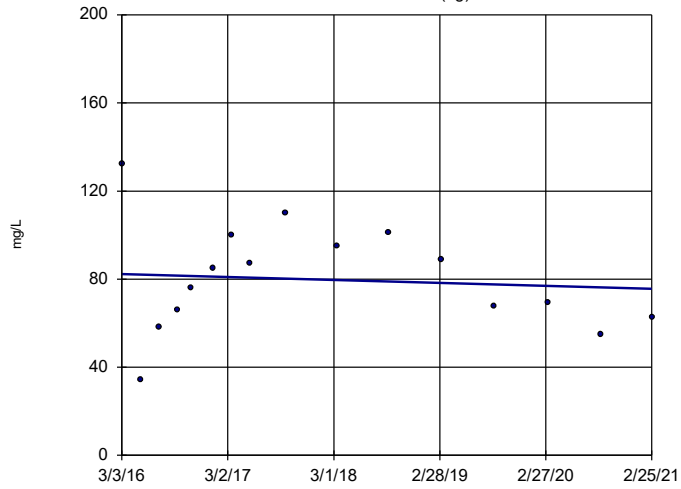
GWA-55R (bg)



n = 16
 Slope = 0.6075
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

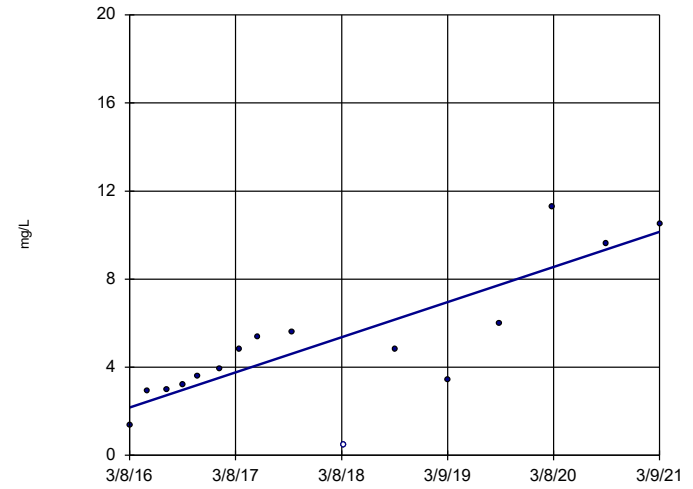
Sen's Slope Estimator GWA-56 (bg)



n = 16
Slope = -1.364
units per year.
Mann-Kendall
statistic = -4
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

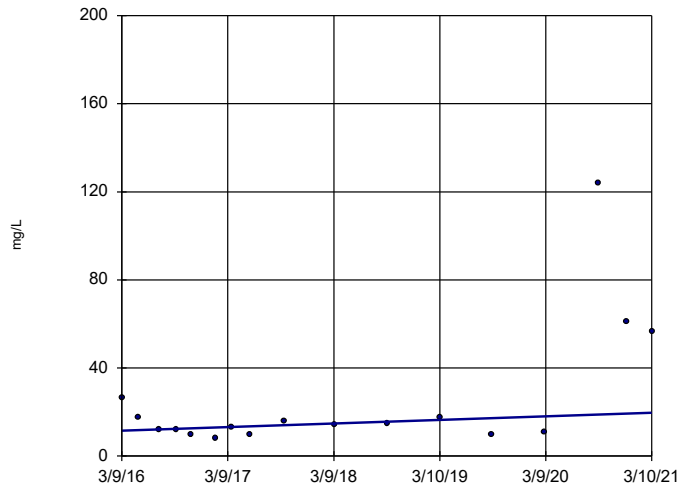
Sen's Slope Estimator GWC-21R



n = 16
Slope = 1.595
units per year.
Mann-Kendall
statistic = 81
critical = 58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

Sen's Slope Estimator GWC-23R



n = 17
Slope = 1.637
units per year.
Mann-Kendall
statistic = 27
critical = 63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/11/2021 10:33 AM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 3&4 CCR

GROUNDWATER STATS CONSULTING

August 24, 2021

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



Re: Plant Bowen Landfill Cells 9 & 10
March 2021 Event - Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater quality for the March 2021 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 United States Environmental Protection Agency (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 Kristina Rayner, Groundwater Statistician and Founder of 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. The terms “parameters” and “constituents” are interchangeable.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix I:** 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% non-detects 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 were provided with the screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Appendix I 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% non-detect 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 non-detects, 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% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean

and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may 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.

Two-Step Statistical Analysis

Intrawell statistical methods, combined with a 1-of-2 or 1-of-3 resample plans, may be used as a conservative first step for identifying potential facility impacts in downgradient wells. Intrawell methods use background data for individual wells and may be overly sensitive to natural variation. In particular for nonparametric limits with small background sample sizes, the probability of a false positive is much higher than the desired annual sitewide rate of 10%. Therefore, a large number of exceedances may occur as a result of natural variation rather than facility impacts. A second step can be used to further evaluate those exceedances and reduce the overall number of SSIs that result from natural variation. In instances where intrawell statistical methods identify an apparent SSI, a second step of interwell statistical evaluation may be used to determine whether the measurement exceeds the sitewide background limit based on pooled upgradient well data. This is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" (USEPA Unified Guidance (2009), Chapter 7, Section 7.5). For the detection monitoring program, if the result does not exceed sitewide (interwell) background, an SSI is not declared.

When the result exceeds the sitewide (interwell) background, the 1-of-2 resample plan allows for collection of an independent resample (the 1-of-3 allows up to 2 resamples) to confirm or disconfirm the initial finding. A statistically significant increase is not declared unless the resamples also exceed the intrawell prediction limit (United States Environmental Protection Agency (USEPA) Unified Guidance, March 2009, Chapter 19).

When the resample confirms the initial exceedance, 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). When any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. In cases where intrawell and interwell exceedances are noted and no resamples are collected, the initial exceedance will be considered a confirmed statistically significant increase (SSI).

Trend tests, in addition to interwell prediction limits, are recommended for well/constituent pairs found to have an initial intrawell SSI. Trend analysis will provide for detection of long-term changes and potential facility impacts at a given well in cases where the concentrations at that well remain below the sitewide upgradient limits. Thus, the two-step approach has additional capability to detect long-term changes at downgradient wells compared to interwell methods alone. While a trend may be identified by visual inspection, a quantification of the trend and its significance is needed to identify whether concentrations are statistically significantly increasing, decreasing, or remaining stable over time. The absence of a statistically significant increasing trend indicates that an initial intrawell exceedance is short-term and may be the result of natural variation rather than facility impact to groundwater. If a facility impact has occurred, it will likely result in additional exceedances in future sampling events. When a statistically significant increasing trend is noted, additional data may be needed to demonstrate that there is reasonable evidence that the initial intrawell statistical exceedance is a result of natural variation rather than a result of impact to groundwater quality downgradient of the facility.

Background Screening Summary Georgia EPD Appendix I 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 non-detects, 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. Intra-well 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 intra-well 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, intra-well 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. 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% non-detects 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. Additionally, in the future, the two-step statistical analysis described above will be applied before an SSI is confirmed.

Summary of Background Update for CCR Appendix III Parameters – 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 non-detect 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 used to evaluate future compliance samples for the above constituents at each downgradient well.

Statistical Analysis of Georgia EPD Appendix I Constituents – March 2021

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 G, respectively). Compliance data are compared to these intrawell background limits during each subsequent semi-annual sampling event. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. For some parameters such as zinc and cobalt, different reporting limits exist among wells. While the lowest reporting limit is plotted for all wells on the time series graphs for a given constituent, the most recent reporting limit for an individual wells is used as the non-detect substitution for the intrawell prediction limits. During this analysis, the following reporting limit changes occurred:

- Beryllium: <0.003 mg/L to <0.0005 mg/L
- Cadmium: <0.0025 mg/L to <0.0005 mg/L
- Chromium: <0.01 mg/L to <0.005 mg/L
- Copper: <0.025 mg/L to <0.005 mg/L
- Lead: <0.005 mg/L to <0.001 mg/L
- Mercury: <0.0005 mg/L to <0.0002 mg/L
- Nickel: <0.01 mg/L to <0.005 mg/L
- Selenium: <0.01 mg/L to <0.005 mg/L
- Silver: <0.01 mg/L to <0.005 mg/L

Therefore, slight changes were noted in the resulting intrawell prediction limits. As previously discussed, no statistical analyses were included for well/constituent pairs with 100% non-detects.

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

- Barium: GWC-49R
- Chromium: GWC-46R
- Zinc: GWC-47R

Overburden

- Antimony: GWA-39Z (upgradient)
- Barium: GWC-48
- Zinc: GWC-47

When exceedances are noted upgradient of the facility, it is an indication of naturally occurring changes in groundwater quality. Following the two-step analysis procedure, interwell prediction limits were then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedance for the Bedrock and Overburden downgradient wells (Figures E and H, respectively). The following exceedances were identified:

Bedrock

- Chromium: GWC-46R
- Zinc: GWC-47R

Overburden

- Barium: GWC-48
- Zinc: GWC-47

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 Bedrock well/constituent pairs and a statistically significant decreasing trend was identified among the Overburden wells for barium in upgradient well GWA-43. A summary of the trend test results for the Bedrock and Overburden wells follows this letter (Figures F and I, respectively).

Statistical Analysis of CCR Appendix III Parameters – March 2021

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 J). 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 well/constituent pairs:

- Calcium: GWC-45R
- Chloride: GWC-48
- Sulfate: GWC-45R and GWC-48

The reported measurement of 4.2 mg/L for sulfate at well GWC-45R exceeded its respective intrawell prediction limit of 4.171 mg/L as a result of the number of significant digits. Interwell prediction limits were then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedances from downgradient wells (Figure K). Exceedances were identified for the following well/constituent pairs:

- Calcium: GWC-45R
- Sulfate: GWC-48

Therefore, these well/constituent pairs would require further research to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source).

For boron, fluoride, and pH, which are evaluated using interwell prediction limits, combined with a 1-of-2 resample plan, prediction limits were constructed using all historical data through March 2021 (Figure L). Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to 0.04 mg/L) and fluoride (<0.3 mg/L to 0.1 mg/L), which resulted in slight changes to interwell limits. 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 (lower limit): GWC-44, GWC-45, GWC-48, and GWC-49Z
- pH (upper limit): GWC-49R

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 M). The following statistically significant trends were noted:

Increasing

- Calcium: GWA-42 (upgradient)
- Chloride: GWC-48

Decreasing

- Calcium: GWA-43 (upgradient)
- Chloride: GWA-39Z (upgradient) and GWA-41R (upgradient)
- pH: GWA-41R (upgradient), GWA-43 (upgradient), and GWC-49Z
- Sulfate: GWA-39Z (upgradient) and GWA-43 (upgradient)

Resample Reports – May 2021

Of the initial prediction limit exceedances noted, resamples were collected in May 2021 for chromium and pH in well GWC-46R and barium, sulfate, and pH in well GWC-48. Intrawell prediction limits were constructed to evaluate the resamples using background data as discussed previously for chromium, barium, and sulfate (Figures N, O, and P, respectively). Exceedances were noted for each of these well/constituent pairs, thus confirming the initial prediction limit exceedances.

When interwell prediction limits were constructed using pooled upgradient well data through May 2021 to evaluate pH in wells GWC-46R and GWC-48, an exceedance was

noted for GWC-48 confirming the initial interwell prediction limit exceedance (Figure Q). No exceedance was noted for pH in well GWC-46R; therefore, the initial exceedance was not confirmed and no further action is necessary.

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 as mentioned above (Figure R). While a few statistically significant decreasing trends were noted in upgradient wells for barium, pH, and sulfate, no statistically significant trends were identified. Complete graphical results of the trend tests follow this letter.

Summary

As a result of the Two-Step Approach, the following exceedances were identified:

Bedrock Appendix I

- Chromium: GWC-46R
- Zinc: GWC-47R

Overburden Appendix I

- Barium: GWC-48
- Zinc: GWC-47

Appendix III

- Calcium: GWC-45R
- Sulfate: GWC-48

After resampling in May 2021 for chromium and pH in well GWC-46R and barium, sulfate, and pH in well GWC-48, statistical exceedances were identified for chromium in well GWC-46R, and barium, sulfate, and pH in well GWC-48. Although a few upgradient wells for barium, pH, and sulfate exhibited statistically significant decreasing trends in upgradient wells, no statistically significant trends were noted among 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,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Bedrock

Analysis Run 4/29/2021 11:45 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Beryllium (mg/L)

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% Non-Detects: Overburden

Analysis Run 4/29/2021 10:50 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Antimony (mg/L)

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, 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

Appendix I Bedrock Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-49R	0.01169	n/a	3/15/2021	0.012	Yes	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/11/2021	0.0059	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/11/2021	0.028	Yes	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param 1 of 3

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39RZ	0.007699	n/a	3/16/2021	0.00041J	No	11	0.003012	0.002494	18.18	Kaplan-Meier	No	0.0008228	Param 1 of 3
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/10/2021	0.00037J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWA-43R	0.003	n/a	3/11/2021	0.00074J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWC-45R	0.003517	n/a	3/11/2021	0.003ND	No	11	0.001604	0.001018	27.27	Kaplan-Meier	No	0.0008228	Param 1 of 3
Antimony (mg/L)	GWC-46R	0.003	n/a	3/11/2021	0.003ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWC-47R	0.001616	n/a	3/11/2021	0.00038J	No	11	0.03034	0.005246	45.45	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Antimony (mg/L)	GWC-49R	0.003	n/a	3/15/2021	0.0019J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.005ND	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP (normality) 1 of 3
Arsenic (mg/L)	GWC-49R	0.005	n/a	3/15/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Barium (mg/L)	GWA-39RZ	0.01964	n/a	3/16/2021	0.014	No	11	0.01544	0.002236	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWA-41R	0.0447	n/a	3/10/2021	0.023	No	11	0.02243	0.01186	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWA-43R	0.008996	n/a	3/11/2021	0.0069	No	11	0.008105	0.0004743	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-45R	0.02411	n/a	3/11/2021	0.022	No	11	0.02006	0.002154	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-46R	0.02079	n/a	3/11/2021	0.012	No	11	0.01549	0.002822	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-47R	0.01808	n/a	3/11/2021	0.0073	No	10	0.01146	0.003404	10	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/15/2021	0.012	Yes	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param 1 of 3
Beryllium (mg/L)	GWA-39RZ	0.0005	n/a	3/16/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWA-41R	0.0005	n/a	3/10/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWA-43R	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWC-45R	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cadmium (mg/L)	GWA-39RZ	0.0005	n/a	3/16/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-39RZ	0.01	n/a	3/16/2021	0.0008J	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-43R	0.002735	n/a	3/11/2021	0.0011J	No	11	-6.826	0.492	45.45	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/11/2021	0.0059	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-47R	0.003043	n/a	3/11/2021	0.0019J	No	10	0.001916	0.0005792	0	None	No	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-49R	0.01	n/a	3/15/2021	0.00076J	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWA-39RZ	0.0057	n/a	3/16/2021	0.005ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Copper (mg/L)	GWA-39RZ	0.0271	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	71.43	n/a	n/a	0.008668	NP (NDs) 1 of 3
Copper (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP (NDs) 1 of 3
Lead (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.0002J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.00012J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.00013J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.000045J	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWC-47R	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWA-39RZ	0.0002	n/a	3/16/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWA-43R	0.0002	n/a	3/11/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWC-47R	0.0002	n/a	3/11/2021	0.0002ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWC-49R	0.0002	n/a	3/15/2021	0.0002ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-39RZ	0.0224	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-49R	0.005	n/a	3/15/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Silver (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP (NDs) 1 of 3
Thallium (mg/L)	GWA-39RZ	0.001	n/a	3/16/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWA-41R	0.001	n/a	3/10/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWC-46R	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWC-47R	0.0009583	n/a	3/11/2021	0.001ND	No	11	-7.867	0.4878	0	None	ln(x)	0.0008228	Param 1 of 3
Thallium (mg/L)	GWC-49R	0.001	n/a	3/15/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Vanadium (mg/L)	GWA-39RZ	0.01	n/a	3/16/2021	0.01ND	No	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP (NDs) 1 of 3
Vanadium (mg/L)	GWA-43R	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Vanadium (mg/L)	GWC-47R	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-39RZ	0.02	n/a	3/16/2021	0.02ND	No	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-41R	0.02	n/a	3/10/2021	0.02ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-43R	0.0106	n/a	3/11/2021	0.02ND	No	10	0.06528	0.01935	50	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-45R	0.007759	n/a	3/11/2021	0.02ND	No	10	0.0511	0.01901	40	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-46R	0.006955	n/a	3/11/2021	0.02ND	No	10	-5.789	0.4217	50	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/11/2021	0.028	Yes	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-49R	0.02	n/a	3/15/2021	0.02ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3

Appendix I Bedrock Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.0059	Yes	47	n/a	n/a	55.32	n/a	n/a	0.00005401	NP (NDs) 1 of 3
Zinc (mg/L)	GWC-47R	0.02	n/a	3/11/2021	0.028	Yes	41	n/a	n/a	56.1	n/a	n/a	0.00007687	NP (NDs) 1 of 3

Appendix I Bedrock Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-49R	0.0462	n/a	3/15/2021	0.012	No	47	n/a	n/a	0	n/a	n/a	0.00005401	NP (normality) 1 of 3
Chromium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.0059	Yes	47	n/a	n/a	55.32	n/a	n/a	0.00005401	NP (NDs) 1 of 3
Zinc (mg/L)	GWC-47R	0.02	n/a	3/11/2021	0.028	Yes	41	n/a	n/a	56.1	n/a	n/a	0.00007687	NP (NDs) 1 of 3

Appendix I Bedrock Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 3:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39RZ (bg)	0.0005584	23	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41R (bg)	0.001767	21	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43R (bg)	-0.0001579	-37	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-49R	0.0003487	17	58	No	16	6.25	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39RZ (bg)	-0.0001177	-23	-53	No	15	40	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41R (bg)	0	-10	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43R (bg)	-0.00009397	-22	-58	No	16	37.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWC-46R	0.0003103	28	58	No	16	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-39RZ (bg)	0	0	34	No	11	54.55	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-41R (bg)	0	-10	-53	No	15	66.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-43R (bg)	0	-3	-53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-47R	0.002517	23	53	No	15	13.33	n/a	n/a	0.01	NP

Appendix I Overburden Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/12/2021	0.0039	Yes	11	0.001342	0.0008802	27.27	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/11/2021	0.038	Yes	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/11/2021	0.047	Yes	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/12/2021	0.0039	Yes	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	3/10/2021	0.003ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-41	0.003	n/a	3/11/2021	0.00038J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-42	0.003	n/a	3/11/2021	0.003ND	No	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	3/11/2021	0.003ND	No	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	3/11/2021	0.00062J	No	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	3/11/2021	0.003ND	No	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	3/11/2021	0.003ND	No	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	3/15/2021	0.00086J	No	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	3/12/2021	0.005ND	No	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	3/10/2021	0.005ND	No	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	3/11/2021	0.005ND	No	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	3/11/2021	0.005ND	No	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	3/12/2021	0.014	No	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	3/10/2021	0.0083	No	10	0.009012	0.001613	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-41	0.03429	n/a	3/11/2021	0.024	No	11	0.02693	0.003812	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-42	0.00668	n/a	3/11/2021	0.0061	No	11	0.006255	0.0002197	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-43	0.04119	n/a	3/11/2021	0.0096	No	11	0.02405	0.00887	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-44	0.0758	n/a	3/11/2021	0.046	No	10	0.0348	0.0205	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-45	0.006266	n/a	3/11/2021	0.0059	No	10	0.00579	0.0002378	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-47	0.01736	n/a	3/11/2021	0.0083	No	11	0.01361	0.001939	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/11/2021	0.038	Yes	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	3/15/2021	0.0028J	No	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	3/11/2021	0.00015J	No	9	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWA-43	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-44	0.003	n/a	3/11/2021	0.000064J	No	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	3/11/2021	0.00033J	No	11	n/a	n/a	27.27	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-39Z	0.0005	n/a	3/12/2021	0.0005ND	No	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	3/11/2021	0.00017J	No	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-43	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-44	0.0005	n/a	3/11/2021	0.0005ND	No	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	3/11/2021	0.00018J	No	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	3/11/2021	0.00021J	No	10	-8.534	0.6559	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Cadmium (mg/L)	GWC-49Z	0.0001785	n/a	3/15/2021	0.0005ND	No	11	0.0103	0.001585	36.36	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/12/2021	0.00064J	No	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	3/10/2021	0.00075J	No	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	3/11/2021	0.0015J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-45	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0013J	No	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	3/11/2021	0.0021J	No	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	3/15/2021	0.005ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39Z	0.009517	n/a	3/12/2021	0.00079J	No	11	0.04959	0.02482	9.091	None	sqrt(x)	0.0007022	Param Intra 1 of 3
Cobalt (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0016J	No	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	3/11/2021	0.0011J	No	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	3/11/2021	0.0025J	No	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	3/15/2021	0.00056J	No	11	0.003487	0.001319	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Copper (mg/L)	GWA-39Z	0.005	n/a	3/12/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-40	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Copper (mg/L)	GWC-47	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-48	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-49Z	0.005	n/a	3/15/2021	0.005ND	No	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	3/12/2021	0.0002J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-40	0.001	n/a	3/10/2021	0.001ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-42	0.001	n/a	3/11/2021	0.001ND	No	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	3/11/2021	0.000063J	No	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	3/11/2021	0.00053J	No	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	3/11/2021	0.00012J	No	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	3/11/2021	0.000048J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-48	0.001	n/a	3/11/2021	0.001ND	No	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	3/15/2021	0.000046J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-40	0.0002	n/a	3/10/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-42	0.0002	n/a	3/11/2021	0.0002ND	No	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	3/11/2021	0.0002J	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49Z	0.0002	n/a	3/15/2021	0.0002ND	No	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	3/12/2021	0.0015J	No	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Nickel (mg/L)	GWA-41	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0011J	No	10	n/a	n/a	20	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	40	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.00092J	No	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-47	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0047J	No	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	3/15/2021	0.0013J	No	10	0.004688	0.002447	10	None	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-44	0.005726	n/a	3/11/2021	0.005ND	No	11	0.0032	0.001307	45.45	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWC-48	0.005	n/a	3/11/2021	0.005ND	No	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	3/12/2021	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)	GWA-40	0.001	n/a	3/10/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/11/2021	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-47	0.001	n/a	3/11/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/15/2021	0.001ND	No	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	3/11/2021	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-45	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39Z	0.02	n/a	3/12/2021	0.0065J	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-40	0.02	n/a	3/10/2021	0.02ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41	0.02	n/a	3/11/2021	0.02ND	No	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	3/11/2021	0.0089J	No	10	0.09783	0.01143	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWA-43	0.01051	n/a	3/11/2021	0.02ND	No	10	0.06139	0.02056	50	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-44	0.006244	n/a	3/11/2021	0.004J	No	10	0.06517	0.006924	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-45	0.02	n/a	3/11/2021	0.02ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/11/2021	0.047	Yes	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	3/11/2021	0.0088J	No	10	0.006348	0.001312	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-49Z	0.02	n/a	3/15/2021	0.02ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Appendix I Overburden Interwell Prediction Limits - All Results (All Significant)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-48	0.037	n/a	3/11/2021	0.038	Yes	79	n/a	n/a	2.532	n/a	n/a	0.00001139	NP (normality) 1 of 3
Zinc (mg/L)	GWC-47	0.02	n/a	3/11/2021	0.047	Yes	75	n/a	n/a	56	n/a	n/a	0.00001347	NP (NDs) 1 of 3

Appendix I Overburden Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:15 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-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

Appendix I Overburden Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:15 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39Z (bg)	0.0009314	13	58	No	16	12.5	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-40 (bg)	-0.0005076	-36	-53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41 (bg)	-0.001564	-55	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-42 (bg)	0.00006759	26	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-48	0.0009325	24	58	No	16	6.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-39Z (bg)	0	-12	-53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-40 (bg)	0	-17	-53	No	15	80	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-41 (bg)	0	-10	-53	No	15	80	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-42 (bg)	0	-1	-53	No	15	26.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-43 (bg)	0	6	53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-47	0.004042	57	58	No	16	12.5	n/a	n/a	0.01	NP

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	41.57	n/a	3/11/2021	43.1	Yes	13	33.75	3.119	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/11/2021	4.5	Yes	13	2.572	0.4151	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/11/2021	4.2	Yes	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/11/2021	15.4	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-39RZ	41.66	n/a	3/16/2021	32.4	No	13	31.85	3.916	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-39Z	35.15	n/a	3/12/2021	11	No	14	14.39	8.463	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-40	28.9	n/a	3/10/2021	22.8	No	13	21.22	3.07	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-41	40.96	n/a	3/11/2021	25.9	No	13	18.11	9.126	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-41R	45.25	n/a	3/10/2021	40.3	No	13	33.5	4.693	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/11/2021	34.8	No	13	30.44	2.022	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-43	19.73	n/a	3/11/2021	2.1	No	13	7.587	4.85	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-43R	32.72	n/a	3/11/2021	31.2	No	14	28.45	1.742	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-44	16.95	n/a	3/11/2021	11.9	No	13	5.414	4.606	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-45	0.9609	n/a	3/11/2021	0.93J	No	13	0.9012	0.03156	0	None	sqrt(x)	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/11/2021	43.1	Yes	13	33.75	3.119	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-46R	54.42	n/a	3/11/2021	45.2	No	13	44.5	3.96	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-47	30.67	n/a	3/11/2021	21.1	No	13	23.9	2.702	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-47R	38.32	n/a	3/11/2021	31.8	No	13	30.12	3.276	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-48	11.28	n/a	3/11/2021	5.9	No	13	1.729	0.6507	7.692	None	sqrt(x)	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-49R	31.53	n/a	3/15/2021	24.7	No	13	25.18	2.536	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-49Z	6.919	n/a	3/15/2021	0.69J	No	13	1.179	0.2903	0	None	x^(1/3)	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-39RZ	3.98	n/a	3/16/2021	1.3	No	13	2.48	0.5988	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-39Z	2.355	n/a	3/12/2021	1.2	No	13	1.633	0.2883	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-40	3.889	n/a	3/10/2021	0.97J	No	14	1.224	0.305	0	None	sqrt(x)	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-41	4.209	n/a	3/11/2021	1.5	No	13	2.027	0.8715	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-41R	6.223	n/a	3/10/2021	1.6	No	13	3.133	1.234	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-42	3.894	n/a	3/11/2021	2.5	No	13	2.763	0.4518	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-43	1.591	n/a	3/11/2021	1.3	No	13	1.329	0.1047	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-43R	5.573	n/a	3/11/2021	2.7	No	13	3.368	0.8802	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-44	9.945	n/a	3/11/2021	5.5	No	14	4.578	2.188	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-45	1.232	n/a	3/11/2021	0.83J	No	13	0.9601	0.1087	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/11/2021	4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Chloride (mg/L)	GWC-46R	3.019	n/a	3/11/2021	1.1	No	13	2.15	0.3467	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-47	3.019	n/a	3/11/2021	2.3	No	13	2.519	0.2	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-47R	3.021	n/a	3/11/2021	2.4	No	13	2.5	0.2079	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/11/2021	4.5	Yes	13	2.572	0.4151	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-49R	2.7	n/a	3/15/2021	1.2	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Chloride (mg/L)	GWC-49Z	1.455	n/a	3/15/2021	0.98J	No	13	1.118	0.1348	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-39RZ	30.14	n/a	3/16/2021	3.5	No	13	12.5	7.045	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-39Z	9.678	n/a	3/12/2021	2	No	13	4.516	2.061	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-40	7.087	n/a	3/10/2021	1.5	No	14	1.363	0.5295	7.143	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-41	11.99	n/a	3/11/2021	6.1	No	13	1.385	0.3607	0	None	x^(1/3)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-41R	12.93	n/a	3/10/2021	8.4	No	13	5.16	3.101	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-42	2.644	n/a	3/11/2021	1.6	No	13	1.641	0.4006	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-43	2.037	n/a	3/11/2021	0.5ND	No	13	0.8393	0.4783	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-43R	10.71	n/a	3/11/2021	4.3	No	13	6.176	1.812	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-44	52.83	n/a	3/11/2021	35.5	No	13	17.74	14.01	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45	1.809	n/a	3/11/2021	0.5ND	No	13	0.7349	0.4287	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/11/2021	4.2	Yes	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-46R	9.593	n/a	3/11/2021	6.7	No	13	6.725	1.145	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-47	5.618	n/a	3/11/2021	4.7	No	13	4.287	0.5315	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-47R	16.1	n/a	3/11/2021	10.4	No	13	9.164	2.771	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/11/2021	15.4	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-49R	6.225	n/a	3/15/2021	2.6	No	14	1.88	0.2508	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-49Z	10.28	n/a	3/15/2021	1.5	No	13	0.9416	0.5543	0	None	ln(x)	0.0008358	Param 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWA-39RZ	264.6	n/a	3/16/2021	142	No	13	170.3	37.67	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-39Z	175.8	n/a	3/12/2021	55	No	12	77	38.66	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-40	161.4	n/a	3/10/2021	60	No	13	107.8	21.41	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-41	200.2	n/a	3/11/2021	101	No	13	85.46	45.83	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/10/2021	148	No	13	156	36.55	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-42	187.7	n/a	3/11/2021	109	No	13	135.9	20.69	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-43	90.21	n/a	3/11/2021	14	No	13	40.62	19.8	23.08	Kaplan-Meier	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-43R	179.1	n/a	3/11/2021	98	No	13	141	15.22	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-44	190.9	n/a	3/11/2021	43	No	14	3.427	0.9504	21.43	Kaplan-Meier	x^(1/3)	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/11/2021	12	No	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/11/2021	167	No	13	158.7	27.13	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-46R	293.7	n/a	3/11/2021	209	No	13	234.8	23.52	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-47	171.4	n/a	3/11/2021	106	No	13	127.8	17.38	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-47R	187.7	n/a	3/11/2021	143	No	13	154.5	13.26	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/11/2021	40	No	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-49R	196.3	n/a	3/15/2021	107	No	13	126.6	27.83	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-49Z	63.44	n/a	3/15/2021	30	No	13	31.4	12.79	23.08	Kaplan-Meier	No	0.0008358	Param 1 of 2

Appendix III Interwell Prediction Limits - Intrawell Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	42.9	n/a	3/11/2021	43.1	Yes	130	n/a	n/a	0	n/a	n/a	0.0001171	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-48	14.01	n/a	3/11/2021	15.4	Yes	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2

Appendix III Interwell Prediction Limits - Intrawell Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	42.9	n/a	3/11/2021	43.1	Yes	130	n/a	n/a	0	n/a	n/a	0.0001171	NP (normality) 1 of 2
Chloride (mg/L)	GWC-48	6.147	n/a	3/11/2021	4.5	No	129	n/a	n/a	0	n/a	n/a	0.0001189	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-45R	14.01	n/a	3/11/2021	4.2	No	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	14.01	n/a	3/11/2021	15.4	Yes	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-44	7.89	5.5	3/11/2021	4.21	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45	7.89	5.5	3/11/2021	4.68	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	3/11/2021	4.95	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49R	7.89	5.5	3/15/2021	8.05	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49Z	7.89	5.5	3/15/2021	5.31	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.04	n/a	3/11/2021	0.016J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45R	0.04	n/a	3/11/2021	0.006J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-46R	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47R	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-48	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49R	0.04	n/a	3/15/2021	0.01J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49Z	0.04	n/a	3/15/2021	0.0066J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-44	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-46R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-48	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49R	0.27	n/a	3/15/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49Z	0.27	n/a	3/15/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
pH (SU)	GWC-44	7.89	5.5	3/11/2021	4.21	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45	7.89	5.5	3/11/2021	4.68	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45R	7.89	5.5	3/11/2021	7.21	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-46R	7.89	5.5	3/11/2021	7.53	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-47	7.89	5.5	3/11/2021	7.34	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-47R	7.89	5.5	3/11/2021	7.48	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	3/11/2021	4.95	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49R	7.89	5.5	3/15/2021	8.05	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49Z	7.89	5.5	3/15/2021	5.31	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-42 (bg)	1.06	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43 (bg)	-2.208	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1468	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4173	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-48	0.3842	86	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49Z	-0.1193	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-39RZ (bg)	0.7543	29	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-39Z (bg)	0.3593	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-40 (bg)	0.104	5	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-41 (bg)	1.245	16	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-41R (bg)	-1.862	-37	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-42 (bg)	1.06	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43 (bg)	-2.208	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43R (bg)	0.8953	63	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-45R	1.808	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39RZ (bg)	-0.1647	-31	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1468	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-40 (bg)	0	-2	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41 (bg)	-0.1103	-39	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4173	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-42 (bg)	0.01532	9	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-43 (bg)	0	1	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-43R (bg)	-0.08882	-11	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-48	0.3842	86	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39RZ (bg)	-0.003632	-7	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39Z (bg)	-0.01862	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWA-40 (bg)	-0.03578	-30	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41 (bg)	0.01645	6	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-42 (bg)	0	0	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43R (bg)	-0.01551	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-44	-0.05539	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-45	-0.04553	-65	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWC-48	-0.03568	-41	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49R	0.04817	44	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49Z	-0.1193	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39RZ (bg)	-0.3795	-9	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1043	29	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41 (bg)	0.1662	15	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41R (bg)	0.8058	35	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-42 (bg)	0.05143	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3994	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-45R	0.2353	36	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-48	-0.1212	-11	-63	No	17	5.882	n/a	n/a	0.01	NP

Appendix I Bedrock Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-46R	0.003994	n/a	5/26/2021	0.0052	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	In(x)	0.0008228	Param Intra 1 of 3

Appendix I Overburden Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-48	0.03637	n/a	5/26/2021	0.039	Yes	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3

Appendix III Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-48	3.856	n/a	5/26/2021	20.2	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param Intra 1 of 2

Appendix III Interwell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-46R	7.89	5.5	5/26/2021	7.39	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP Inter (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	5/26/2021	4.72	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Resample Results (Significant)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP

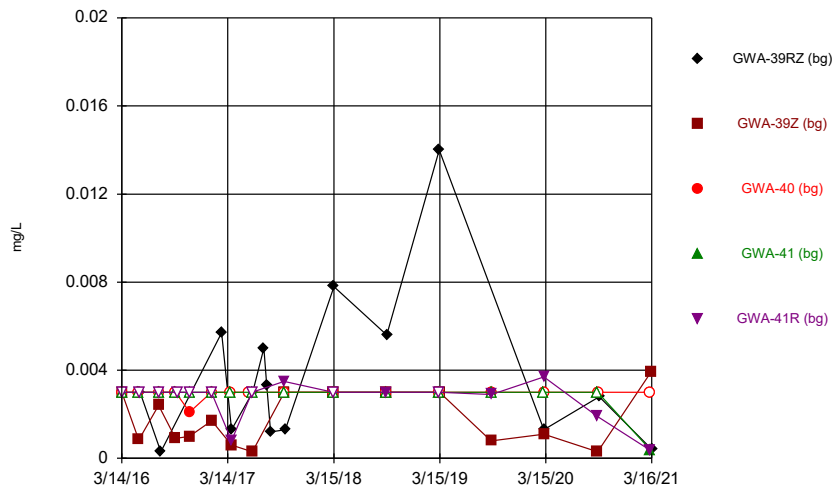
Trend Tests - Prediction Limit Exceedances - Resample Results (All)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39RZ (bg)	0.0005584	23	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-39Z (bg)	0.0009314	13	58	No	16	12.5	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-40 (bg)	-0.0005076	-36	-53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41 (bg)	-0.001564	-55	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41R (bg)	0.001767	21	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-42 (bg)	0.00006759	26	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43R (bg)	-0.0001579	-37	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-48	0.001531	40	63	No	17	5.882	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39RZ (bg)	-0.0001177	-23	-53	No	15	40	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39Z (bg)	0	-3	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-40 (bg)	0	-26	-58	No	16	75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41 (bg)	0	-3	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41R (bg)	0	-10	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-42 (bg)	0	-11	-58	No	16	93.75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43 (bg)	0	-16	-58	No	16	75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43R (bg)	-0.00009397	-22	-58	No	16	37.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWC-46R	0.0003972	34	63	No	17	17.65	n/a	n/a	0.01	NP
pH (SU)	GWA-39RZ (bg)	-0.003632	-7	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39Z (bg)	-0.01862	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWA-40 (bg)	-0.03578	-30	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41 (bg)	0.01645	6	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-42 (bg)	0	0	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43R (bg)	-0.01551	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-48	-0.04109	-58	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39RZ (bg)	-0.3795	-9	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1043	29	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41 (bg)	0.1662	15	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41R (bg)	0.8058	35	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-42 (bg)	0.05143	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3994	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-48	0.01919	6	68	No	18	5.556	n/a	n/a	0.01	NP

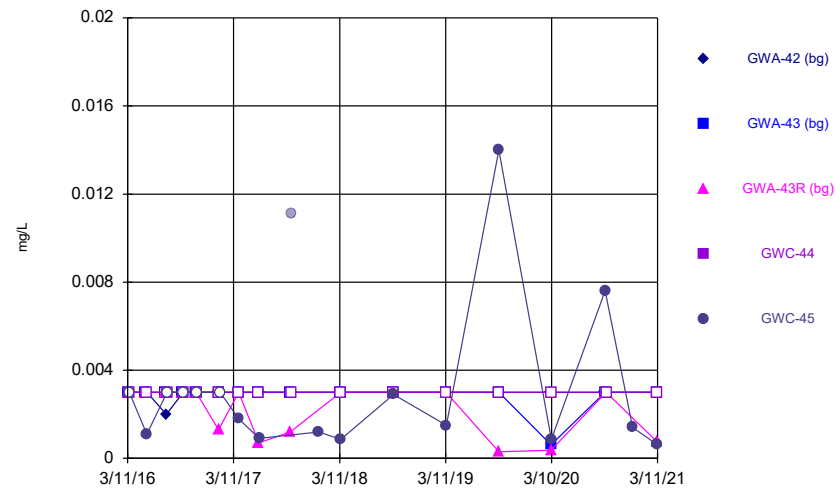
FIGURE A.

Time Series



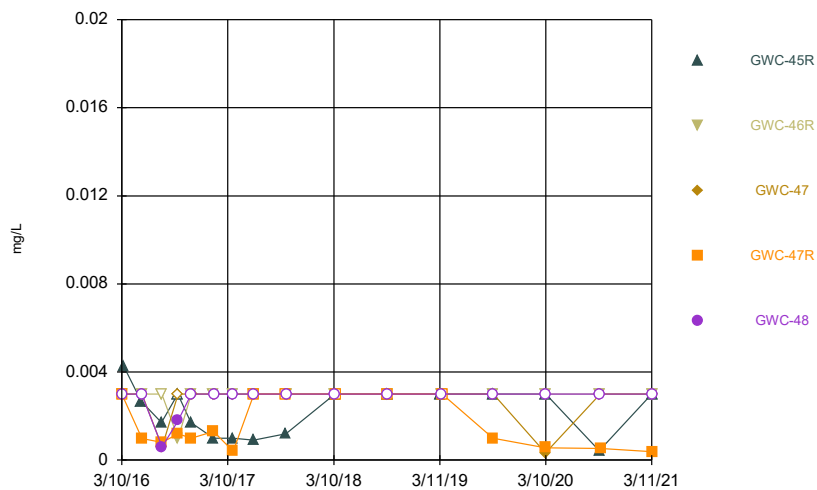
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



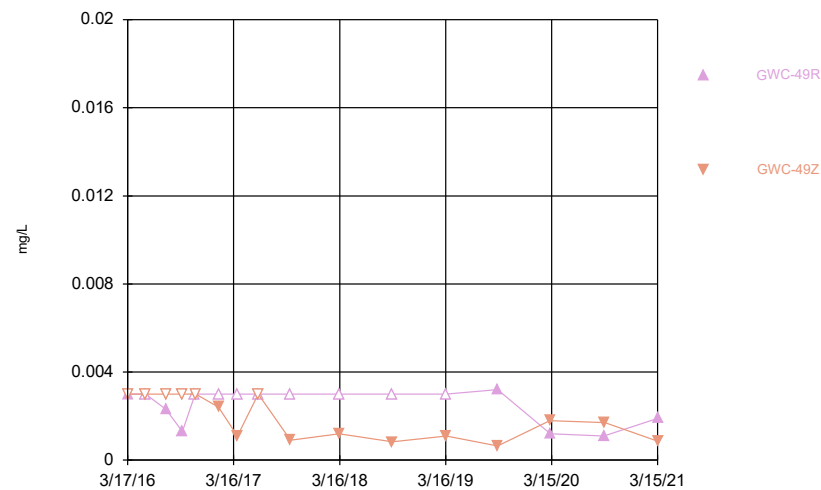
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



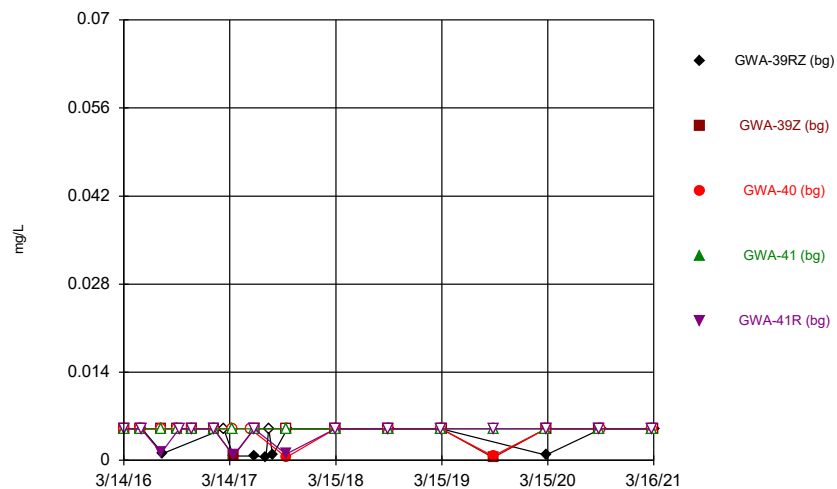
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



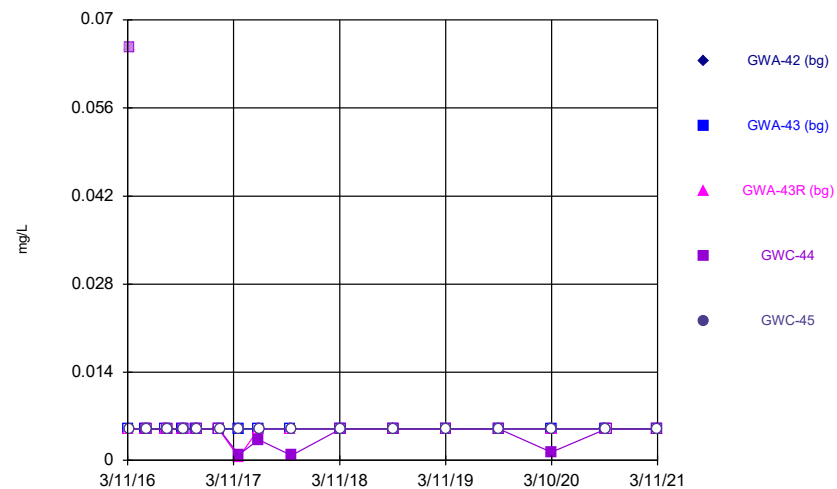
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Time Series



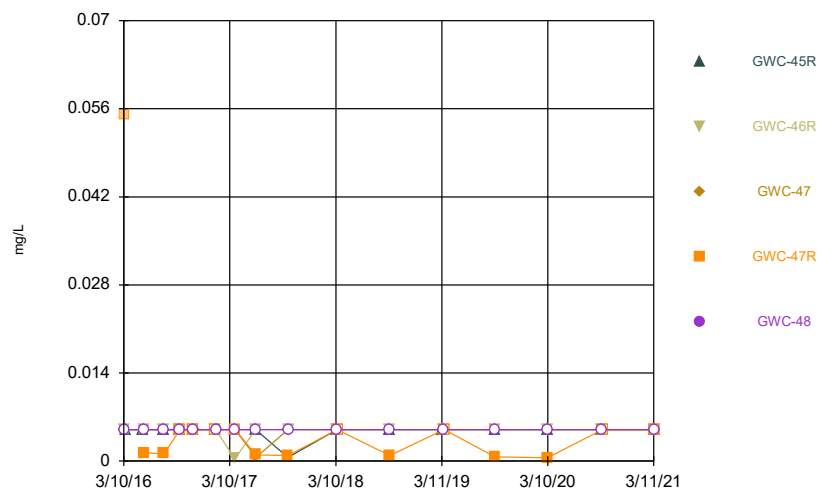
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



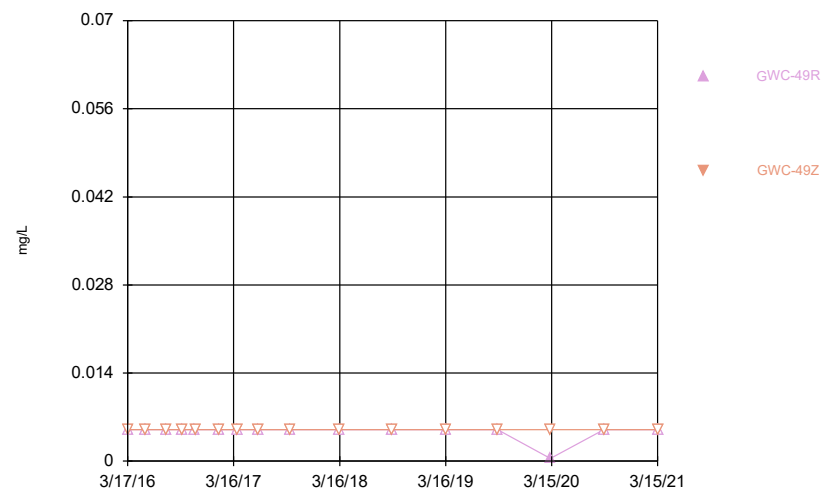
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Time Series



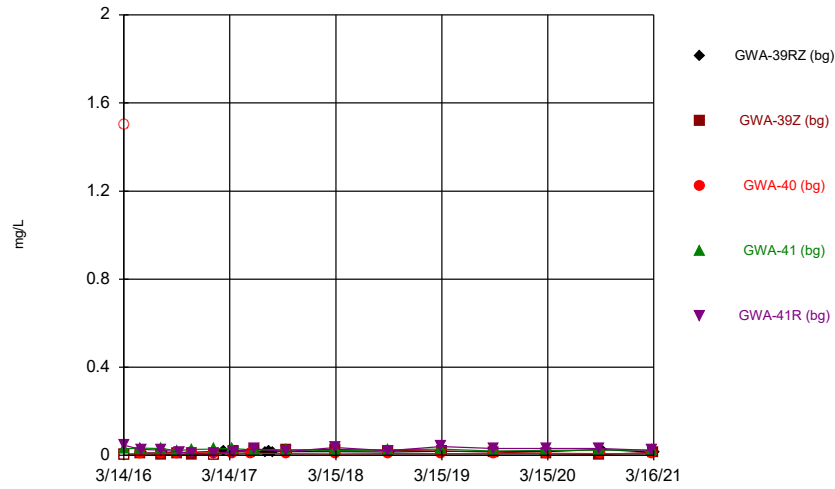
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Time Series



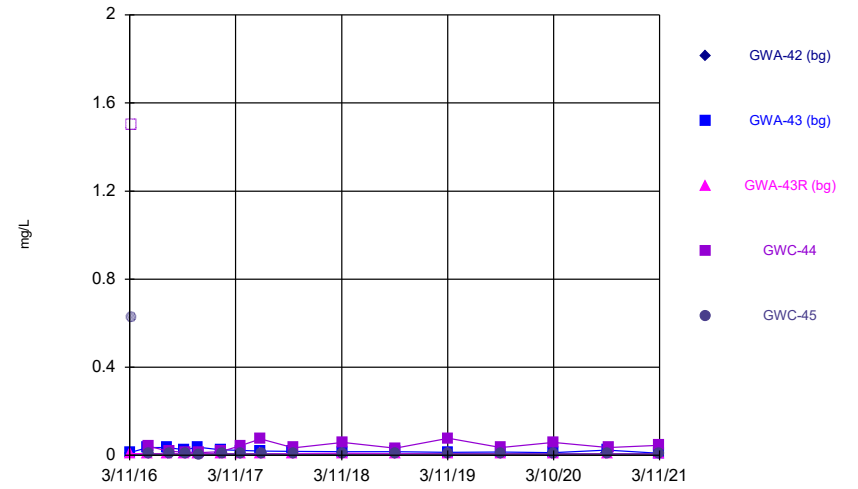
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Time Series



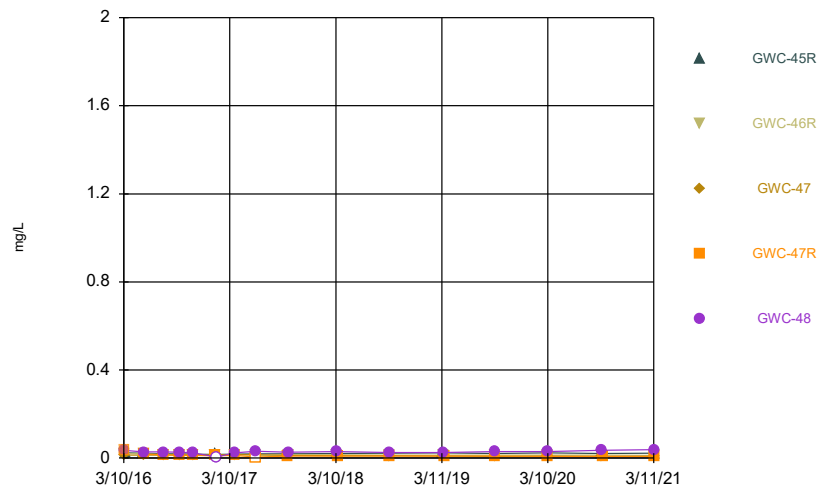
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Time Series



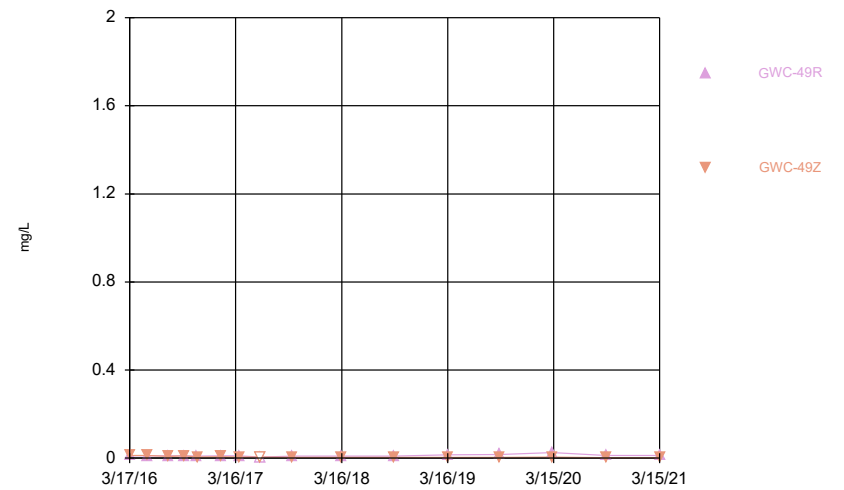
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



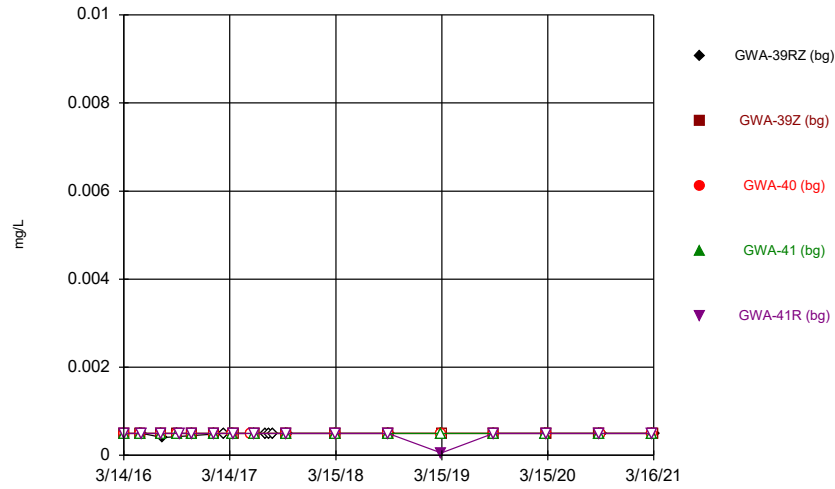
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



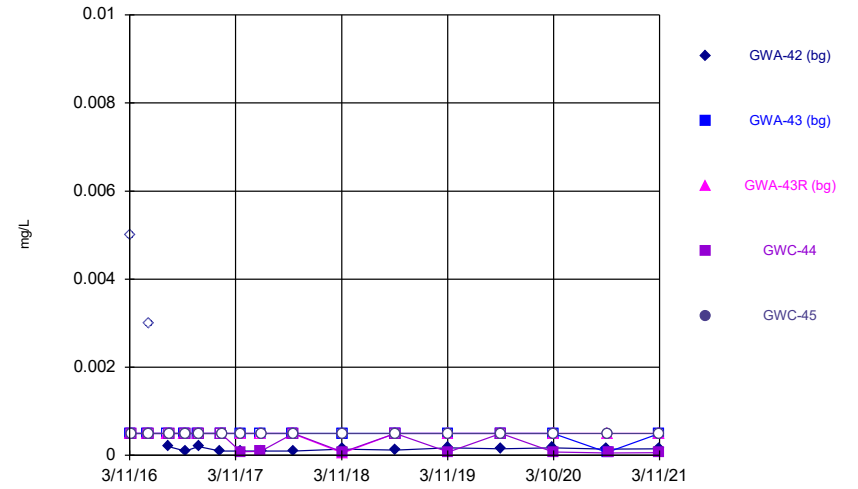
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



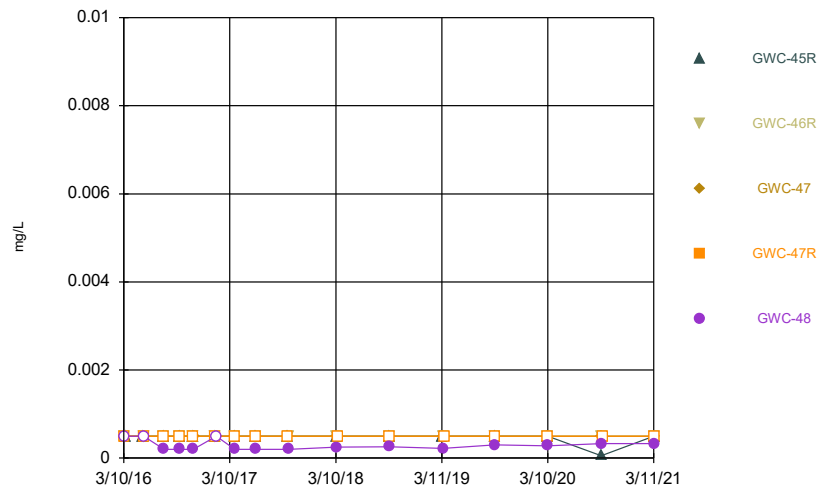
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



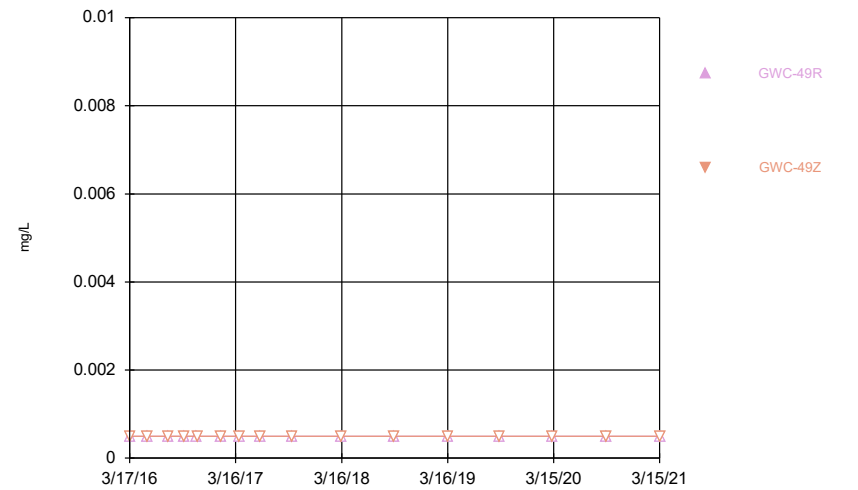
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Time Series



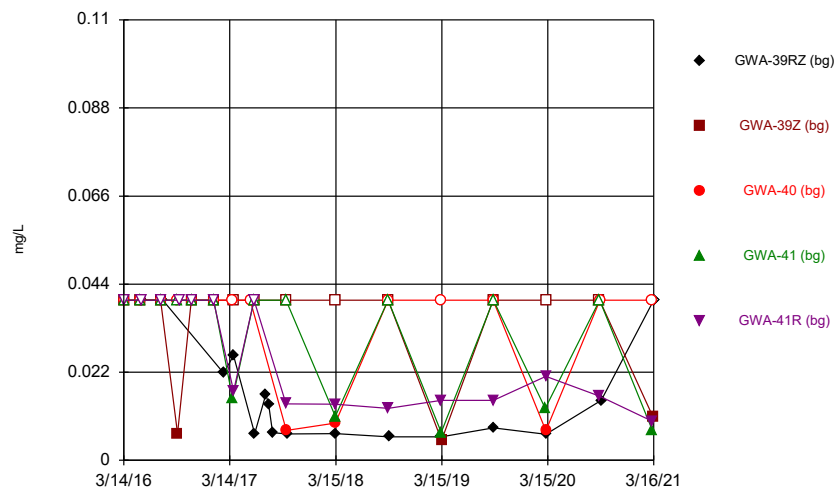
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



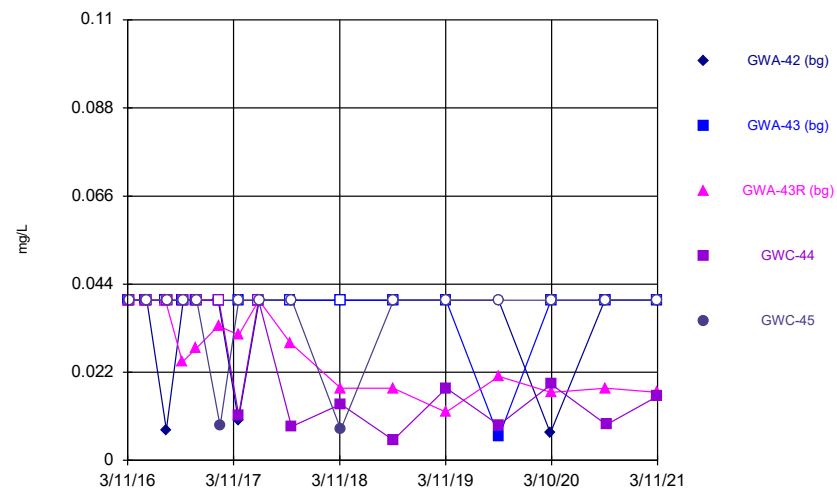
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Time Series



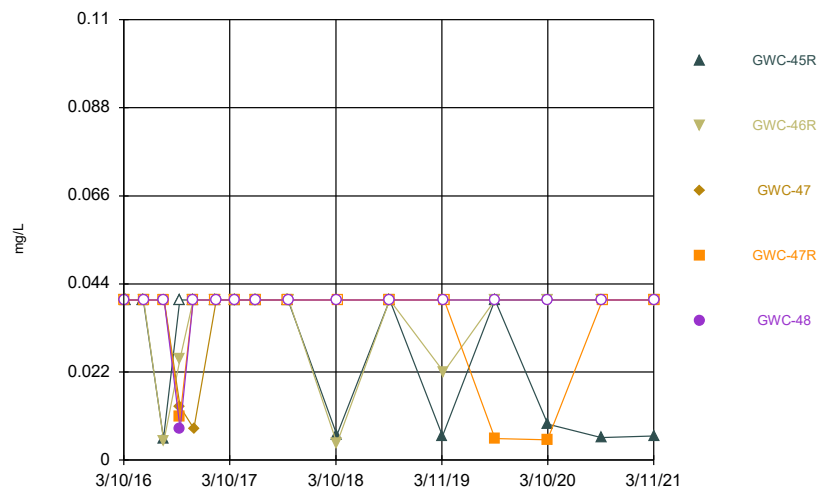
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Time Series



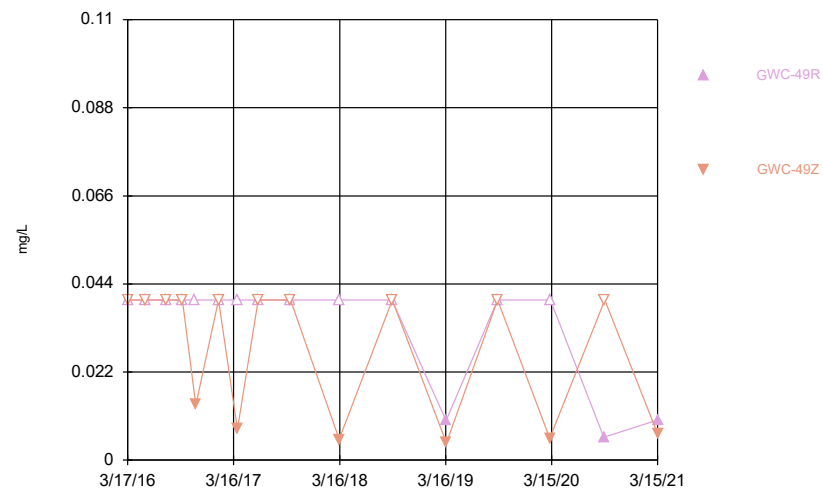
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



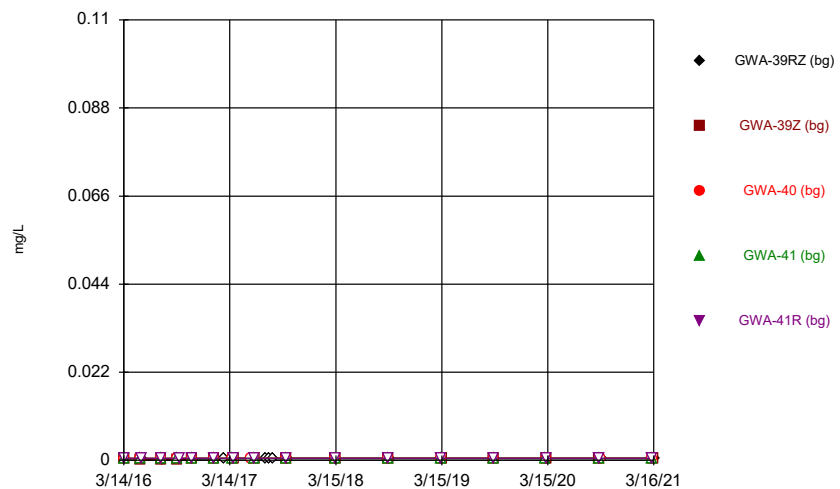
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Time Series



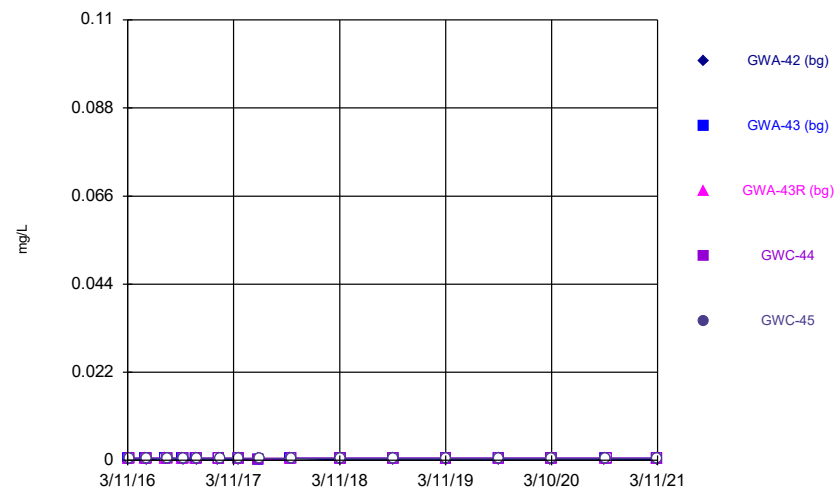
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



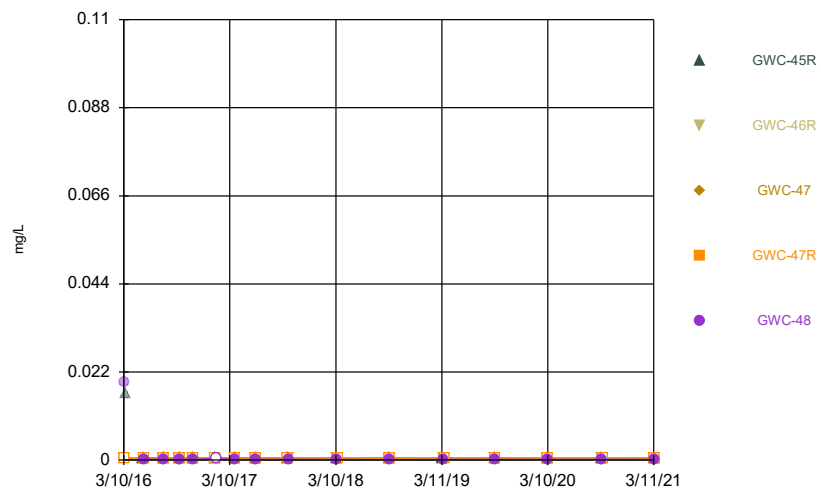
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



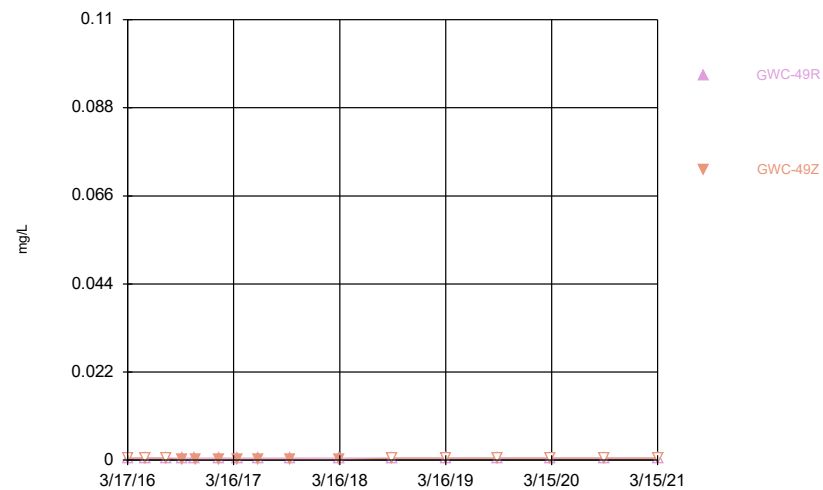
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Time Series



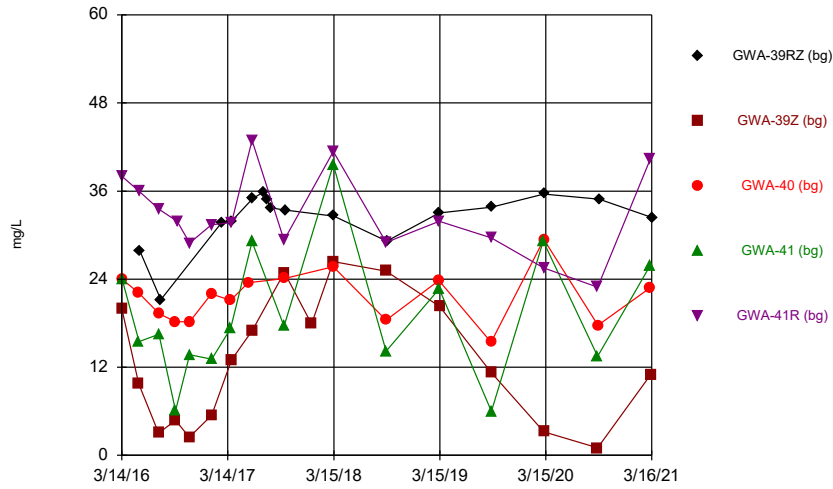
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Time Series



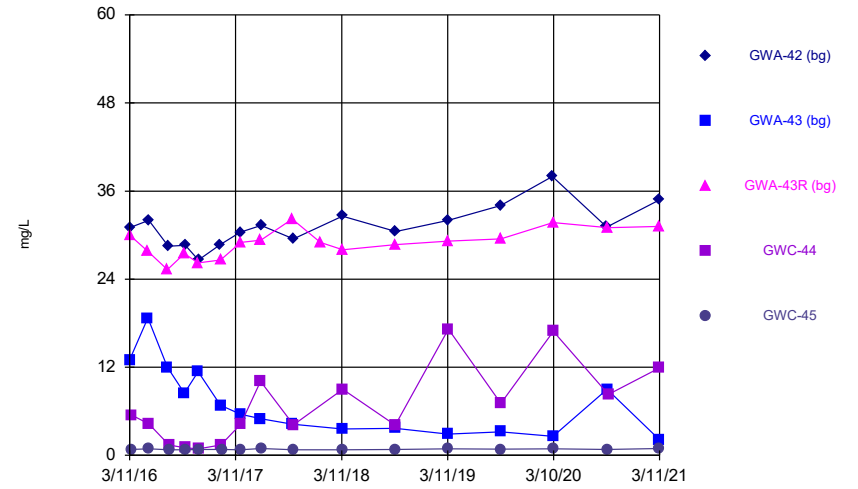
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



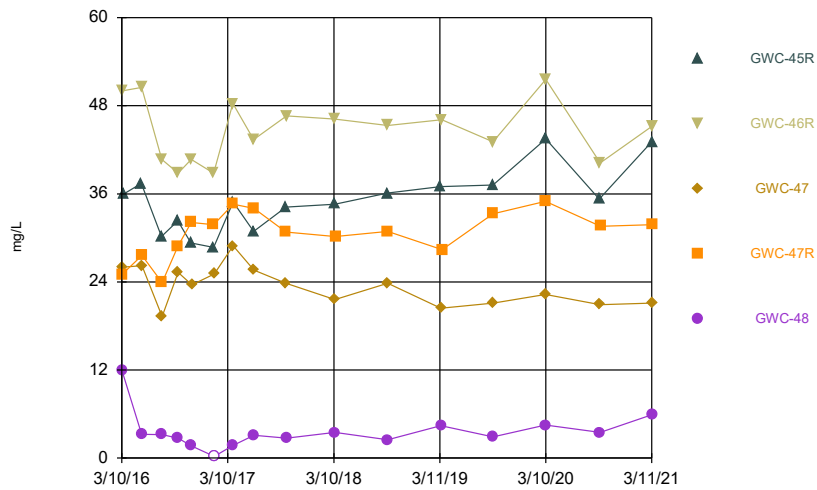
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



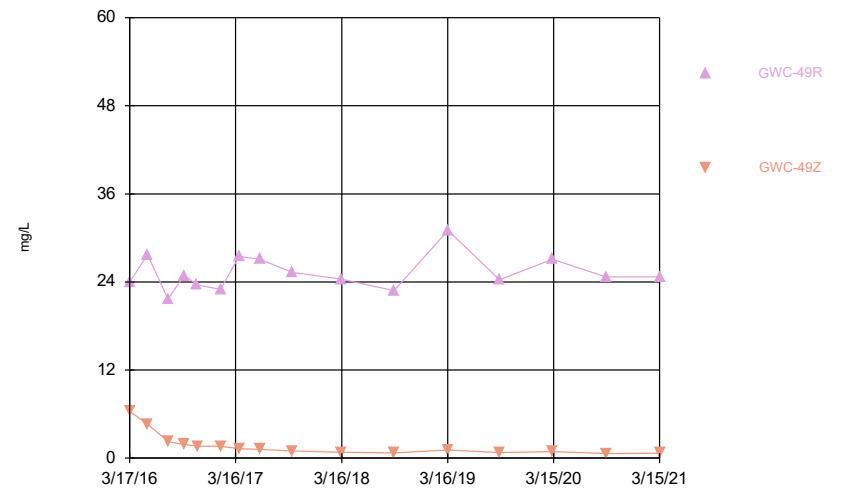
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



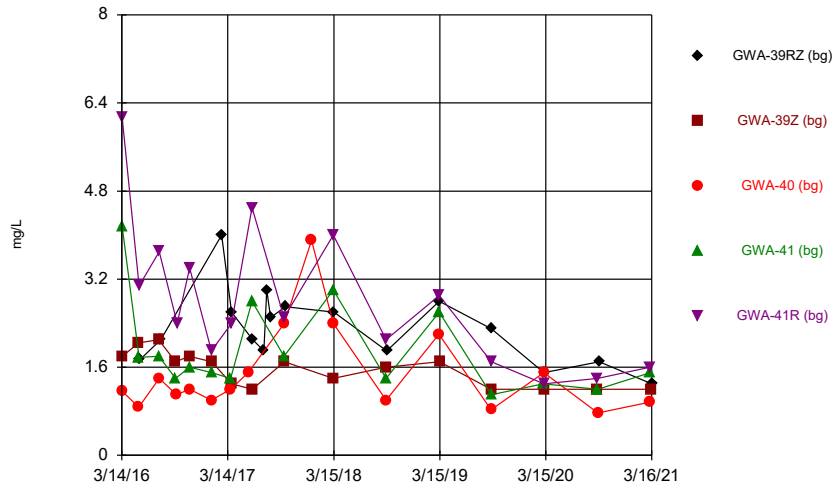
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Time Series



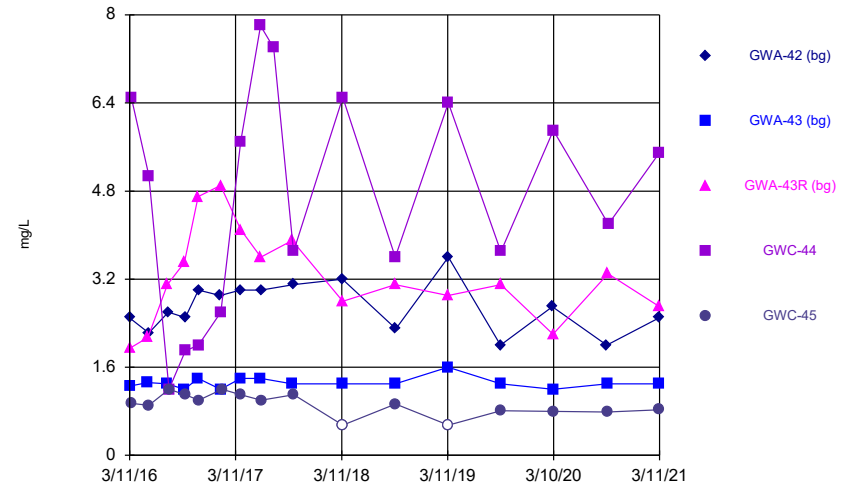
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



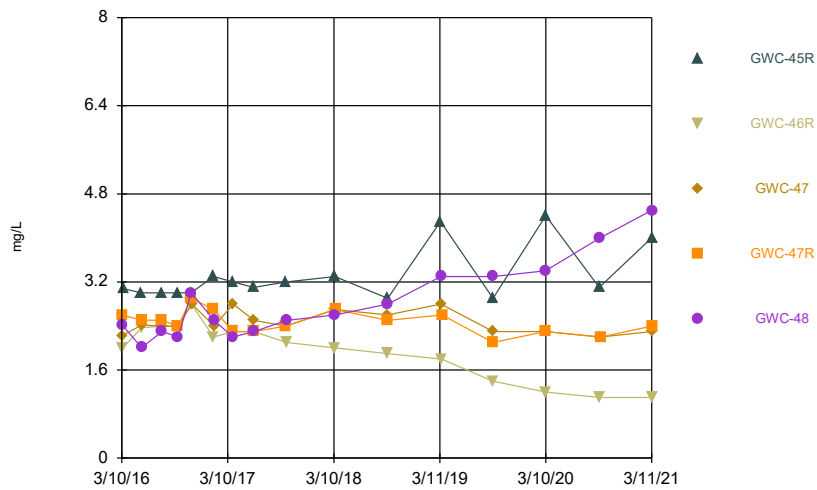
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



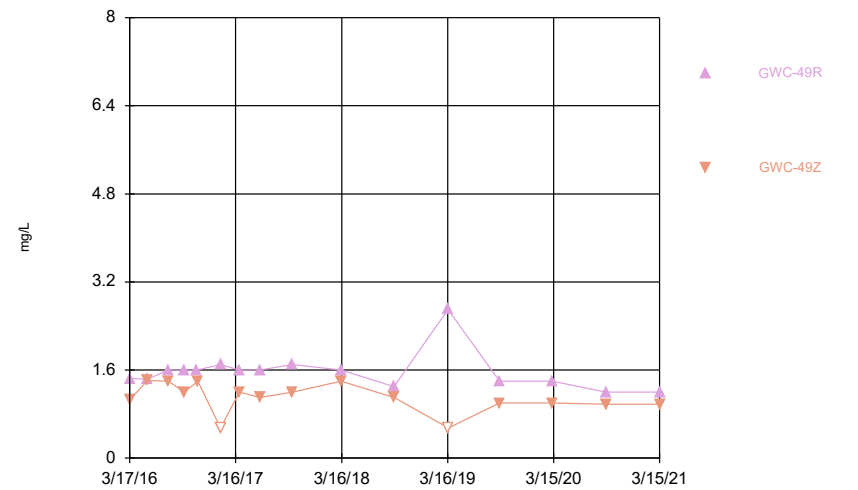
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



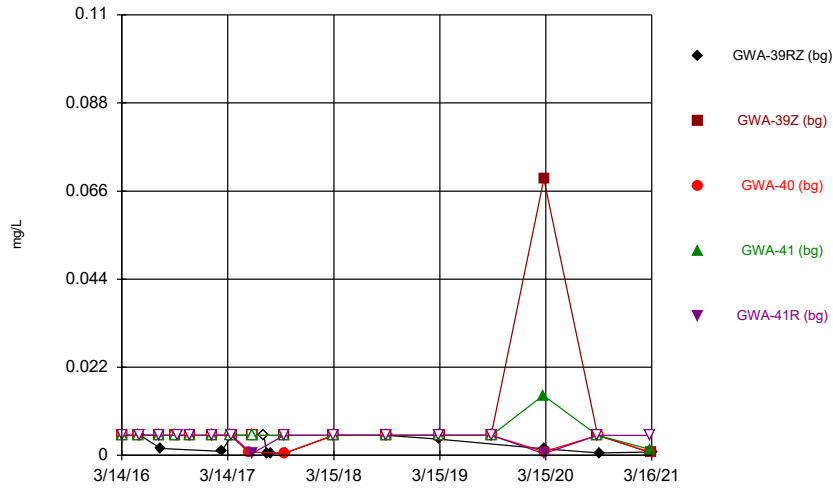
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



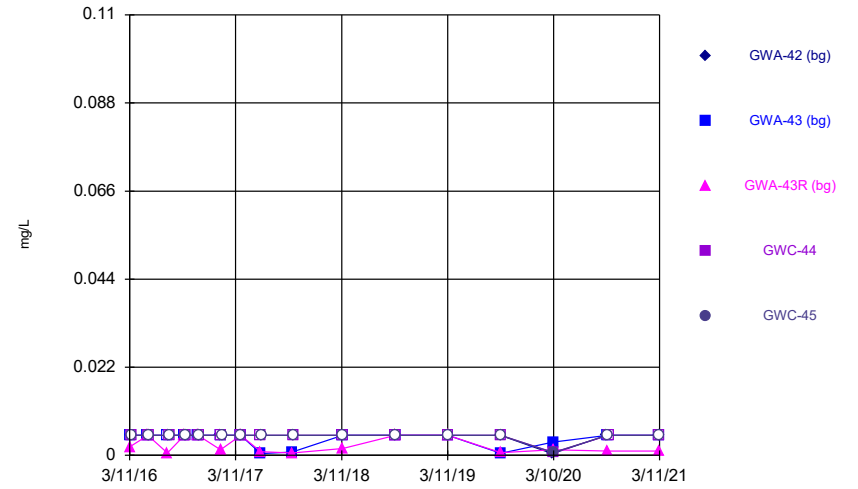
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



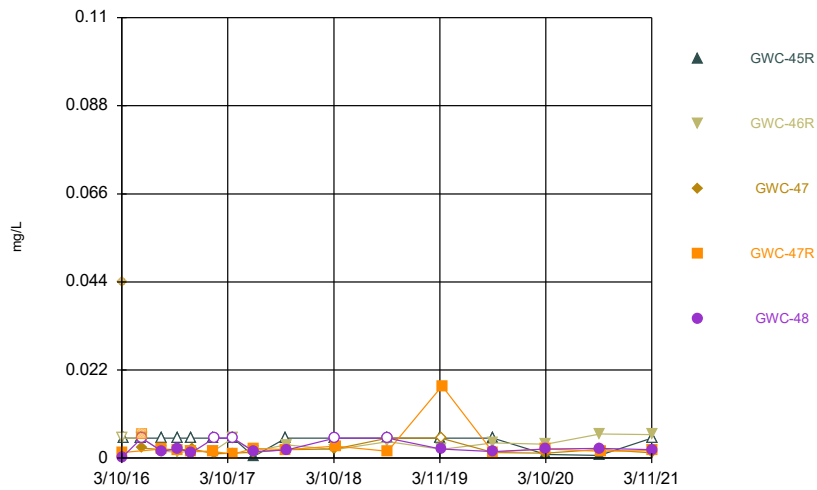
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



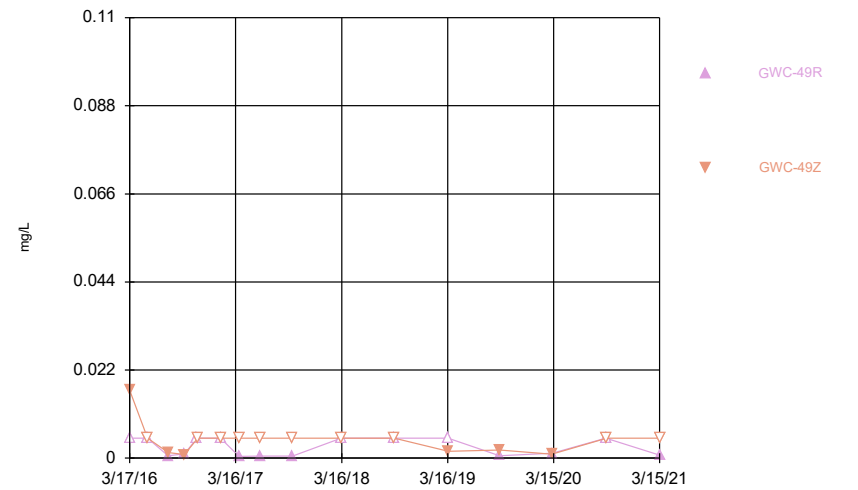
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



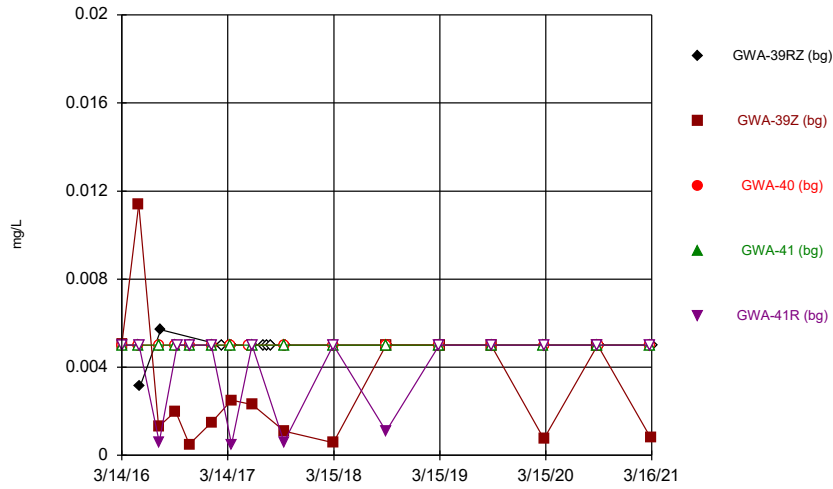
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



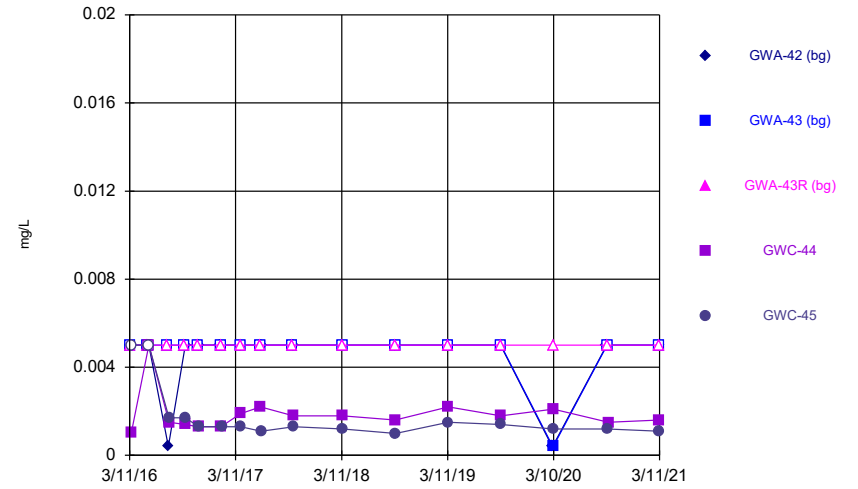
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Time Series



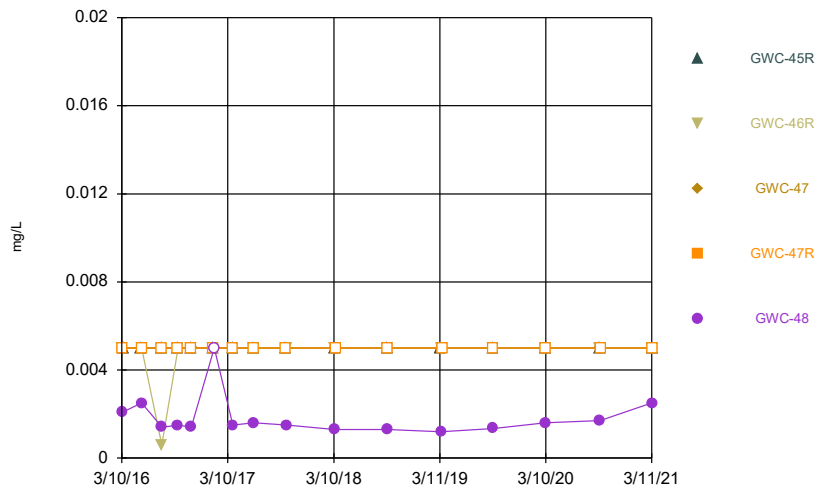
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



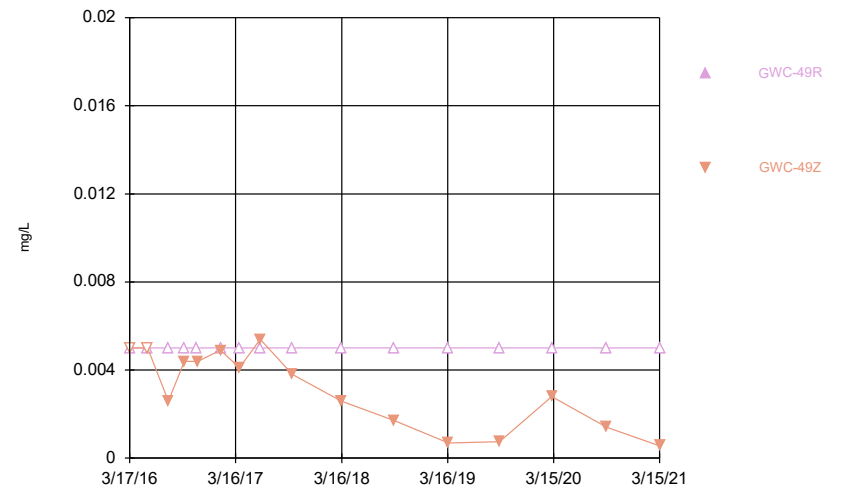
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Time Series



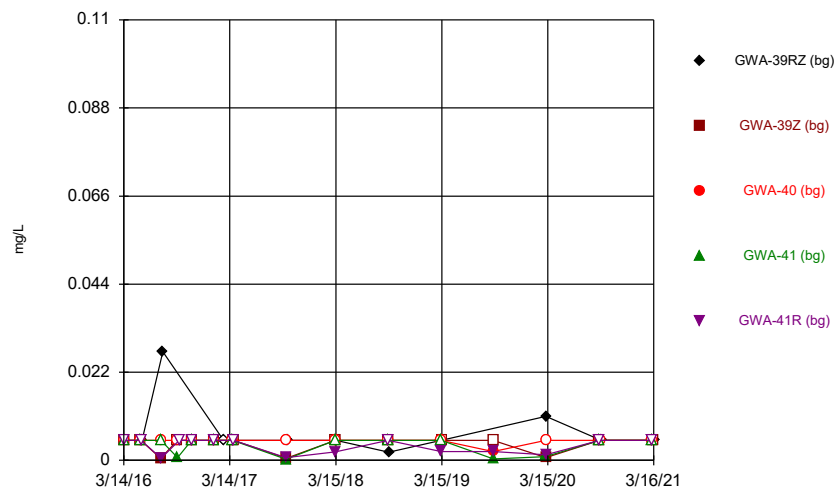
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Time Series



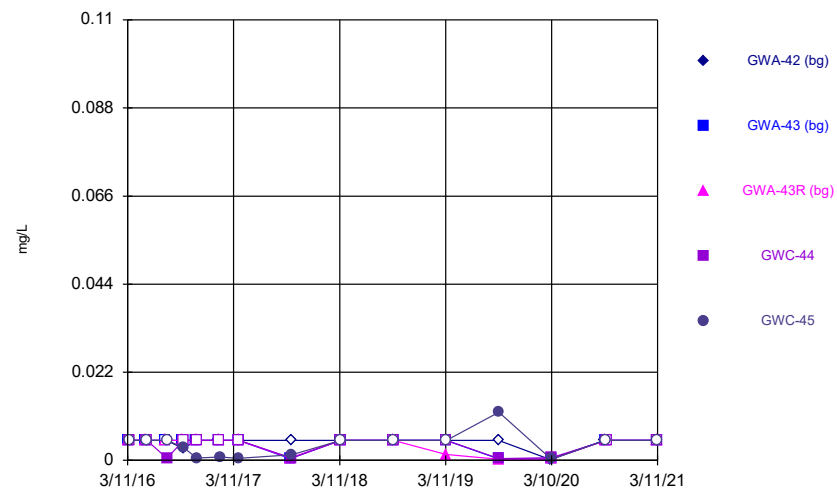
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Time Series



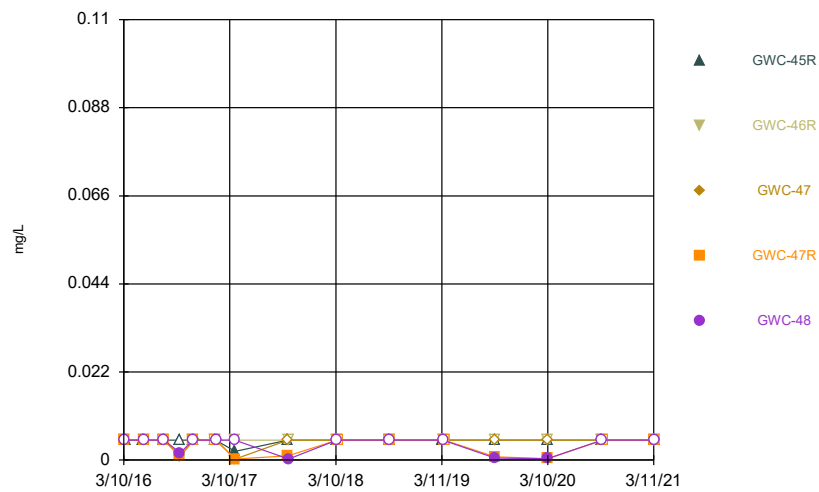
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



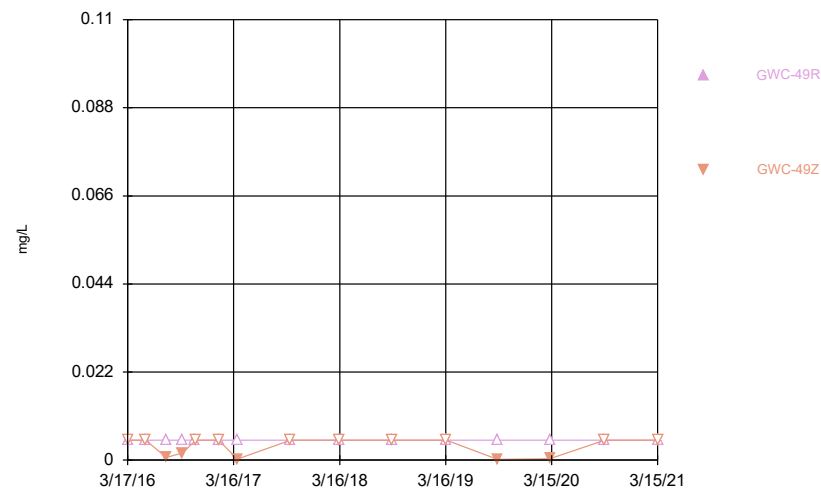
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Time Series



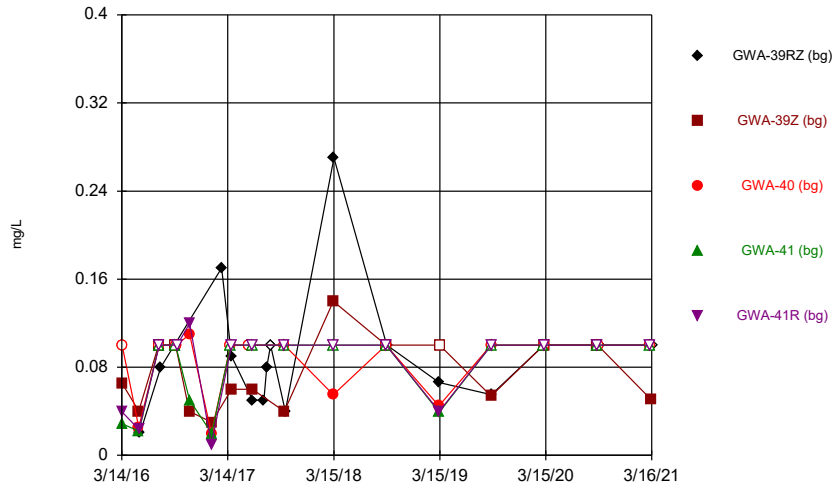
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Time Series



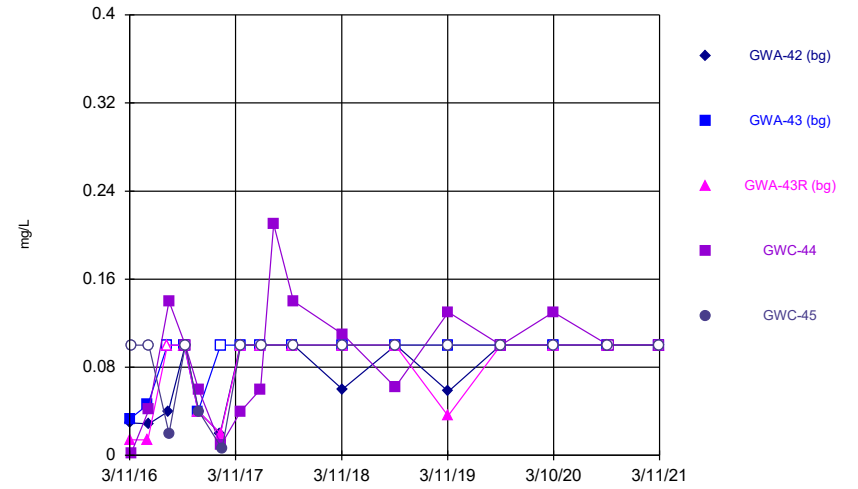
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Time Series



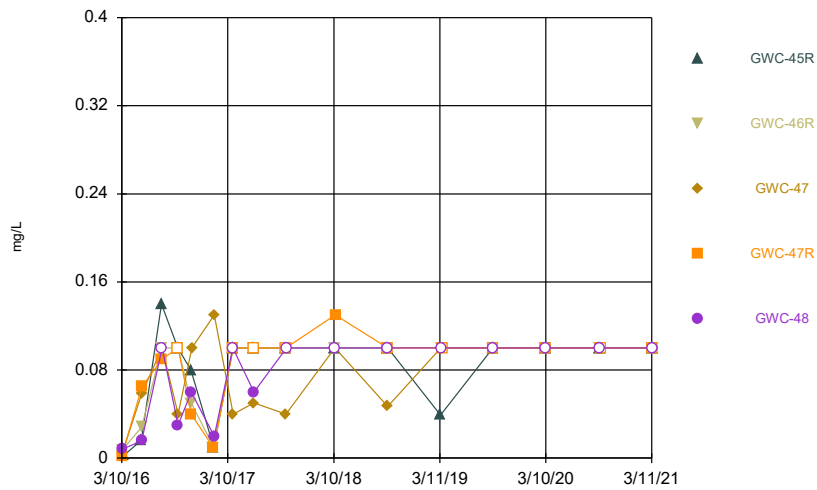
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Time Series



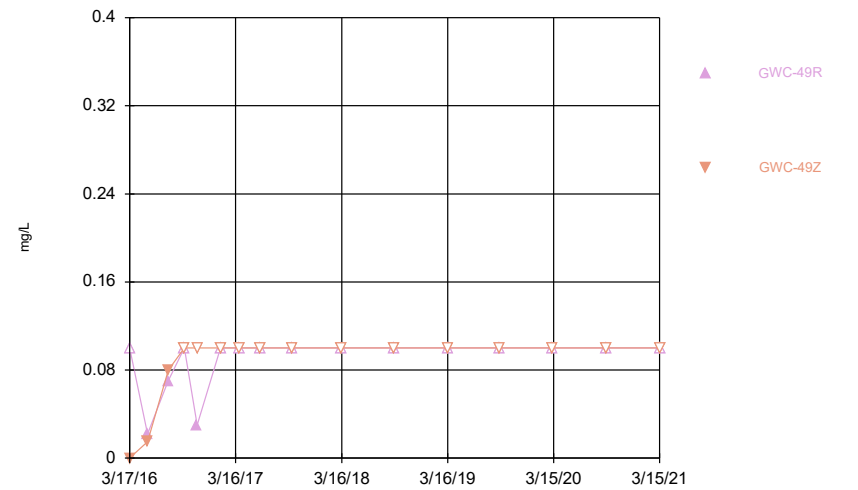
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Time Series



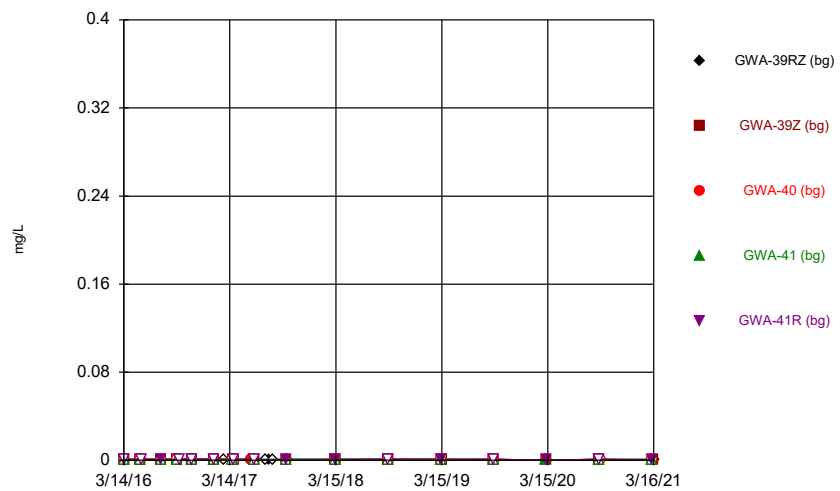
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Time Series



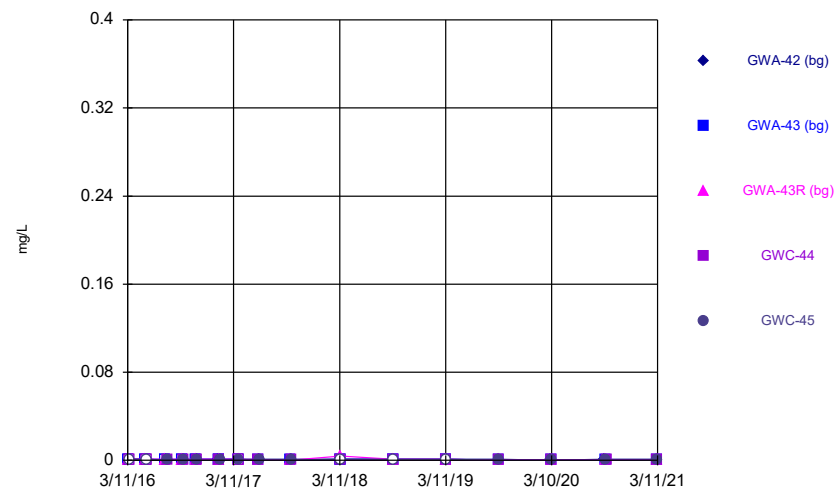
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Time Series



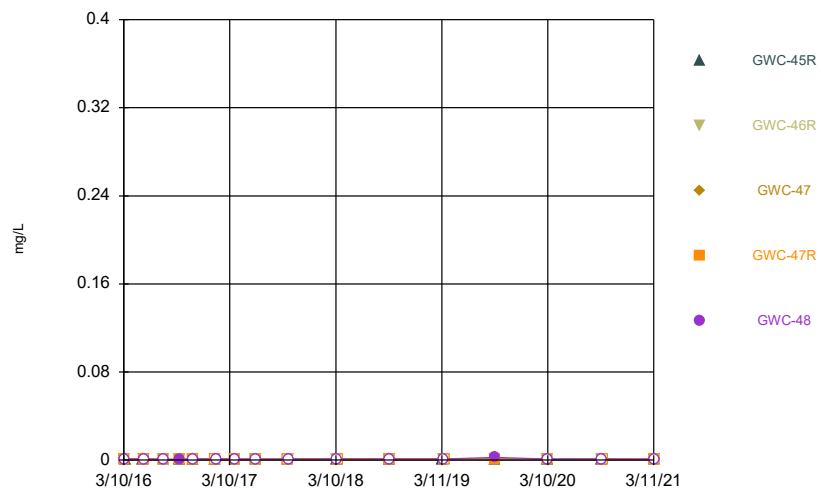
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



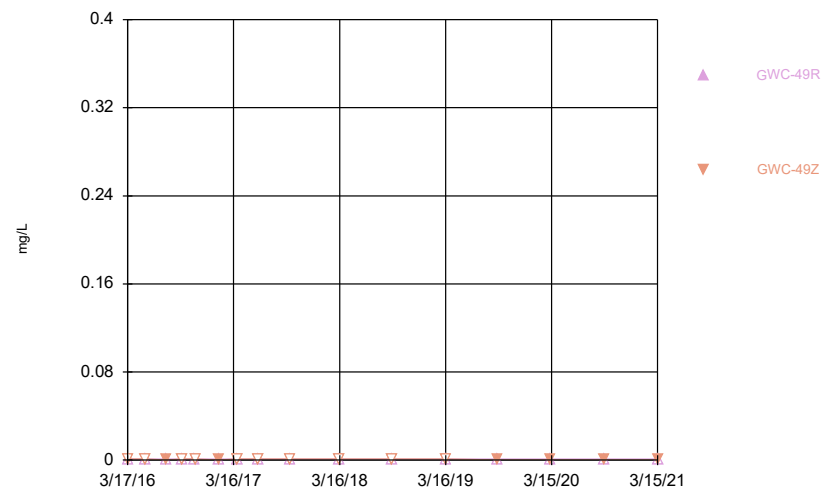
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



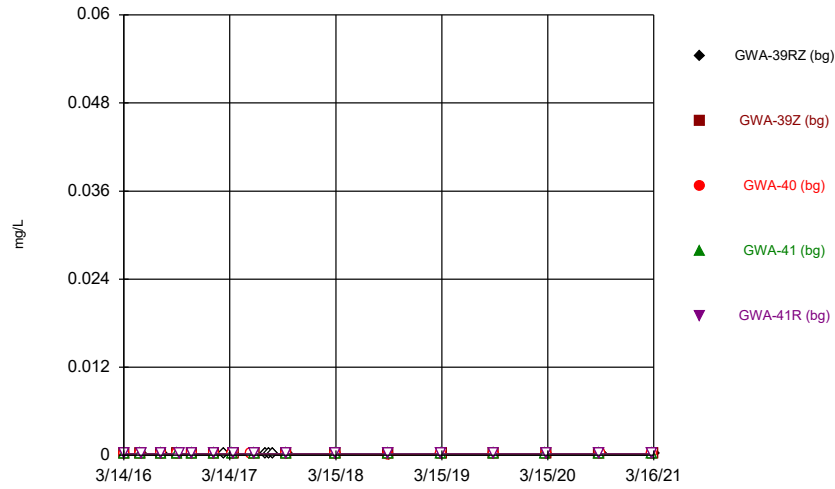
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Time Series



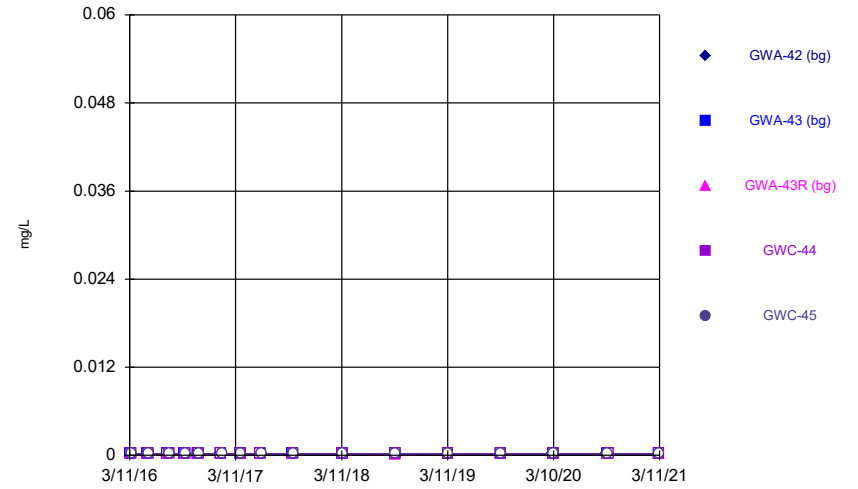
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Time Series



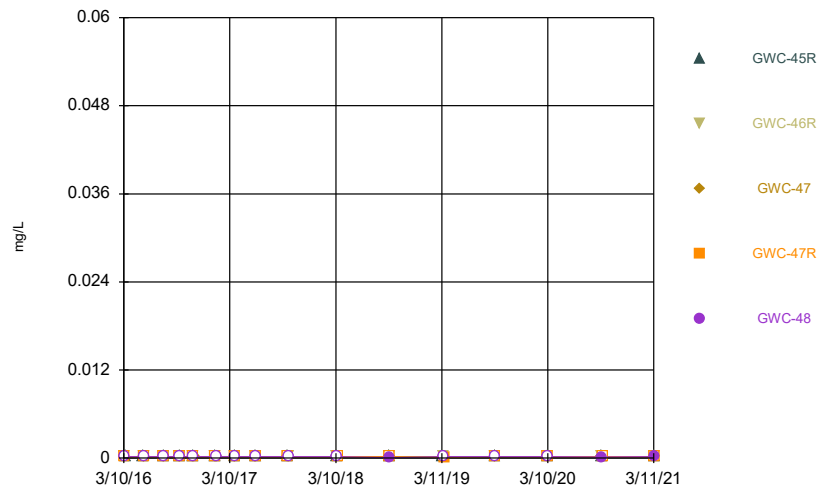
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



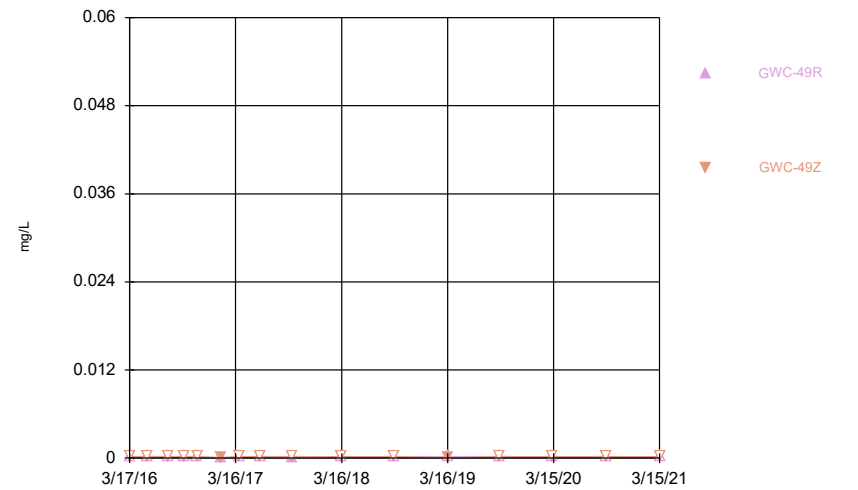
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



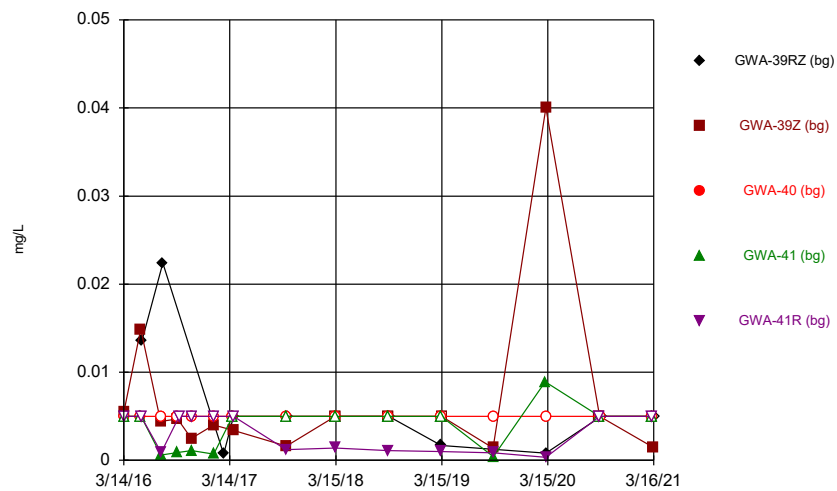
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



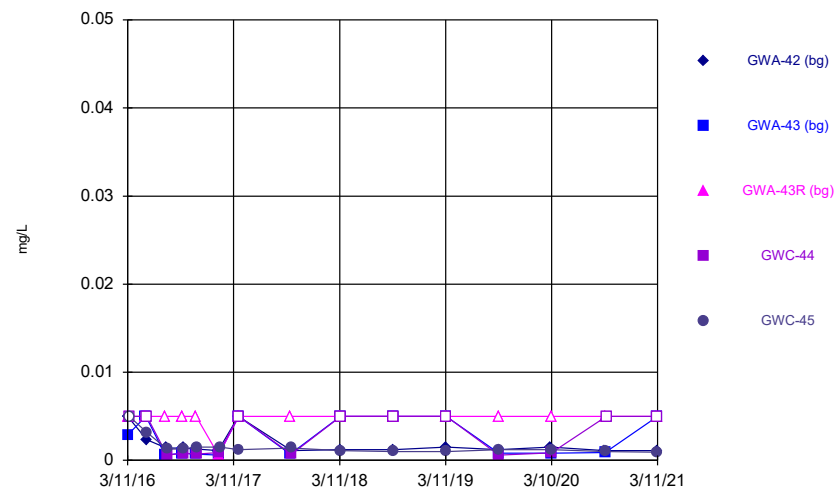
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



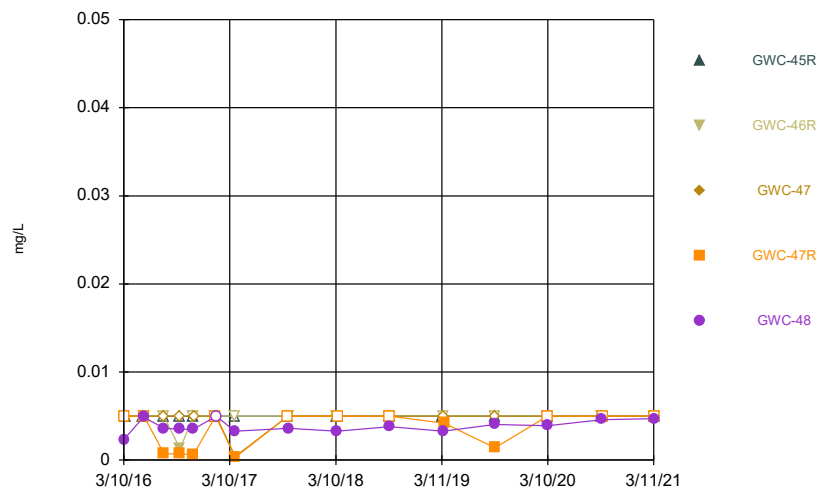
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



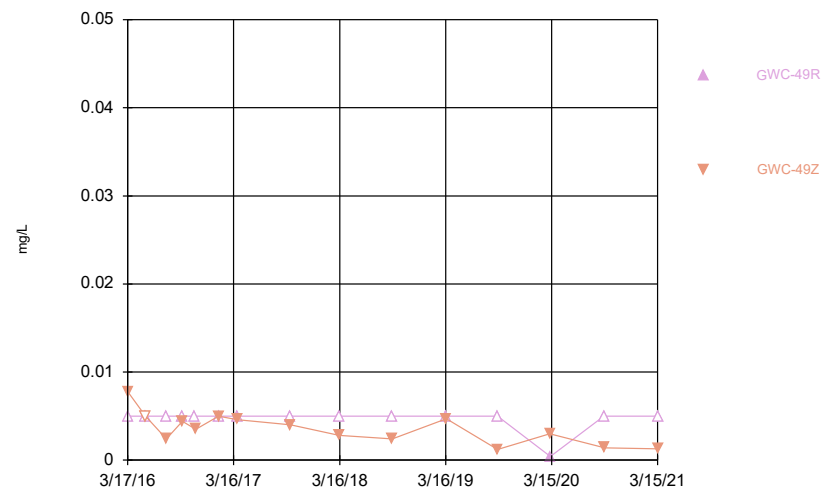
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



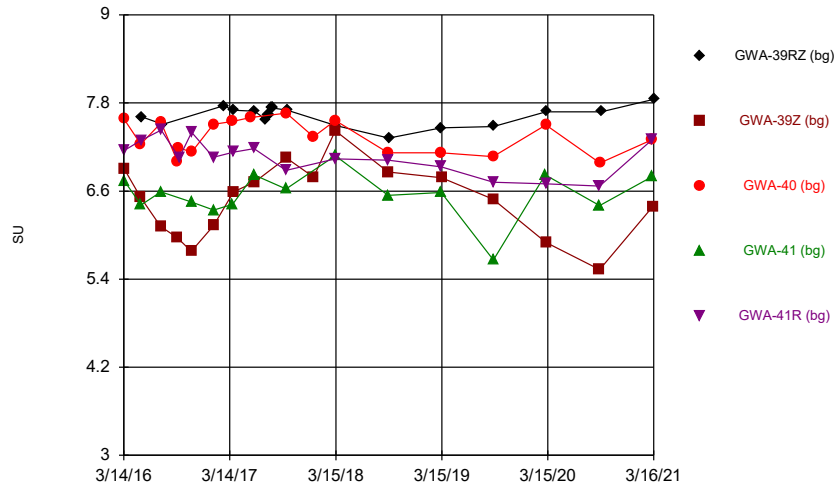
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



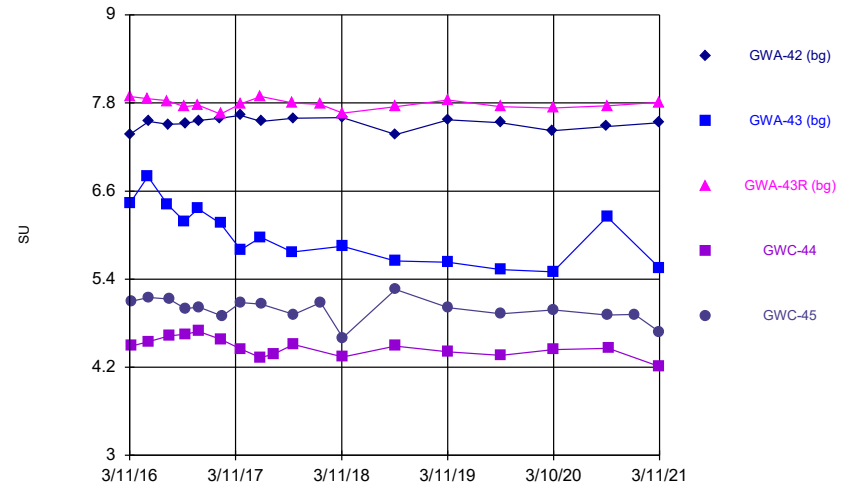
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



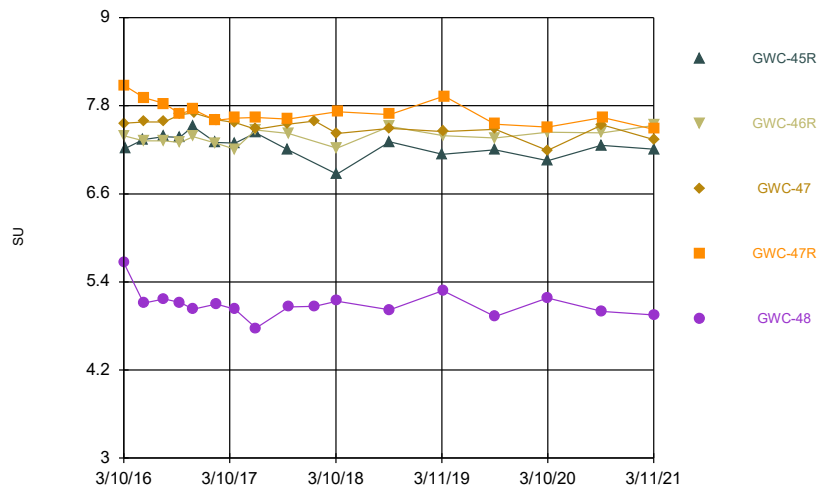
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



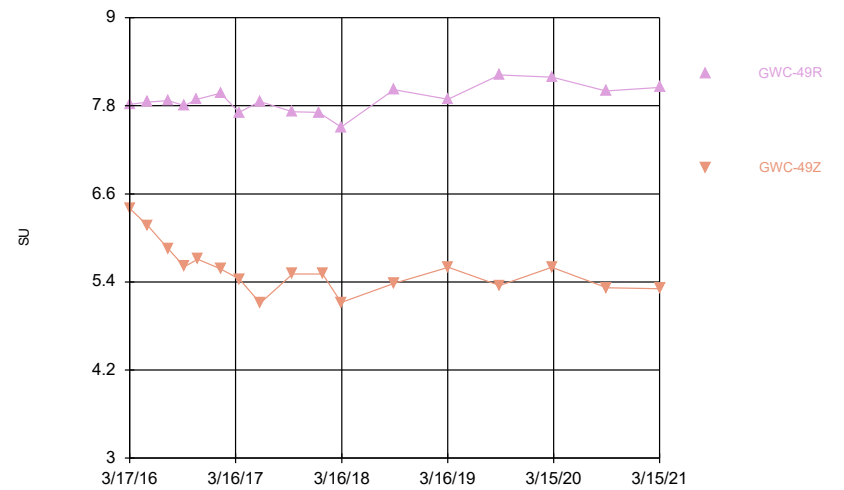
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



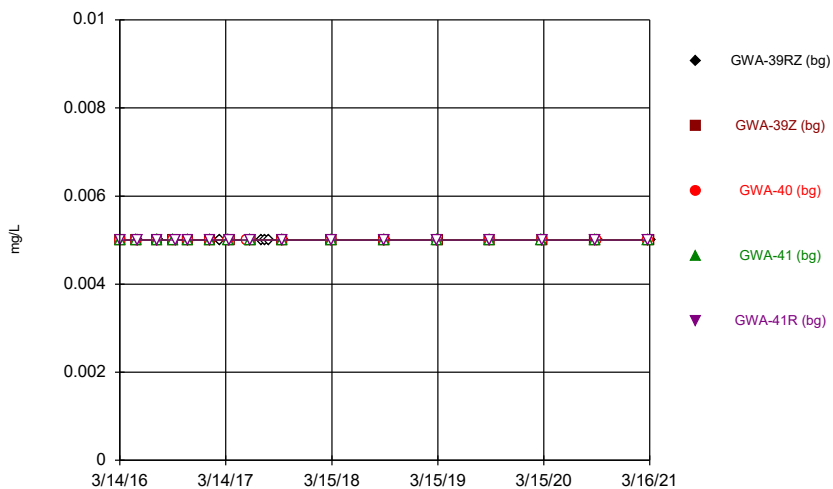
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



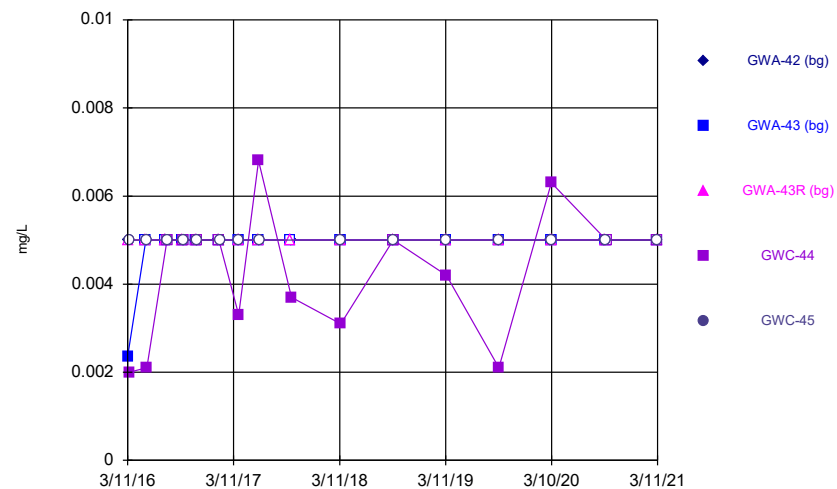
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



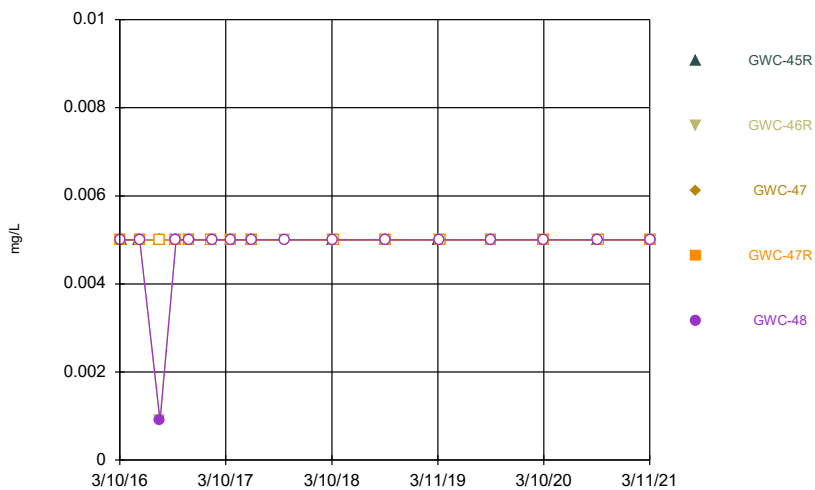
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Time Series



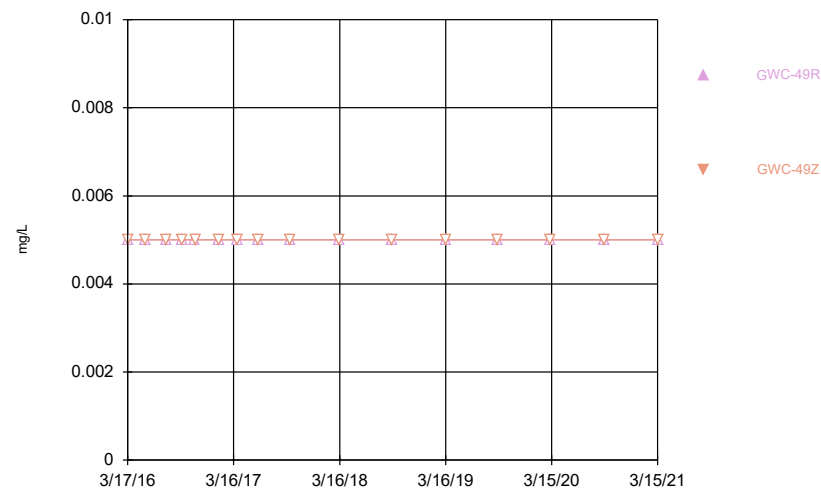
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Time Series



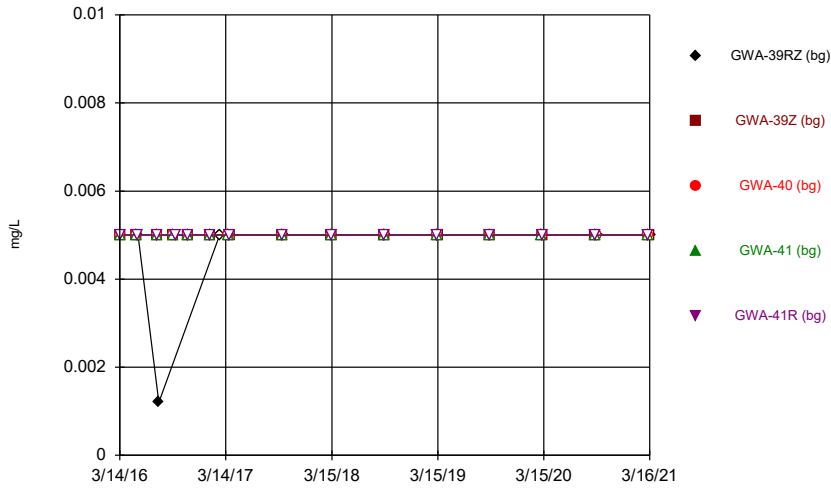
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Time Series



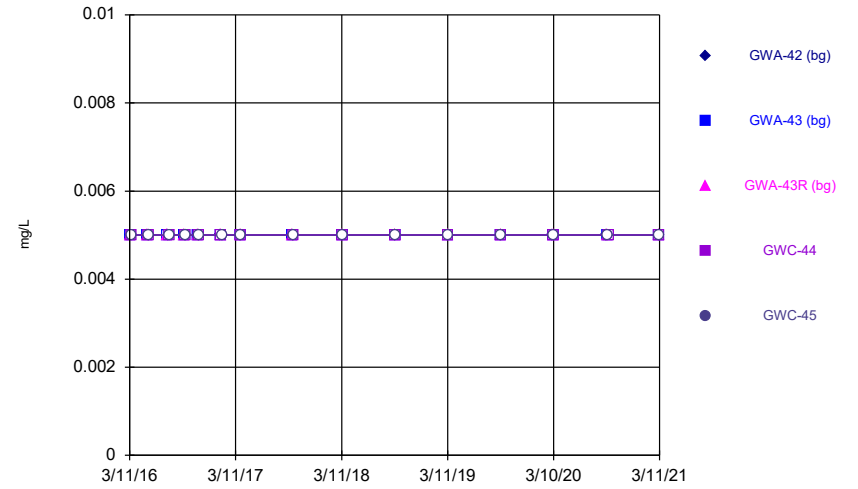
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



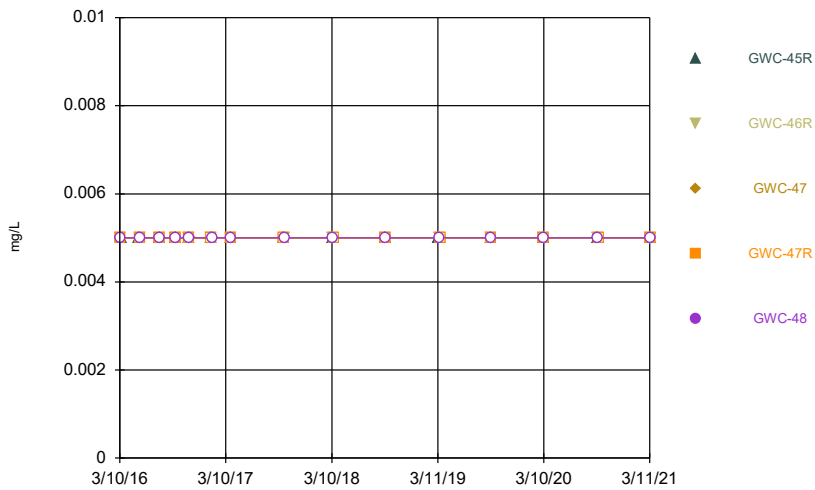
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



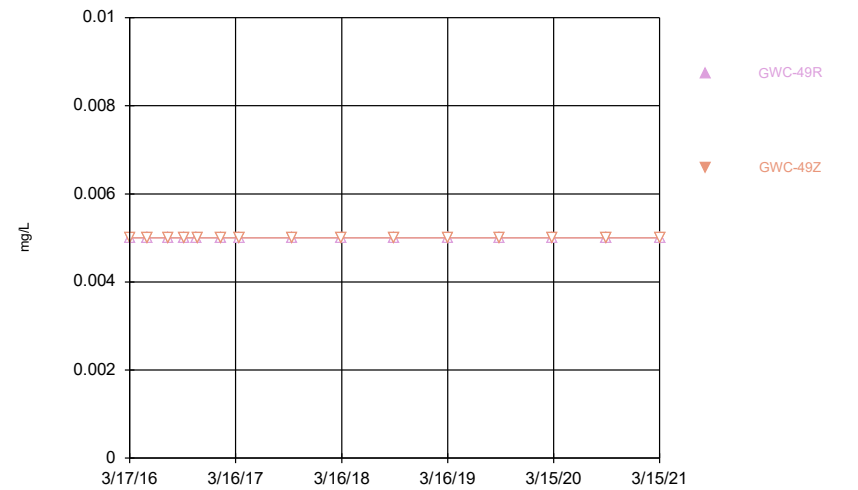
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



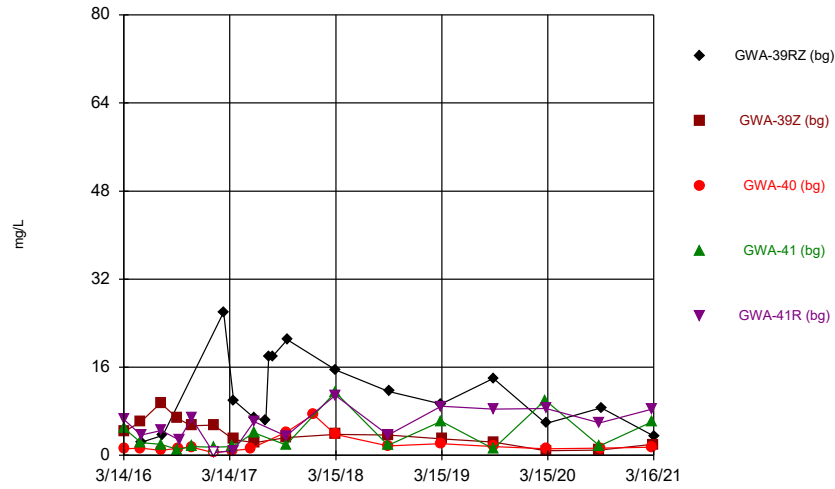
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Time Series



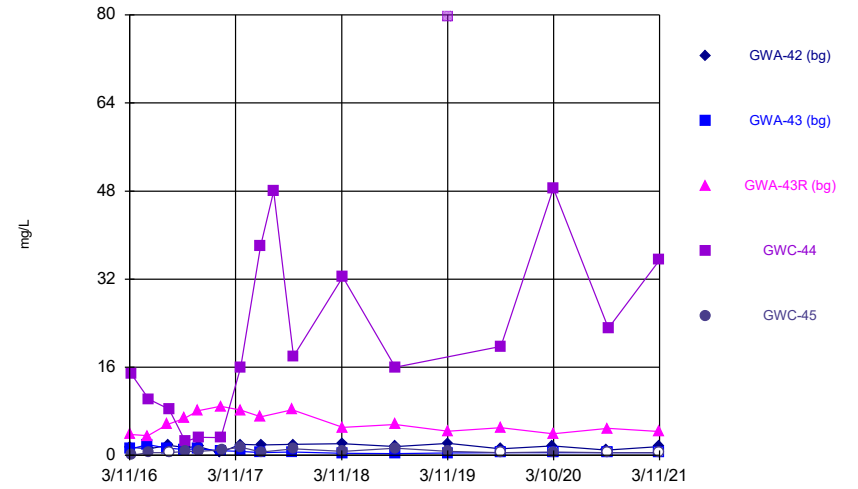
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Time Series



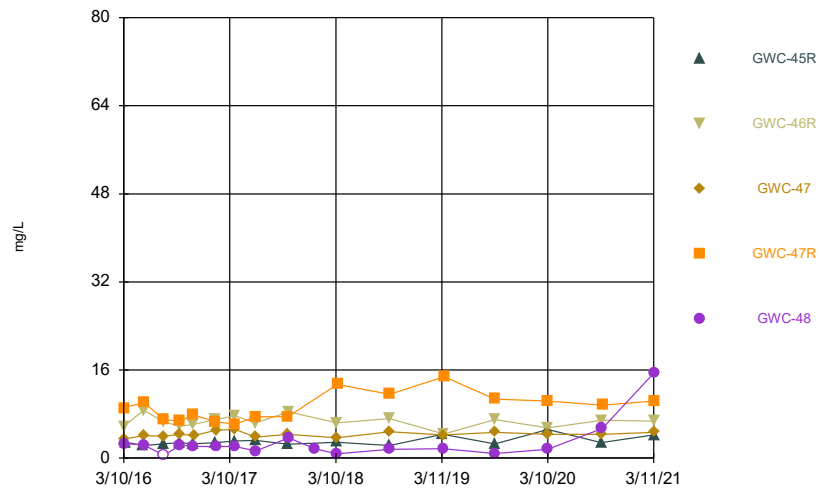
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Time Series



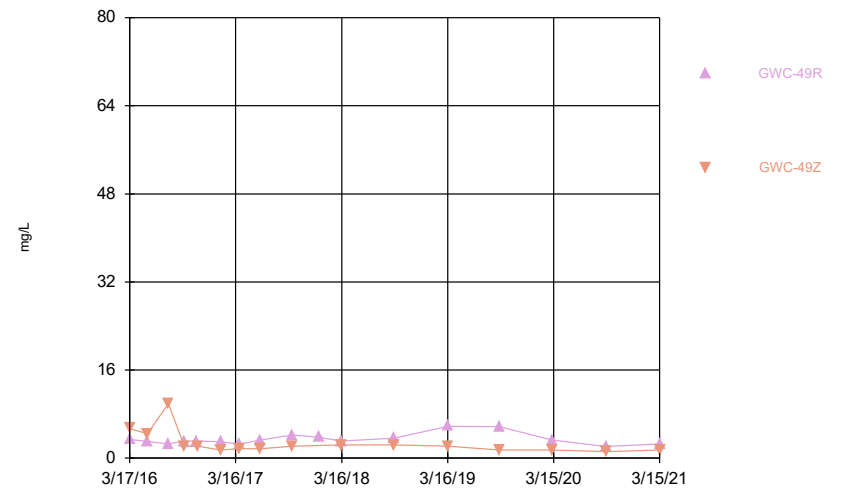
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



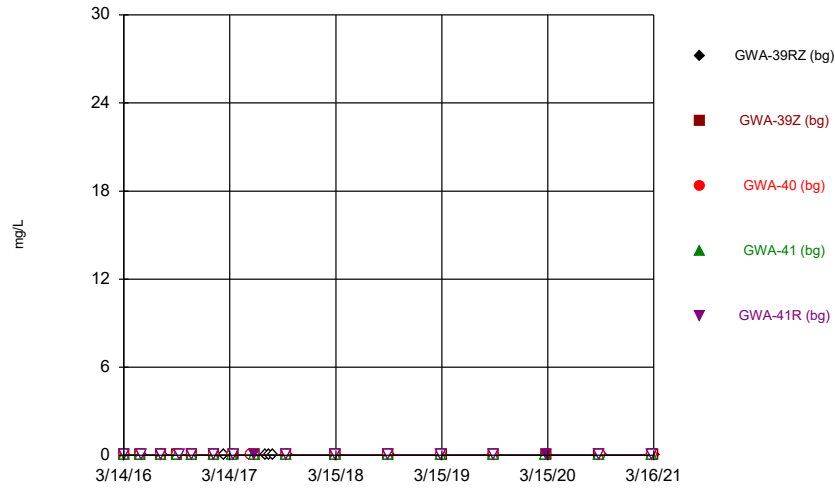
Constituent: Sulfate Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



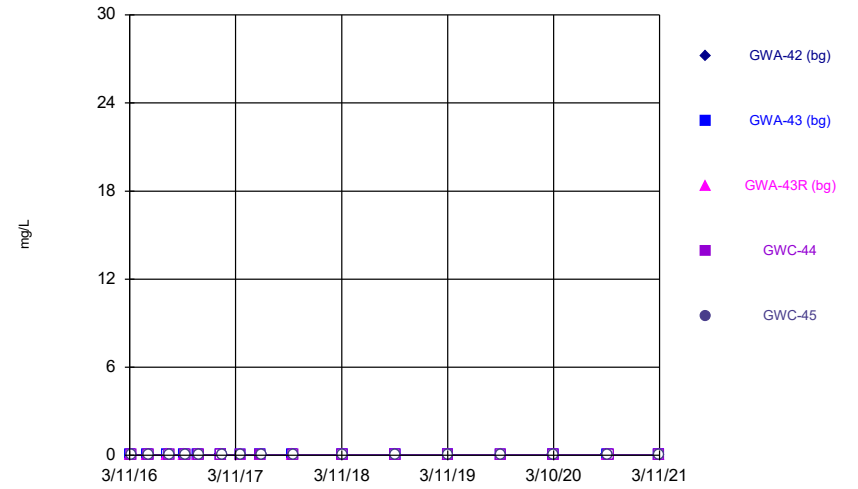
Constituent: Sulfate Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



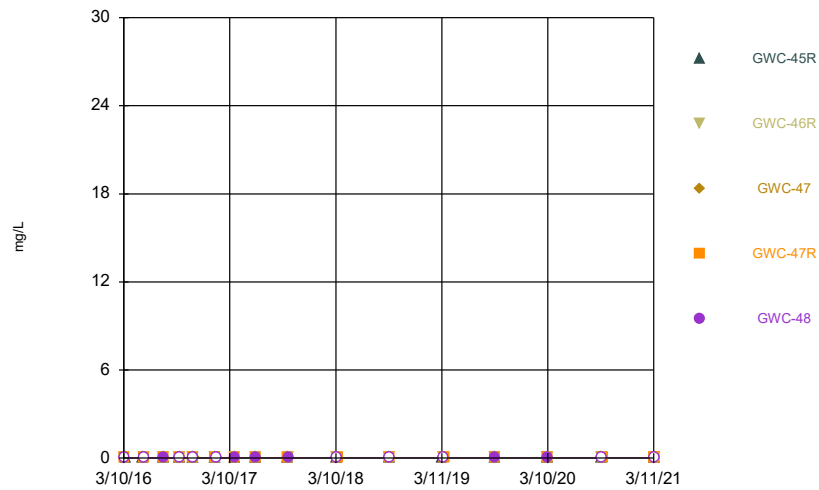
Constituent: Thallium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



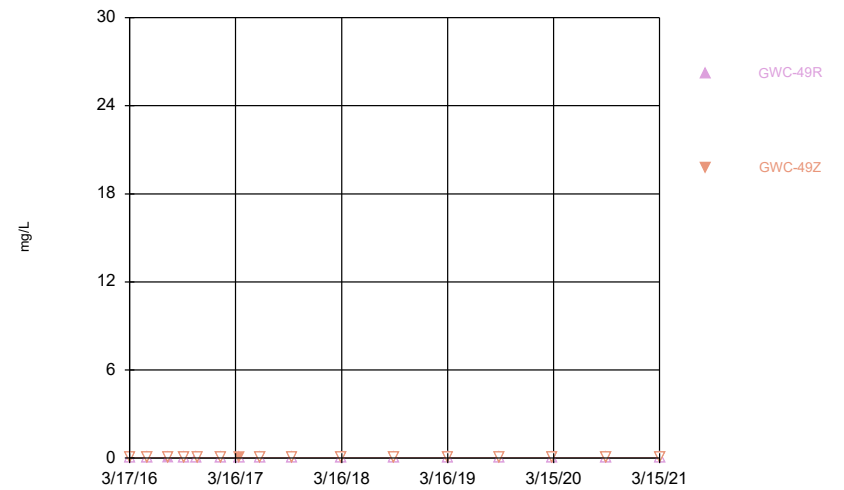
Constituent: Thallium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



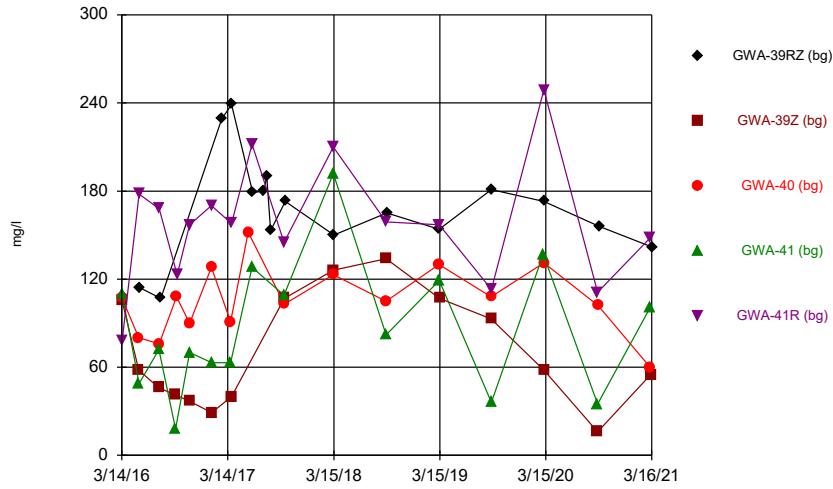
Constituent: Thallium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



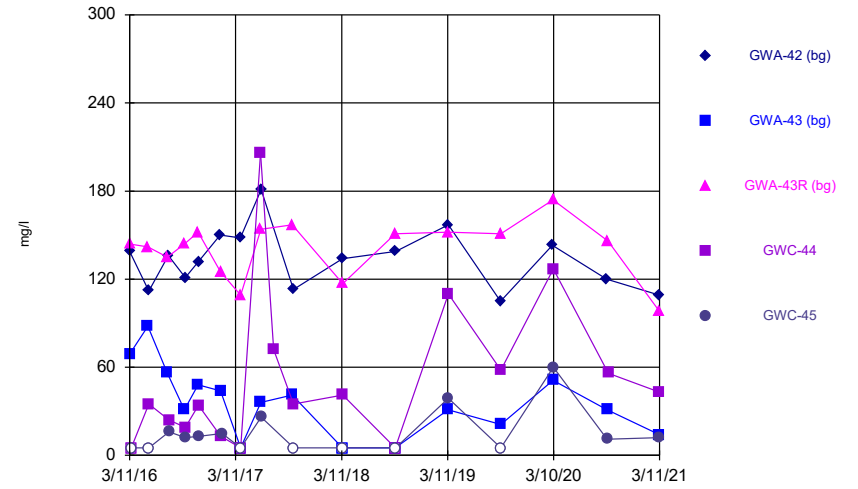
Constituent: Thallium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



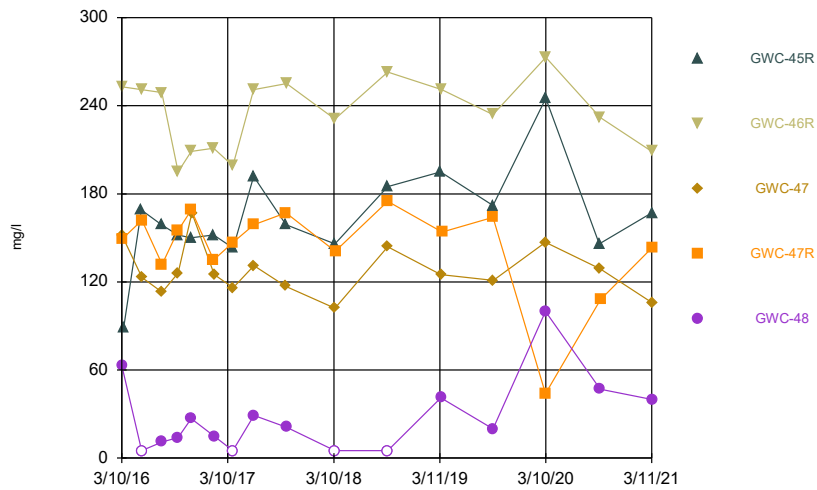
Constituent: Total Dissolved Solids Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



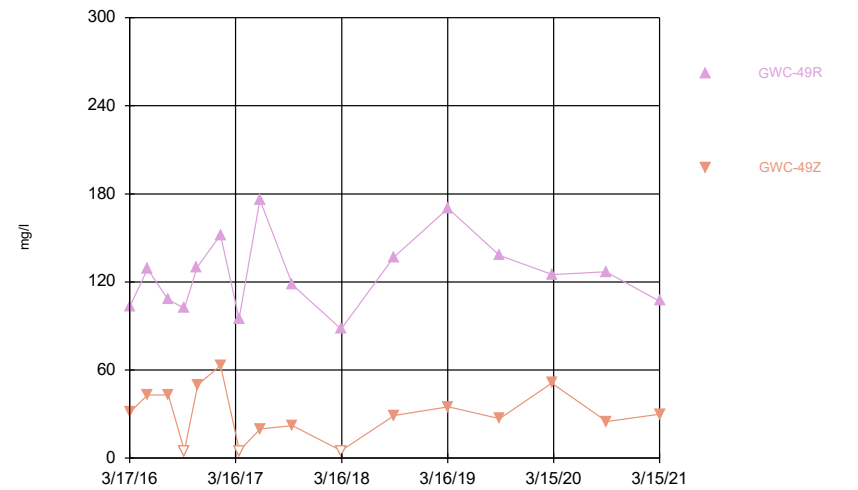
Constituent: Total Dissolved Solids Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



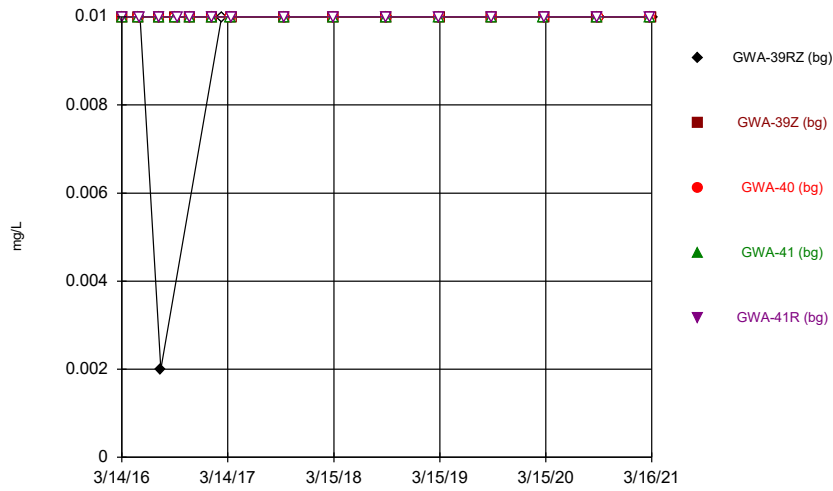
Constituent: Total Dissolved Solids Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



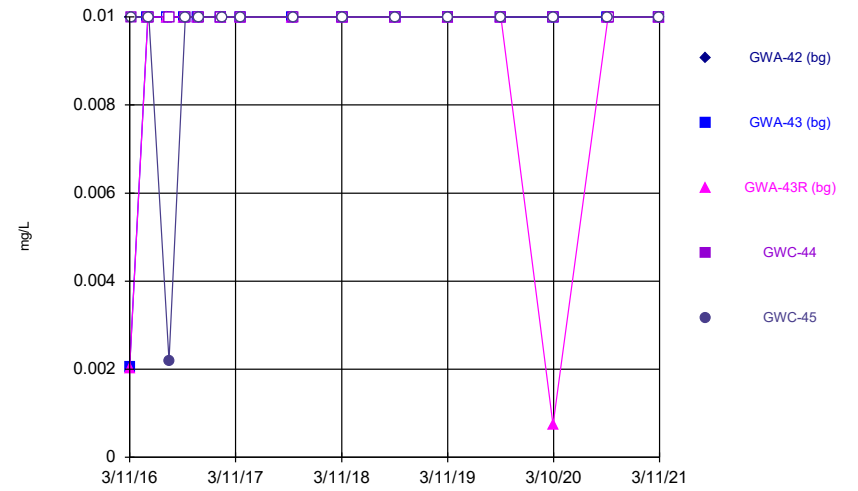
Constituent: Total Dissolved Solids Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



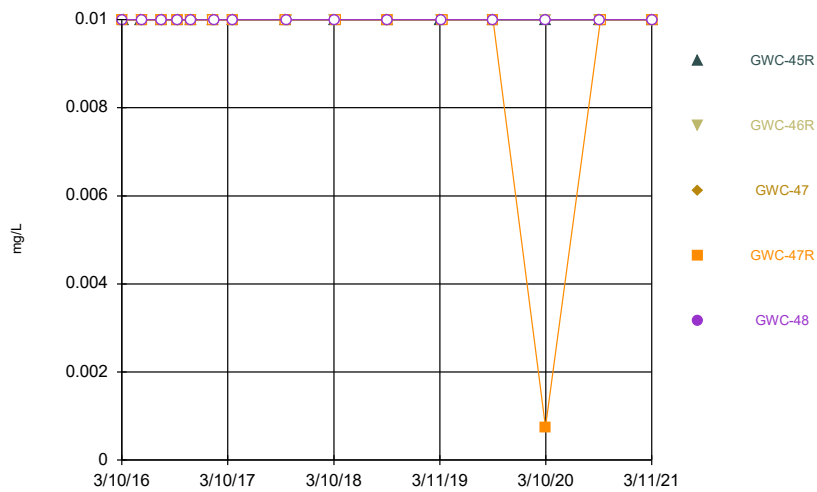
Constituent: Vanadium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



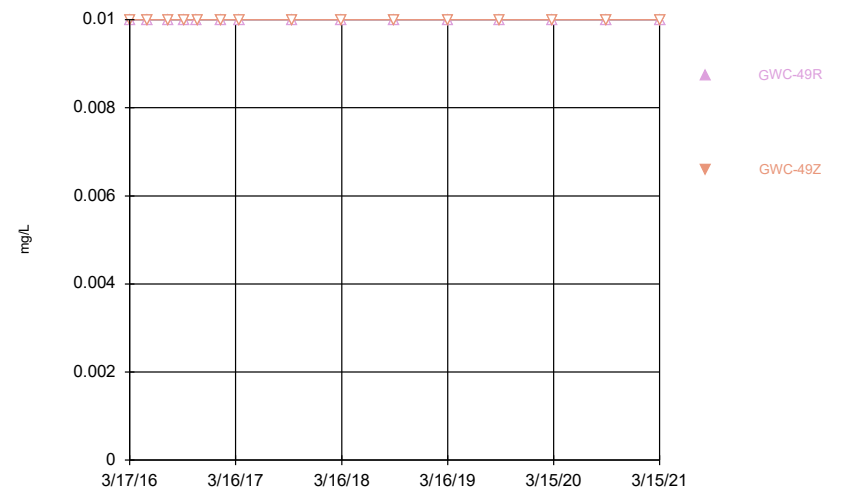
Constituent: Vanadium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



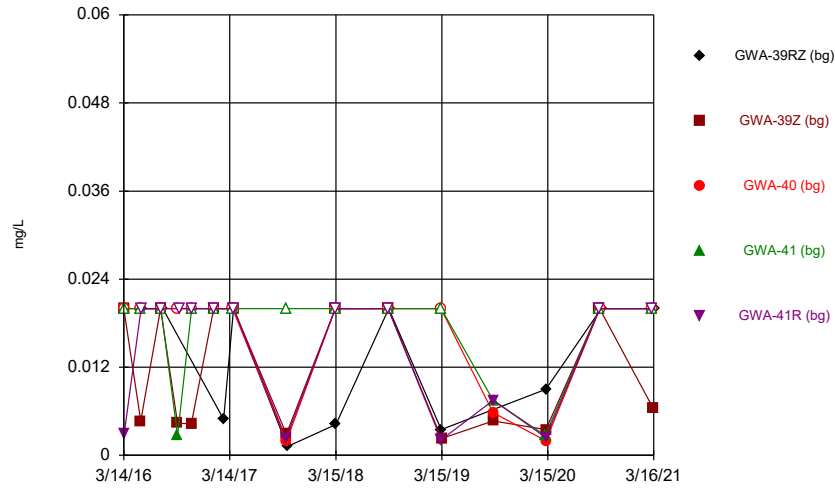
Constituent: Vanadium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



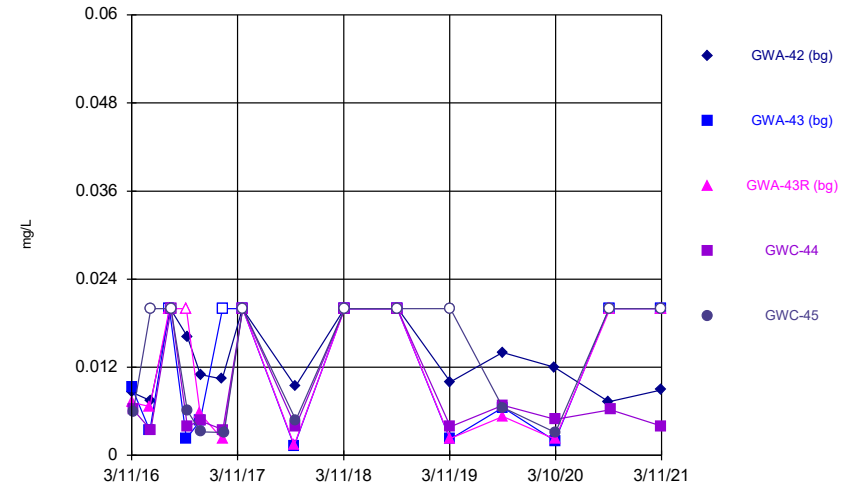
Constituent: Vanadium Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



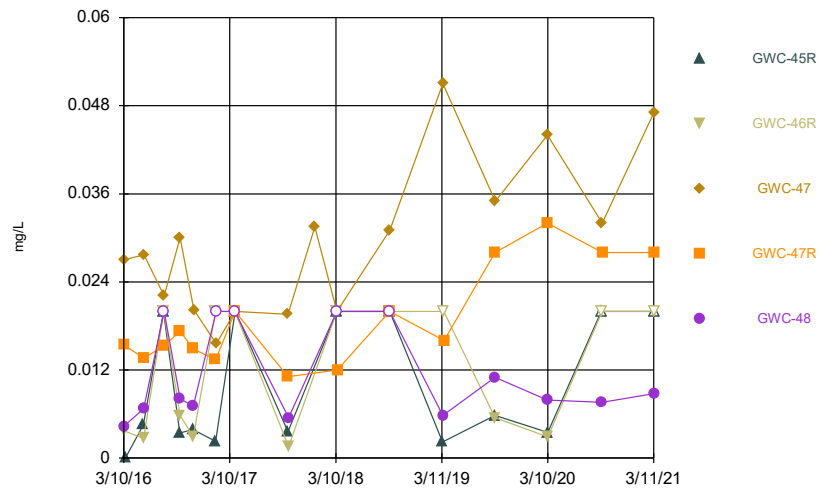
Constituent: Zinc Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



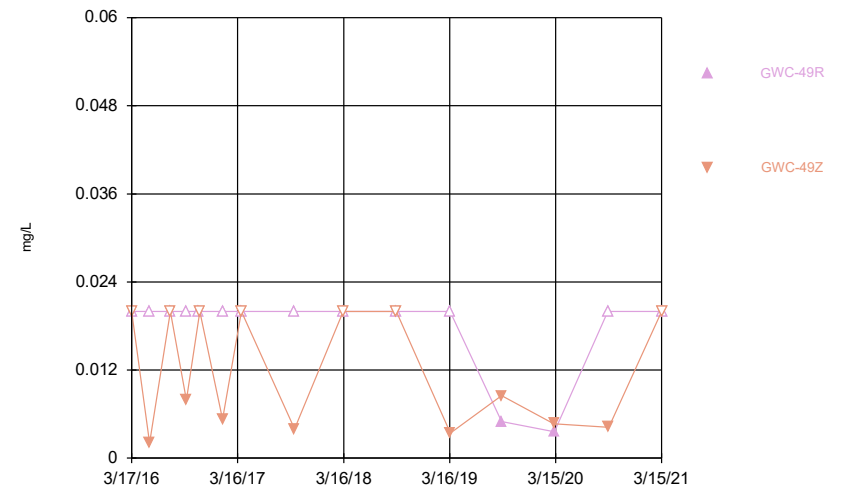
Constituent: Zinc Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



Constituent: Zinc Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series



Constituent: Zinc Analysis Run 4/29/2021 10:32 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		0.003			
3/15/2016			<0.003	<0.003	<0.003
5/11/2016		0.000839 (J)	<0.003		
5/12/2016				<0.003	
5/13/2016					<0.003
5/16/2016	<0.003 (D)				
7/19/2016		0.0024 (J)			
7/20/2016				<0.003	
7/21/2016			<0.003		<0.003 (*)
7/27/2016	0.0003 (JD)				
9/15/2016		0.0009 (J)	<0.003	<0.003	
9/21/2016					<0.003
11/2/2016		0.001 (J)			
11/3/2016			0.0021 (J)	<0.003	<0.003
1/17/2017			<0.003		<0.003
1/18/2017		0.0017 (J)		<0.003	
2/21/2017	0.0057				
3/24/2017			<0.003	<0.003	
3/27/2017	0.0013 (JD)				0.0008 (J)
3/28/2017		0.0006 (J)			
5/24/2017			<0.003		
6/6/2017				<0.003	<0.003
6/7/2017		0.0003 (J)			
6/8/2017	<0.003 (*)				
7/17/2017	0.005 (D)				
7/27/2017	0.0033				
8/9/2017	0.0012 (J)				
9/25/2017				<0.003	0.0035
9/26/2017		<0.003	<0.003		
9/29/2017	0.0013 (JD)				
3/14/2018		<0.003	<0.003	<0.003	<0.003
3/16/2018	0.0078				
9/12/2018		<0.003	<0.003	<0.003	0.003
9/14/2018	0.0056				
3/13/2019			<0.003		
3/14/2019	0.014			<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)
3/6/2020				<0.003	
3/9/2020	0.0013 (J)	0.0011 (J)	<0.003		0.0037
9/10/2020		0.0003 (J)		<0.003	0.0019 (J)
9/11/2020			<0.003		
9/16/2020	0.0028 (J)				
3/10/2021			<0.003		0.00037 (J)
3/11/2021				0.00038 (J)	
3/12/2021		0.0039			
3/16/2021	0.00041 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.003	<0.003	<0.003		
3/16/2016				<0.003	<0.003
5/13/2016		<0.003	<0.003		
5/16/2016	<0.003			<0.003	0.00109 (J)
7/19/2016		<0.003 (*)	<0.003		
7/22/2016	0.002 (J)				
7/25/2016				<0.003 (*)	<0.003 (*)
9/16/2016		<0.003	<0.003		
9/19/2016	<0.003			<0.003	<0.003
11/2/2016		<0.003	<0.003		
11/3/2016	<0.003			<0.003	
11/4/2016					<0.003
1/17/2017	<0.003				
1/18/2017		<0.003	0.0013 (J)		
1/19/2017				<0.003	
1/23/2017					<0.003
3/27/2017	<0.003				
3/28/2017		<0.003	<0.003	<0.003	
3/29/2017					0.0018 (J)
6/5/2017				<0.003	
6/6/2017		<0.003	0.0007 (J)		
6/7/2017	<0.003				0.0009 (J)
9/22/2017		<0.003	0.0012 (J)		
9/26/2017	<0.003			<0.003	
9/27/2017					0.0111 (o)
12/29/2017					0.0012 (Y)
3/14/2018	<0.003	<0.003			
3/15/2018			<0.003	<0.003	0.00086 (J)
9/12/2018		<0.003	<0.003	<0.003	
9/13/2018					0.0029 (J)
9/14/2018	<0.003				
3/13/2019		<0.003	<0.003		
3/14/2019	<0.003			<0.003	0.0015 (J)
9/10/2019	<0.003				
9/11/2019		<0.003	0.00029 (J)	<0.003	0.014
3/6/2020	<0.003				
3/9/2020		0.00062 (J)	0.00037 (J)		
3/10/2020				<0.003	0.00087 (J)
9/10/2020	<0.003				
9/11/2020		<0.003			0.0076
9/14/2020			<0.003		
9/15/2020				<0.003	
12/15/2020					0.0014 (J)
3/11/2021	<0.003	<0.003	0.00074 (J)	<0.003	0.00062 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.003	<0.003	<0.003	<0.003
3/16/2016	0.00426				
5/16/2016	0.00267 (J)				
5/17/2016		<0.003			<0.003
5/18/2016			<0.003	0.000987 (J)	
7/25/2016	0.0017 (J)				
7/26/2016		<0.003			
7/27/2016			0.0006 (J)	0.0008 (J)	0.0006 (J)
9/19/2016	<0.003				
9/20/2016		0.001 (J)	<0.003	0.0012 (J)	0.0018 (J)
11/3/2016	0.0017 (J)				
11/4/2016		<0.003		0.001 (J)	<0.003
11/7/2016			<0.003		
1/20/2017	0.001 (J)	<0.003		0.0013 (J)	
1/23/2017			<0.003		<0.003
3/28/2017		<0.003			<0.003
3/29/2017	0.001 (J)		<0.003	0.0004 (J)	
6/7/2017	0.0009 (J)	<0.003			
6/8/2017			<0.003	<0.003 (*)	<0.003 (*)
9/27/2017	0.0012 (J)		<0.003	<0.003	
9/29/2017		<0.003			<0.003
3/15/2018	<0.003	<0.003	<0.003		<0.003
3/16/2018				<0.003	
9/13/2018	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2019	<0.003				
3/15/2019			<0.003		<0.003
3/18/2019		<0.003			
3/19/2019				<0.003	
9/11/2019	<0.003	<0.003		0.00099 (J)	<0.003 (D)
9/12/2019			<0.003		
3/9/2020			0.00032 (J)	0.00056 (J)	<0.003
3/10/2020	<0.003	<0.003			
9/11/2020	0.00043 (J)				
9/14/2020		<0.003	<0.003		<0.003
9/15/2020				0.00053 (J)	
3/11/2021	<0.003	<0.003	<0.003	0.00038 (J)	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	0.003	<0.003
5/18/2016	<0.003	<0.003
7/27/2016	0.0023 (J)	
7/28/2016		<0.003
9/21/2016	0.0013 (J)	<0.003
11/4/2016	<0.003	
11/7/2016		<0.003 (*)
1/24/2017	<0.003	0.0024 (J)
3/29/2017	<0.003	
3/30/2017		0.0011 (J)
6/8/2017	<0.003 (*)	
6/9/2017		<0.003 (*)
9/29/2017	<0.003	0.0009 (J)
3/15/2018	<0.003	0.0012 (J)
9/13/2018	<0.003	
9/14/2018		0.00083 (J)
3/18/2019	<0.003	
3/19/2019		0.0011 (J)
9/11/2019	0.0032	0.00065 (J)
3/9/2020		0.0018 (J)
3/11/2020	0.0012 (J)	
9/11/2020	0.0011 (J)	
9/14/2020		0.0017 (J)
3/15/2021	0.0019 (J)	0.00086 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.005			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		<0.005	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	<0.005 (D)				
7/19/2016		<0.005			
7/20/2016				<0.005	
7/21/2016			<0.005		0.0012 (J)
7/27/2016	0.0011 (JD)				
9/15/2016		<0.005	<0.005	<0.005	
9/21/2016					<0.005
11/2/2016		<0.005			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		<0.005		<0.005	
2/21/2017	<0.005				
3/24/2017			<0.005	<0.005	
3/27/2017	0.0007 (JD)				0.0008 (J)
3/28/2017		0.0007 (J)			
5/24/2017			<0.005		
6/6/2017				<0.005 (*)	<0.005 (*)
6/7/2017		<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)				
9/25/2017				<0.005	0.001 (J)
9/26/2017		<0.005	0.0005 (J)		
9/29/2017	<0.005 (D)				
3/14/2018		<0.005	<0.005	<0.005	<0.005
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	<0.005
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	<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
3/6/2020				<0.005	
3/9/2020	0.00083 (J)	<0.005	<0.005		<0.005
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		<0.005			
3/16/2021	<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	<0.005	<0.005		
3/16/2016				0.0657 (o)	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			<0.005	<0.005
7/19/2016		<0.005	<0.005		
7/22/2016	<0.005				
7/25/2016				<0.005	<0.005
9/16/2016		<0.005	<0.005		
9/19/2016	<0.005			<0.005	<0.005
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			<0.005	
11/4/2016					<0.005
1/17/2017	<0.005				
1/18/2017		<0.005	<0.005		
1/19/2017				<0.005	
1/23/2017					<0.005
3/27/2017	<0.005				
3/28/2017		<0.005	0.0005 (J)	0.0009 (J)	
3/29/2017					<0.005
6/5/2017				0.0033 (J)	
6/6/2017		<0.005 (*)	<0.005 (*)		
6/7/2017	<0.005 (*)				<0.005
9/22/2017		<0.005	<0.005		
9/26/2017	<0.005			0.0008 (J)	
9/27/2017					<0.005
3/14/2018	<0.005	<0.005			
3/15/2018			<0.005	<0.005	<0.005
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					<0.005
9/14/2018	<0.005				
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005			<0.005	<0.005
9/10/2019	<0.005				
9/11/2019		<0.005	<0.005	<0.005	<0.005
3/6/2020	<0.005				
3/9/2020		<0.005	<0.005		
3/10/2020				0.0013 (J)	<0.005
9/10/2020	<0.005				
9/11/2020		<0.005			<0.005
9/14/2020			<0.005		
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	0.0551 (o)	<0.005
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			<0.005
5/18/2016			<0.005	0.00127 (J)	
7/25/2016	<0.005				
7/26/2016		<0.005			
7/27/2016			<0.005	0.0012 (J)	<0.005
9/19/2016	<0.005				
9/20/2016		<0.005	<0.005	<0.005	<0.005
11/3/2016	<0.005				
11/4/2016		<0.005		<0.005	<0.005
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		0.0004 (J)			<0.005
3/29/2017	<0.005		<0.005	<0.005	
6/7/2017	<0.005 (*)	<0.005 (*)			
6/8/2017			0.0006 (J)	0.001 (J)	<0.005
9/27/2017	0.0006 (J)		<0.005	0.0009 (J)	
9/29/2017		<0.005			<0.005
3/15/2018	<0.005	<0.005	<0.005		<0.005
3/16/2018				<0.005	
9/13/2018	<0.005	<0.005	<0.005	0.00091 (J)	<0.005
3/14/2019	<0.005				
3/15/2019			<0.005		<0.005
3/18/2019		<0.005			
3/19/2019				<0.005	
9/11/2019	<0.005	<0.005		0.00067 (J)	<0.005 (D)
9/12/2019			<0.005		
3/9/2020			<0.005	0.00051 (J)	<0.005
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		<0.005
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	<0.005
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		<0.005
9/21/2016	<0.005	<0.005
11/4/2016	<0.005	
11/7/2016		<0.005
1/24/2017	<0.005	<0.005
3/29/2017	<0.005	
3/30/2017		<0.005
6/8/2017	<0.005	
6/9/2017		<0.005
9/29/2017	<0.005	<0.005
3/15/2018	<0.005	<0.005
9/13/2018	<0.005	
9/14/2018		<0.005
3/18/2019	<0.005	
3/19/2019		<0.005
9/11/2019	<0.005	<0.005
3/9/2020		<0.005
3/11/2020	0.00041 (J)	
9/11/2020	<0.005	
9/14/2020		<0.005
3/15/2021	<0.005	<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.01			
3/15/2016			<3 (o)	0.0291	0.0462
5/11/2016		0.00793 (J)	0.00992 (J)		
5/12/2016				0.0322	
5/13/2016					0.0265
5/16/2016	0.0113 (D)				
7/19/2016		0.0045 (J)			
7/20/2016				0.0313	
7/21/2016			0.009 (J)		0.0243
7/27/2016	0.0114 (D)				
9/15/2016		0.0057 (J)	0.0109	0.0217	
9/21/2016					0.0145
11/2/2016		0.0043 (J)			
11/3/2016			0.0115	0.0272	0.0082 (J)
1/17/2017			0.0101		0.007 (J)
1/18/2017		<0.01 (*)		0.0286 (J)	
2/21/2017	0.0178				
3/24/2017			0.0086 (J)	0.0307	
3/27/2017	0.0162 (D)				0.016
3/28/2017		0.0188			
5/24/2017			0.0087 (J)		
6/6/2017				0.0242	0.0301
6/7/2017		0.0273			
6/8/2017	0.0156 (D)				
7/17/2017	0.016 (D)				
7/27/2017	0.0184				
8/9/2017	0.0162				
9/25/2017				0.0252	0.0169
9/26/2017		0.0236	0.0075 (J)		
9/29/2017	0.0159 (D)				
3/14/2018		0.027	0.0064 (J)	0.021	0.036
3/16/2018	0.016				
9/12/2018		0.022	0.0075 (J)	0.025	0.021
9/14/2018	0.015				
3/13/2019			0.0076 (J)		
3/14/2019	0.018			0.028	0.04
3/15/2019		0.019			
9/9/2019		0.015	0.0078 (J)		
9/10/2019				0.0195 (D)	0.031
3/6/2020				0.022	
3/9/2020	0.017	0.0072 (J)	0.0088 (J)		0.031
9/10/2020		0.0042 (J)		0.024	0.031
9/11/2020			0.0079 (J)		
9/16/2020	0.027				
3/10/2021			0.0083		0.023
3/11/2021				0.024	
3/12/2021		0.014			
3/16/2021	0.014				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	0.00639 (J)	0.0116	0.00819 (J)		
3/16/2016				<3 (o)	0.6294 (o)
5/13/2016		0.0361	0.00756 (J)		
5/16/2016	0.00622 (J)			0.0418	0.006 (J)
7/19/2016		0.036	0.0079 (J)		
7/22/2016	0.0062 (J)				
7/25/2016				0.0179	0.0056 (J)
9/16/2016		0.0259	0.0078 (J)		
9/19/2016	0.0064 (J)			0.0152	0.0059 (J)
11/2/2016		0.037	0.0082 (J)		
11/3/2016	0.0058 (J)			0.0127	
11/4/2016					0.0054 (J)
1/17/2017	0.0061 (J)				
1/18/2017		0.0248	0.0085 (J)		
1/19/2017				0.0172	
1/23/2017					0.006 (J)
3/27/2017	0.0063 (J)				
3/28/2017		0.0222	0.0084 (J)	0.0437	
3/29/2017					0.0058 (J)
6/5/2017				0.0747	
6/6/2017		0.02	0.0078 (J)		
6/7/2017	0.0064 (J)				0.0062 (J)
9/22/2017		0.0179	0.0076 (J)		
9/26/2017	0.006 (J)			0.0338	
9/27/2017					0.0056 (J)
3/14/2018	0.0065 (J)	0.016			
3/15/2018			0.0092 (J)	0.059	0.0057 (J)
9/12/2018		0.017	0.008 (J)	0.032	
9/13/2018					0.0057 (J)
9/14/2018	0.0065 (J)				
3/13/2019		0.014	0.0077 (J)		
3/14/2019	0.0066 (J)			0.077	0.0066 (J)
9/10/2019	0.0068 (J)				
9/11/2019		0.015	0.0079 (J)	0.036	0.0061 (J)
3/6/2020	0.0066 (J)				
3/9/2020		0.012	0.0069 (J)		
3/10/2020				0.059	0.0061 (J)
9/10/2020	0.0059 (J)				
9/11/2020		0.024			0.006 (J)
9/14/2020			0.0075 (J)		
9/15/2020				0.035	
3/11/2021	0.0061	0.0096	0.0069	0.046	0.0059

Time Series

Constituent: Barium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		0.0209	0.0144	0.0344 (o)	0.0361
3/16/2016	0.0244				
5/16/2016	0.0222				
5/17/2016		0.0202			0.0277
5/18/2016			0.0136	0.0184	
7/25/2016	0.02				
7/26/2016		0.0165			
7/27/2016			0.013	0.0146	0.0276
9/19/2016	0.019				
9/20/2016		0.0132	0.0146	0.0122	0.0266
11/3/2016	0.0177				
11/4/2016		0.012		0.0119	0.0239
11/7/2016			0.0124		
1/20/2017	0.0173	0.0133		0.0114	
1/23/2017			0.0158		<0.01
3/28/2017		0.0161			0.024
3/29/2017	0.0184		0.017	0.0116	
6/7/2017	0.019	0.0141			
6/8/2017			0.0149	<0.01 (*)	0.0317
9/27/2017	0.0197		0.012	0.0098 (J)	
9/29/2017		0.0151			0.0265
3/15/2018	0.021	0.015	0.011		0.029
3/16/2018				0.01	
9/13/2018	0.022	0.014	0.011	0.0092 (J)	0.026
3/14/2019	0.024				
3/15/2019			0.01		0.026
3/18/2019		0.014			
3/19/2019				0.0088 (J)	
9/11/2019	0.021	0.013		0.0097 (J)	0.0295 (D)
9/12/2019			0.0085 (J)		
3/9/2020			0.0089 (J)	0.0082 (J)	0.029
3/10/2020	0.024	0.013			
9/11/2020	0.021				
9/14/2020		0.013	0.0082 (J)		0.035
9/15/2020				0.0084 (J)	
3/11/2021	0.022	0.012	0.0083	0.0073	0.038

Time Series

Constituent: Barium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	0.0112	0.0121
5/18/2016	0.0107	0.0117
7/27/2016	0.0104	
7/28/2016		0.0081 (J)
9/21/2016	0.0106	0.0106
11/4/2016	0.0098 (J)	
11/7/2016		0.0047 (J)
1/24/2017	0.0101	0.0071 (J)
3/29/2017	0.0103	
3/30/2017		0.0043 (J)
6/8/2017	<0.01 (*)	
6/9/2017		<0.01 (*)
9/29/2017	0.0097 (J)	0.004 (J)
3/15/2018	0.0093 (J)	0.0032 (J)
9/13/2018	0.01	
9/14/2018		0.004 (J)
3/18/2019	0.015	
3/19/2019		0.0033 (J)
9/11/2019	0.017	0.0038 (J)
3/9/2020		0.0045 (J)
3/11/2020	0.026	
9/11/2020	0.012	
9/14/2020		0.0027 (J)
3/15/2021	0.012	0.0028 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.0005			
3/15/2016			<0.0005	<0.0005	<0.0005
5/11/2016		<0.0005	<0.0005		
5/12/2016				<0.0005	
5/13/2016					<0.0005
5/16/2016	<0.0005 (D)				
7/19/2016		<0.0005			
7/20/2016				<0.0005	
7/21/2016			<0.0005		<0.0005
7/27/2016	0.0004 (JD)				
9/15/2016		<0.0005	<0.0005	<0.0005	
9/21/2016					<0.0005
11/2/2016		<0.0005			
11/3/2016			<0.0005	<0.0005	<0.0005
1/17/2017			<0.0005		<0.0005
1/18/2017		<0.0005		<0.0005	
2/21/2017	<0.0005				
3/24/2017			<0.0005	<0.0005	
3/27/2017	<0.0005 (D)				<0.0005
3/28/2017		<0.0005			
5/24/2017			<0.0005		
6/6/2017				<0.0005	<0.0005
6/7/2017		<0.0005			
6/8/2017	<0.0005 (D)				
7/17/2017	<0.0005 (D)				
7/27/2017	<0.0005				
8/9/2017	<0.0005				
9/25/2017				<0.0005	<0.0005
9/26/2017		<0.0005	<0.0005		
9/29/2017	<0.0005 (D)				
3/14/2018		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2018	<0.0005				
9/12/2018		<0.0005	<0.0005	<0.0005	<0.0005
9/14/2018	<0.0005				
3/13/2019			<0.0005		
3/14/2019	<0.0005			<0.0005	5.2E-05 (J)
3/15/2019		<0.0005			
9/9/2019		<0.0005	<0.0005		
9/10/2019				<0.0005 (D)	<0.0005
3/6/2020				<0.0005	
3/9/2020	<0.0005	<0.0005	<0.0005		<0.0005
9/10/2020		<0.0005		<0.0005	<0.0005
9/11/2020			<0.0005		
9/16/2020	<0.0005				
3/10/2021			<0.0005		<0.0005
3/11/2021				<0.0005	
3/12/2021		<0.0005			
3/16/2021	<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005 (o)	<0.0005	<0.0005		
3/16/2016				<0.0005	<0.0005
5/13/2016		<0.0005	<0.0005		
5/16/2016	<0.003 (o)			<0.0005	<0.0005
7/19/2016		<0.0005	<0.0005		
7/22/2016	0.0002 (J)				
7/25/2016				<0.0005	<0.0005
9/16/2016		<0.0005	<0.0005		
9/19/2016	0.0001 (J)			<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005		
11/3/2016	0.0002 (J)			<0.0005	
11/4/2016					<0.0005
1/17/2017	0.0001 (J)				
1/18/2017		<0.0005	<0.0005		
1/19/2017				<0.0005	
1/23/2017					<0.0005
3/27/2017	0.0001 (J)				
3/28/2017		<0.0005	<0.0005	8E-05 (J)	
3/29/2017					<0.0005
6/5/2017				9E-05 (J)	
6/6/2017		<0.0005	<0.0005		
6/7/2017	0.0001 (J)				<0.0005
9/22/2017		<0.0005	<0.0005		
9/26/2017	0.0001 (J)			<0.0005	
9/27/2017					<0.0005
3/14/2018	0.00014 (J)	<0.0005			
3/15/2018			5.1E-05 (J)	7.7E-05 (J)	<0.0005
9/12/2018		<0.0005	<0.0005	<0.0005	
9/13/2018					<0.0005
9/14/2018	0.00012 (J)				
3/13/2019		<0.0005	<0.0005		
3/14/2019	0.00017 (J)			7.8E-05 (J)	<0.0005
9/10/2019	0.00015 (J)				
9/11/2019		<0.0005	<0.0005	<0.0005	<0.0005
3/6/2020	0.00017 (J)				
3/9/2020		<0.0005	<0.0005		
3/10/2020				7.4E-05 (J)	<0.0005
9/10/2020	0.00014 (J)				
9/11/2020		6.9E-05 (J)			<0.0005
9/14/2020			<0.0005		
9/15/2020				5.7E-05 (J)	
3/11/2021	0.00015 (J)	<0.0005	<0.0005	6.4E-05 (J)	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2016	<0.0005				
5/16/2016	<0.0005				
5/17/2016		<0.0005			<0.0005
5/18/2016			<0.0005	<0.0005	
7/25/2016	<0.0005				
7/26/2016		<0.0005			
7/27/2016			<0.0005	<0.0005	0.0002 (J)
9/19/2016	<0.0005				
9/20/2016		<0.0005	<0.0005	<0.0005	0.0002 (J)
11/3/2016	<0.0005				
11/4/2016		<0.0005		<0.0005	0.0002 (J)
11/7/2016			<0.0005		
1/20/2017	<0.0005	<0.0005		<0.0005	
1/23/2017			<0.0005		<0.0005
3/28/2017		<0.0005			0.0002 (J)
3/29/2017	<0.0005		<0.0005	<0.0005	
6/7/2017	<0.0005	<0.0005			
6/8/2017			<0.0005	<0.0005	0.0002 (J)
9/27/2017	<0.0005		<0.0005	<0.0005	
9/29/2017		<0.0005			0.0002 (J)
3/15/2018	<0.0005	<0.0005	<0.0005		0.00025 (J)
3/16/2018				<0.0005	
9/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	0.00026 (J)
3/14/2019	<0.0005				
3/15/2019			<0.0005		0.00022 (J)
3/18/2019		<0.0005			
3/19/2019				<0.0005	
9/11/2019	<0.0005	<0.0005		<0.0005	0.0003 (JD)
9/12/2019			<0.0005		
3/9/2020			<0.0005	<0.0005	0.00028 (J)
3/10/2020	<0.0005	<0.0005			
9/11/2020	5.6E-05 (J)				
9/14/2020		<0.0005	<0.0005		0.00033 (J)
9/15/2020				<0.0005	
3/11/2021	<0.0005	<0.0005	<0.0005	<0.0005	0.00033 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.0005	<0.0005
5/18/2016	<0.0005	<0.0005
7/27/2016	<0.0005	
7/28/2016		<0.0005
9/21/2016	<0.0005	<0.0005
11/4/2016	<0.0005	
11/7/2016		<0.0005
1/24/2017	<0.0005	<0.0005
3/29/2017	<0.0005	
3/30/2017		<0.0005
6/8/2017	<0.0005	
6/9/2017		<0.0005
9/29/2017	<0.0005	<0.0005
3/15/2018	<0.0005	<0.0005
9/13/2018	<0.0005	
9/14/2018		<0.0005
3/18/2019	<0.0005	
3/19/2019		<0.0005
9/11/2019	<0.0005	<0.0005
3/9/2020		<0.0005
3/11/2020	<0.0005	
9/11/2020	<0.0005	
9/14/2020		<0.0005
3/15/2021	<0.0005	<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.04			
3/15/2016			<0.04	<0.04	<0.04
5/11/2016		<0.04	<0.04		
5/12/2016				<0.04	
5/13/2016					<0.04
5/16/2016	<0.04 (D)				
7/19/2016		<0.04 (*)			
7/20/2016				<0.04	
7/21/2016			<0.04		<0.04 (*)
7/27/2016	<0.04 (*)				
9/15/2016		0.0067 (J)	<0.04	<0.04	
9/21/2016					<0.04 (*)
11/2/2016		<0.04			
11/3/2016			<0.04 (*)	<0.04	<0.04
1/17/2017			<0.04		<0.04
1/18/2017		<0.04		<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)
3/28/2017		<0.04			
5/24/2017			<0.04		
6/6/2017				<0.04	<0.04 (*)
6/7/2017		<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)				
9/25/2017				<0.04	0.0141 (J)
9/26/2017		<0.04	0.0075 (J)		
9/29/2017	0.0066 (JD)				
3/14/2018		<0.04	0.0093 (J)	0.011 (J)	0.014 (J)
3/16/2018	0.0067 (J)				
9/12/2018		<0.04	<0.04	<0.04	0.013 (J)
9/14/2018	0.0059 (J)				
3/13/2019			<0.04		
3/14/2019	0.0059 (X)			0.007 (X)	0.015 (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)
3/6/2020				0.013 (J)	
3/9/2020	0.0065 (J)	<0.04	0.0074 (J)		0.021 (J)
9/10/2020		<0.04		<0.04	0.016 (J)
9/11/2020			<0.04		
9/16/2020	0.015 (J)				
3/10/2021			<0.04		0.0098 (J)
3/11/2021				0.0075 (J)	
3/12/2021		0.011 (J)			
3/16/2021	<0.04				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.04	<0.04	<0.04		
3/16/2016				<0.04	<0.04
5/13/2016		<0.04	<0.04		
5/16/2016	<0.04			<0.04	<0.04
7/19/2016		<0.04 (*)	<0.04 (*)		
7/22/2016	0.0076 (J)				
7/25/2016				<0.04	<0.04
9/16/2016		<0.04	0.0246 (J)		
9/19/2016	<0.04			<0.04	<0.04
11/2/2016		<0.04	0.0279 (J)		
11/3/2016	<0.04			<0.04	
11/4/2016					<0.04
1/17/2017	<0.04				
1/18/2017		<0.04	0.0336 (J)		
1/19/2017				<0.04	
1/23/2017					0.0086 (J)
3/27/2017	0.0101 (J)				
3/28/2017		<0.04	0.0313 (J)	0.0113 (J)	
3/29/2017					<0.04
6/5/2017				<0.04 (*)	
6/6/2017		<0.04 (*)	<0.04 (*)		
6/7/2017	<0.04 (*)				<0.04 (*)
9/22/2017		<0.04	0.0294 (J)		
9/26/2017	<0.04			0.0084 (J)	
9/27/2017					<0.04
3/14/2018	<0.04	<0.04			
3/15/2018			0.018 (J)	0.014 (J)	0.0077 (J)
9/12/2018		<0.04	0.018 (J)	0.0051 (J)	
9/13/2018					<0.04
9/14/2018	<0.04				
3/13/2019		<0.04	0.012 (X)		
3/14/2019	<0.04			0.018 (X)	<0.04
9/10/2019	<0.04				
9/11/2019		0.0059 (X)	0.021 (X)	0.0088 (X)	<0.04
3/6/2020	0.0068 (J)				
3/9/2020		<0.04	0.017 (J)		
3/10/2020				0.019 (J)	<0.04
9/10/2020	<0.04				
9/11/2020		<0.04			<0.04
9/14/2020			0.018 (J)		
9/15/2020				0.0089 (J)	
3/11/2021	<0.04	<0.04	0.017 (J)	0.016 (J)	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.04	<0.04	<0.04	<0.04
3/16/2016	<0.04				
5/16/2016	<0.04				
5/17/2016		<0.04			<0.04
5/18/2016			<0.04	<0.04	
7/25/2016	0.0054 (J)				
7/26/2016		0.0047 (J)			
7/27/2016			<0.04 (*)	<0.04	<0.04 (*)
9/19/2016	<0.04				
9/20/2016		0.0254 (J)	0.0133 (J)	0.0109 (J)	0.0078 (J)
11/3/2016	<0.04				
11/4/2016		<0.04		<0.04	<0.04
11/7/2016			0.0079 (J)		
1/20/2017	<0.04	<0.04		<0.04	
1/23/2017			<0.04		<0.04
3/28/2017		<0.04			<0.04
3/29/2017	<0.04		<0.04	<0.04	
6/7/2017	<0.04 (*)	<0.04 (*)			
6/8/2017			<0.04	<0.04	<0.04
9/27/2017	<0.04		<0.04	<0.04	
9/29/2017		<0.04			<0.04
3/15/2018	0.0063 (J)	0.0042 (J)	<0.04		<0.04
3/16/2018				<0.04	
9/13/2018	<0.04	<0.04	<0.04	<0.04	<0.04
3/14/2019	0.006 (X)				
3/15/2019			<0.04		<0.04
3/18/2019		0.022 (X)			
3/19/2019				<0.04	
9/11/2019	<0.04	<0.04		0.0054 (X)	<0.04
9/12/2019			<0.04		
3/9/2020			<0.04	0.0051 (J)	<0.04
3/10/2020	0.009 (J)	<0.04			
9/11/2020	0.0056 (J)				
9/14/2020		<0.04	<0.04		<0.04
9/15/2020				<0.04	
3/11/2021	0.006 (J)	<0.04	<0.04	<0.04	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.04	<0.04
5/18/2016	<0.04	<0.04
7/27/2016	<0.04 (*)	
7/28/2016		<0.04 (*)
9/21/2016	<0.04 (*)	<0.04 (*)
11/4/2016	<0.04	
11/7/2016		0.0138 (J)
1/24/2017	<0.04	<0.04
3/29/2017	<0.04	
3/30/2017		0.0077 (J)
6/8/2017	<0.04	
6/9/2017		<0.04
9/29/2017	<0.04	<0.04
3/15/2018	<0.04	0.0052 (J)
9/13/2018	<0.04	
9/14/2018		<0.04
3/18/2019	0.0099 (X)	
3/19/2019		0.0043 (X)
9/11/2019	<0.04	<0.04
3/9/2020		0.0055 (J)
3/11/2020	<0.04	
9/11/2020	0.0057 (J)	
9/14/2020		<0.04
3/15/2021	0.01 (J)	0.0066 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.0005			
3/15/2016			<0.0005	<0.0005	<0.0005
5/11/2016		0.000177 (J)	<0.0005		
5/12/2016				<0.0005	
5/13/2016					<0.0005
5/16/2016	<0.0005 (D)				
7/19/2016		0.0001 (J)			
7/20/2016				<0.0005	
7/21/2016			<0.0005		<0.0005
7/27/2016	0.0001 (JD)				
9/15/2016		8E-05 (J)	<0.0005	<0.0005	
9/21/2016					<0.0005
11/2/2016		<0.0005			
11/3/2016			<0.0005	<0.0005	<0.0005
1/17/2017			<0.0005		<0.0005
1/18/2017		<0.0005		<0.0005	
2/21/2017	<0.0005				
3/24/2017			<0.0005	<0.0005	
3/27/2017	<0.0005 (D)				<0.0005
3/28/2017		<0.0005			
5/24/2017			<0.0005		
6/6/2017				<0.0005	<0.0005
6/7/2017		<0.0005			
6/8/2017	<0.0005 (D)				
7/17/2017	<0.0005 (D)				
7/27/2017	<0.0005				
8/9/2017	<0.0005				
9/25/2017				<0.0005	<0.0005
9/26/2017		<0.0005	<0.0005		
9/29/2017	<0.0005 (D)				
3/14/2018		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2018	<0.0005				
9/12/2018		<0.0005	<0.0005	<0.0005	<0.0005
9/14/2018	<0.0005				
3/13/2019			<0.0005		
3/14/2019	<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
3/6/2020				<0.0005	
3/9/2020	<0.0005	<0.0005	<0.0005		<0.0005
9/10/2020		<0.0005		<0.0005	<0.0005
9/11/2020			<0.0005		
9/16/2020	<0.0005				
3/10/2021			<0.0005		<0.0005
3/11/2021				<0.0005	
3/12/2021		<0.0005			
3/16/2021	<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	0.000121 (J)	<0.0005	<0.0005		
3/16/2016				<0.0005	<0.0005
5/13/2016		<0.0005	<0.0005		
5/16/2016	0.000145 (J)			<0.0005	<0.0005
7/19/2016		<0.0005	<0.0005		
7/22/2016	<0.0005				
7/25/2016				<0.0005	<0.0005
9/16/2016		<0.0005	<0.0005		
9/19/2016	0.0001 (J)			<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005		
11/3/2016	8E-05 (J)			<0.0005	
11/4/2016					<0.0005
1/17/2017	0.0001 (J)				
1/18/2017		<0.0005	<0.0005		
1/19/2017				<0.0005	
1/23/2017					<0.0005
3/27/2017	0.0002 (J)				
3/28/2017		<0.0005	<0.0005	<0.0005	
3/29/2017					<0.0005
6/5/2017				8E-05 (J)	
6/6/2017		8E-05 (J)	<0.0005		
6/7/2017	0.0001 (J)				<0.0005
9/22/2017		<0.0005	<0.0005		
9/26/2017	<0.0005			<0.0005	
9/27/2017					<0.0005
3/14/2018	0.00011 (J)	<0.0005			
3/15/2018			<0.0005	<0.0005	<0.0005
9/12/2018		<0.0005	<0.0005	<0.0005	
9/13/2018					<0.0005
9/14/2018	0.00013 (J)				
3/13/2019		<0.0005	<0.0005		
3/14/2019	0.00013 (J)			<0.0005	<0.0005
9/10/2019	0.00014 (J)				
9/11/2019		<0.0005	<0.0005	<0.0005	<0.0005
3/6/2020	0.00014 (J)				
3/9/2020		<0.0005	<0.0005		
3/10/2020				<0.0005	<0.0005
9/10/2020	0.00015 (J)				
9/11/2020		<0.0005			<0.0005
9/14/2020			<0.0005		
9/15/2020				<0.0005	
3/11/2021	0.00017 (J)	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.0005	<0.0005	<0.0005	0.0195 (Jo)
3/16/2016	0.0167 (o)				
5/16/2016	<0.0005				
5/17/2016		<0.0005			0.000251 (J)
5/18/2016			<0.0005	<0.0005	
7/25/2016	<0.0005				
7/26/2016		<0.0005			
7/27/2016			<0.0005	<0.0005	0.0002 (J)
9/19/2016	<0.0005				
9/20/2016		<0.0005	8E-05 (J)	<0.0005	0.0002 (J)
11/3/2016	<0.0005				
11/4/2016		<0.0005		<0.0005	0.0001 (J)
11/7/2016			<0.0005		
1/20/2017	<0.0005	<0.0005		<0.0005	
1/23/2017			<0.0005		<0.0005
3/28/2017		<0.0005			0.0001 (J)
3/29/2017	<0.0005		<0.0005	<0.0005	
6/7/2017	<0.0005	<0.0005			
6/8/2017			<0.0005	<0.0005	0.0002 (J)
9/27/2017	<0.0005		<0.0005	<0.0005	
9/29/2017		<0.0005			0.0002 (J)
3/15/2018	<0.0005	<0.0005	9.3E-05 (J)		0.00018 (J)
3/16/2018				<0.0005	
9/13/2018	<0.0005	<0.0005	<0.0005	<0.0005	0.00012 (J)
3/14/2019	<0.0005				
3/15/2019			0.00015 (J)		0.00018 (J)
3/18/2019		<0.0005			
3/19/2019				<0.0005	
9/11/2019	<0.0005	<0.0005		<0.0005	0.00021 (JD)
9/12/2019			<0.0005		
3/9/2020			0.00015 (J)	<0.0005	0.00016 (J)
3/10/2020	<0.0005	<0.0005			
9/11/2020	<0.0005				
9/14/2020		<0.0005	0.00014 (J)		0.00019 (J)
9/15/2020				<0.0005	
3/11/2021	<0.0005	<0.0005	0.00018 (J)	<0.0005	0.00021 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.0005	<0.0005
5/18/2016	<0.0005	<0.0005
7/27/2016	<0.0005	
7/28/2016		<0.0005
9/21/2016	<0.0005	9E-05 (J)
11/4/2016	<0.0005	
11/7/2016		0.0001 (J)
1/24/2017	<0.0005	0.0002 (J)
3/29/2017	<0.0005	
3/30/2017		0.0002 (J)
6/8/2017	<0.0005	
6/9/2017		0.0002 (J)
9/29/2017	<0.0005	0.0002 (J)
3/15/2018	<0.0005	0.0001 (J)
9/13/2018	<0.0005	
9/14/2018		<0.0005
3/18/2019	<0.0005	
3/19/2019		<0.0005
9/11/2019	<0.0005	<0.0005
3/9/2020		<0.0005
3/11/2020	<0.0005	
9/11/2020	<0.0005	
9/14/2020		<0.0005
3/15/2021	<0.0005	<0.0005

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		20			
3/15/2016			24	24	38
5/11/2016		9.76	22.1		
5/12/2016				15.5	
5/13/2016					36
5/16/2016	27.8 (D)				
7/19/2016		3.04			
7/20/2016				16.5	
7/21/2016			19.3		33.5
7/27/2016	21.2 (D)				
9/15/2016		4.78	18.2	6.1	
9/21/2016					31.9
11/2/2016		2.46			
11/3/2016			18.2	13.7	28.9
1/17/2017			22		31.4
1/18/2017		5.46		13.1	
2/21/2017	31.7 (D)				
3/24/2017			21.1	17.3	
3/27/2017	31.9 (D)				31.7
3/28/2017		13			
5/24/2017			23.5		
6/6/2017				29.1	42.9
6/7/2017		17			
6/8/2017	35 (D)				
7/17/2017	35.9 (D)				
7/27/2017	34.9 (D)				
8/9/2017	33.7 (D)				
9/25/2017				17.6	29.3
9/26/2017		24.9	24.1		
9/29/2017	33.4 (D)				
12/28/2017		17.9 (Y)			
3/14/2018		26.4	25.7	39.6	41.4
3/16/2018	32.6				
9/12/2018		25.1	18.4 (J)	14.2 (J)	29
9/14/2018	29.2				
3/13/2019			23.8 (X)		
3/14/2019	33			22.7 (X)	31.9
3/15/2019		20.3 (X)			
9/9/2019		11.3	15.4		
9/10/2019	33.8			6	29.6
3/6/2020				29.2	
3/9/2020	35.6	3.2	29.4		25.5
9/10/2020		1		13.5	22.9
9/11/2020			17.7		
9/16/2020	34.9				
3/10/2021			22.8		40.3
3/11/2021				25.9	
3/12/2021		11			
3/16/2021	32.4				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	31	13	30		
3/16/2016				5.5	0.8
5/13/2016		18.7	27.8		
5/16/2016	32			4.3	0.877
7/19/2016		12	25.3		
7/22/2016	28.5				
7/25/2016				1.41	0.781
9/16/2016		8.48	27.5		
9/19/2016	28.6			1.01	0.775
11/2/2016		11.4	26.2		
11/3/2016	26.6			0.884	
11/4/2016					0.792
1/17/2017	28.7				
1/18/2017		6.81	26.6		
1/19/2017				1.41	
1/23/2017					0.782
3/27/2017	30.4				
3/28/2017		5.61	29	4.23	
3/29/2017					0.756
6/5/2017				10.1	
6/6/2017		4.99	29.3		
6/7/2017	31.3				0.944
9/22/2017		4.24	32.2		
9/26/2017	29.5			4.14	
9/27/2017					0.773
12/28/2017			29 (Y)		
3/14/2018	32.6	3.6			
3/15/2018			28	9	0.77
9/12/2018		3.7	28.7	4.1	
9/13/2018					0.79
9/14/2018	30.5				
3/13/2019		2.9	29.2		
3/14/2019	32			17.2 (X)	0.9
9/10/2019	34				
9/11/2019		3.2	29.5	7.1	0.83
3/6/2020	38				
3/9/2020		2.6	31.7		
3/10/2020				16.9	0.89 (J)
9/10/2020	31.1				
9/11/2020		9			0.81 (J)
9/14/2020			31		
9/15/2020				8.3	
3/11/2021	34.8	2.1	31.2	11.9	0.93 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		50	26	25	12
3/16/2016	36				
5/16/2016	37.4				
5/17/2016		50.5			3.25
5/18/2016			26.2	27.6	
7/25/2016	30.2				
7/26/2016		40.7			
7/27/2016			19.3	23.9	3.2
9/19/2016	32.3				
9/20/2016		38.8	25.3	28.9	2.72
11/3/2016	29.3				
11/4/2016		40.7		32.1	1.69
11/7/2016			23.6		
1/20/2017	28.7	38.8		31.8	
1/23/2017			25.1		<0.5
3/28/2017		48.3			1.72
3/29/2017	34.9		28.9	34.6	
6/7/2017	30.9	43.4			
6/8/2017			25.6	34	3.11
9/27/2017	34.2		23.8	30.8	
9/29/2017		46.6			2.71
3/15/2018	34.6	46.2	21.6 (J)		3.5
3/16/2018				30.2	
9/13/2018	36.1	45.3	23.8 (J)	30.9	2.5
3/14/2019	37				
3/15/2019			20.4 (X)		4.4
3/18/2019		46.1			
3/19/2019				28.4	
9/11/2019	37.2	43.1		33.3	2.9
9/12/2019			21.1		
3/9/2020			22.3	35	4.5
3/10/2020	43.5	51.6			
9/11/2020	35.3				
9/14/2020		40.2	20.9		3.5
9/15/2020				31.6	
3/11/2021	43.1	45.2	21.1	31.8	5.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	24	6.4
5/18/2016	27.7	4.63
7/27/2016	21.7	
7/28/2016		2.25
9/21/2016	24.9	1.86
11/4/2016	23.6	
11/7/2016		1.65
1/24/2017	23	1.62
3/29/2017	27.5	
3/30/2017		1.27
6/8/2017	27.1	
6/9/2017		1.18
9/29/2017	25.3	0.967
3/15/2018	24.4 (J)	0.81
9/13/2018	22.8 (J)	
9/14/2018		0.7
3/18/2019	31	
3/19/2019		1.1
9/11/2019	24.3	0.78
3/9/2020		0.87 (J)
3/11/2020	27.1	
9/11/2020	24.7	
9/14/2020		0.65 (J)
3/15/2021	24.7	0.69 (J)

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		1.795			
3/15/2016			1.1671	4.1666	6.1465
5/11/2016		2.04	0.8763		
5/12/2016				1.78	
5/13/2016					3.08
5/16/2016	1.74 (D)				
7/19/2016		2.1			
7/20/2016				1.8	
7/21/2016			1.4		3.7
7/27/2016	2.1 (D)				
9/15/2016		1.7		1.4	
9/19/2016			1.1		
9/21/2016					2.4
11/2/2016		1.8			
11/3/2016			1.2	1.6	3.4
1/17/2017			1		1.9
1/18/2017		1.7		1.5	
2/21/2017	4 (D)				
3/24/2017			1.2	1.4	
3/27/2017	2.6 (D)				2.4
3/28/2017		1.3			
5/24/2017			1.5		
6/6/2017				2.8	4.5
6/7/2017		1.2			
6/8/2017	2.1 (D)				
7/17/2017	1.9 (D)				
7/27/2017	3 (D)				
8/9/2017	2.5 (D)				
9/25/2017				1.8	2.5
9/26/2017		1.7	2.4		
9/29/2017	2.7 (D)				
12/28/2017			3.9 (Y)		
3/14/2018		1.4	2.4	3	4 (J)
3/16/2018	2.6				
9/12/2018		1.6	1	1.4	2.1
9/14/2018	1.9				
3/13/2019			2.2		
3/14/2019	2.8			2.6	2.9
3/15/2019		1.7			
9/9/2019		1.2	0.83 (X)		
9/10/2019	2.3			1.1	1.7
3/6/2020				1.3	
3/9/2020	1.5	1.2	1.5		1.3
9/10/2020		1.2		1.2	1.4
9/11/2020			0.77 (J)		
9/16/2020	1.7				
3/10/2021			0.97 (J)		1.6
3/11/2021				1.5	
3/12/2021		1.2			
3/16/2021	1.3				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	2.4984	1.2562	1.9467		
3/16/2016				6.505	0.9445
5/13/2016		1.32	2.14		
5/16/2016	2.22			5.08	0.9104
7/19/2016		1.3	3.1		
7/22/2016	2.6				
7/25/2016				1.2	1.2
9/16/2016		1.2	3.5		
9/19/2016	2.5			1.9	1.1
11/2/2016		1.4	4.7		
11/3/2016	3			2	
11/4/2016					1
1/17/2017	2.9				
1/18/2017		1.2	4.9		
1/19/2017				2.6	
1/23/2017					1.2
3/27/2017	3				
3/28/2017		1.4	4.1	5.7	
3/29/2017					1.1
6/5/2017				7.8	
6/6/2017		1.4	3.6		
6/7/2017	3				1
7/20/2017				7.4	
9/22/2017		1.3	3.9		
9/26/2017	3.1			3.7	
9/27/2017					1.1
3/14/2018	3.2	1.3			
3/15/2018			2.8	6.5	<1.1
9/12/2018		1.3	3.1	3.6	
9/13/2018					0.93
9/14/2018	2.3				
3/13/2019		1.6	2.9		
3/14/2019	3.6			6.4	<1.1
9/10/2019	2				
9/11/2019		1.3	3.1	3.7	0.81 (X)
3/6/2020	2.7				
3/9/2020		1.2	2.2		
3/10/2020				5.9	0.8 (J)
9/10/2020	2				
9/11/2020		1.3			0.79 (J)
9/14/2020			3.3		
9/15/2020				4.2	
3/11/2021	2.5	1.3	2.7	5.5	0.83 (J)

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		1.9859	2.2206	2.5934	2.4266
3/16/2016	3.0774				
5/16/2016	3				
5/17/2016		2.37			2.01
5/18/2016			2.42	2.51	
7/25/2016	3				
7/26/2016		2.4			
7/27/2016			2.4	2.5	2.3
9/19/2016	3				
9/20/2016		2.4	2.4	2.4	2.2
11/3/2016	3				
11/4/2016		2.8		2.9	3
11/7/2016			2.8		
1/20/2017	3.3	2.2		2.7	
1/23/2017			2.4		2.5
3/28/2017		2.3			2.2
3/29/2017	3.2		2.8	2.3	
6/7/2017	3.1	2.3			
6/8/2017			2.5	2.3	2.3
9/27/2017	3.2		2.4	2.4	
9/29/2017		2.1			2.5
3/15/2018	3.3	2	2.7		2.6
3/16/2018				2.7	
9/13/2018	2.9	1.9	2.6	2.5	2.8
3/14/2019	4.3				
3/15/2019			2.8		3.3
3/18/2019		1.8			
3/19/2019				2.6	
9/11/2019	2.9	1.4		2.1	3.3
9/12/2019			2.3		
3/9/2020			2.3	2.3	3.4
3/10/2020	4.4	1.2			
9/11/2020	3.1				
9/14/2020		1.1	2.2		4
9/15/2020				2.2	
3/11/2021	4	1.1	2.3	2.4	4.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	1.4476	1.0624
5/18/2016	1.43	1.41
7/27/2016	1.6	
7/28/2016		1.4
9/21/2016	1.6	1.2
11/4/2016	1.6	
11/7/2016		1.4
1/24/2017	1.7	<1.1 (*)
3/29/2017	1.6	
3/30/2017		1.2
6/8/2017	1.6	
6/9/2017		1.1
9/29/2017	1.7	1.2
3/15/2018	1.6	1.4
9/13/2018	1.3	
9/14/2018		1.1
3/18/2019	2.7	
3/19/2019		<1.1
9/11/2019	1.4	1
3/9/2020		1
3/11/2020	1.4	
9/11/2020	1.2	
9/14/2020		0.98 (J)
3/15/2021	1.2	0.98 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.005			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		<0.005	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	<0.005 (D)				
7/19/2016		<0.005			
7/20/2016				<0.005	
7/21/2016			<0.005		<0.005
7/27/2016	0.0017 (JD)				
9/15/2016		<0.005	<0.005	<0.005	
9/21/2016					<0.005
11/2/2016		<0.005			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		<0.005		<0.005	
2/21/2017	0.001 (J)				
3/24/2017			<0.005 (*)	<0.005 (*)	
3/27/2017	<0.005 (D)				<0.005
3/28/2017		<0.005 (*)			
5/24/2017			0.0008 (J)		
6/6/2017				<0.005	0.0004 (J)
6/7/2017		<0.005			
6/8/2017	<0.005 (D)				
7/17/2017	<0.005 (D)				
7/27/2017	0.0005 (J)				
8/9/2017	0.0005 (J)				
9/25/2017				<0.005	<0.005
9/26/2017		<0.005	0.0005 (J)		
9/29/2017	0.0006 (JD)				
3/14/2018		<0.005	<0.005	<0.005	<0.005
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	<0.005
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	0.004 (J)			<0.005	<0.005
3/15/2019		<0.005			
9/9/2019		<0.005	<0.005		
9/10/2019				<0.005 (D)	<0.005
3/6/2020				0.015	
3/9/2020	0.0016 (J)	0.069	0.0009 (J)		0.0004 (J)
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	0.00058 (J)				
3/10/2021			0.00075 (J)		<0.005
3/11/2021				0.0015 (J)	
3/12/2021		0.00064 (J)			
3/16/2021	0.0008 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	<0.005	0.00212 (J)		
3/16/2016				<0.005	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			<0.005	<0.005
7/19/2016		<0.005	0.0006 (J)		
7/22/2016	<0.005				
7/25/2016				<0.005	<0.005
9/16/2016		<0.005	<0.005		
9/19/2016	<0.005			<0.005	<0.005
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			<0.005	
11/4/2016					<0.005
1/17/2017	<0.005				
1/18/2017		<0.005	0.0014 (J)		
1/19/2017				<0.005	
1/23/2017					<0.005
3/27/2017	<0.005				
3/28/2017		<0.005 (*)	<0.005 (*)	<0.005	
3/29/2017					<0.005
6/5/2017				<0.005	
6/6/2017		0.0004 (J)	0.0009 (J)		
6/7/2017	<0.005				<0.005
9/22/2017		0.0008 (J)	0.0006 (J)		
9/26/2017	<0.005			<0.005	
9/27/2017					<0.005
3/14/2018	<0.005	<0.005			
3/15/2018			0.0017 (J)	<0.005	<0.005
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					<0.005
9/14/2018	<0.005				
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005			<0.005	<0.005
9/10/2019	<0.005				
9/11/2019		0.00051 (J)	0.00066 (J)	<0.005	<0.005
3/6/2020	0.00045 (J)				
3/9/2020		0.0033 (J)	0.0014 (J)		
3/10/2020				0.00074 (J)	0.0007 (J)
9/10/2020	<0.005				
9/11/2020		<0.005			<0.005
9/14/2020			0.0011 (J)		
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	0.0011 (J)	<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	0.0439 (o)	0.00136 (J)	0.000148 (J)
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			<0.005
5/18/2016			0.00248 (J)	0.00606 (Jo)	
7/25/2016	<0.005				
7/26/2016		0.0017 (J)			
7/27/2016			0.0021 (J)	0.0023 (J)	0.0017 (J)
9/19/2016	<0.005				
9/20/2016		0.0015 (J)	0.002 (J)	0.0021 (J)	0.0024 (J)
11/3/2016	<0.005				
11/4/2016		0.0016 (J)		0.0016 (J)	0.0013 (J)
11/7/2016			0.0023 (J)		
1/20/2017	<0.005	0.0018 (J)		0.0016 (J)	
1/23/2017			0.0011 (J)		<0.005
3/28/2017		<0.005 (*)			<0.005 (*)
3/29/2017	<0.005		0.0012 (J)	0.001 (J)	
6/7/2017	0.0004 (J)	0.0018 (J)			
6/8/2017			0.0015 (J)	0.0024 (J)	0.0016 (J)
9/27/2017	<0.005		0.0021 (J)	0.0021 (J)	
9/29/2017		0.0033 (J)			0.002 (J)
3/15/2018	<0.005	0.0021 (J)	0.0023 (J)		<0.005
3/16/2018				0.003 (J)	
9/13/2018	<0.005	0.0041 (J)	<0.005	0.0017 (J)	<0.005
3/14/2019	<0.005				
3/15/2019			<0.005		0.0023 (J)
3/18/2019		0.0022 (J)			
3/19/2019				0.018	
9/11/2019	<0.005	0.0038 (J)		0.0015 (J)	0.00165 (JD)
9/12/2019			0.0014 (J)		
3/9/2020			0.0012 (J)	0.0023 (J)	0.0023 (J)
3/10/2020	0.00092 (J)	0.0035 (J)			
9/11/2020	0.00067 (J)				
9/14/2020		0.006 (J)	0.0022 (J)		0.0024 (J)
9/15/2020				0.0017 (J)	
3/11/2021	<0.005	0.0059	0.0013 (J)	0.0019 (J)	0.0021 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	0.017 (J)
5/18/2016	<0.005	<0.005
7/27/2016	0.0006 (J)	
7/28/2016		0.0014 (J)
9/21/2016	0.0011 (J)	0.0009 (J)
11/4/2016	<0.005	
11/7/2016		<0.005
1/24/2017	<0.005	<0.005
3/29/2017	0.0004 (J)	
3/30/2017		<0.005
6/8/2017	0.0005 (J)	
6/9/2017		<0.005
9/29/2017	0.0005 (J)	<0.005
3/15/2018	<0.005	<0.005
9/13/2018	<0.005	
9/14/2018		<0.005
3/18/2019	<0.005	
3/19/2019		0.0017 (J)
9/11/2019	0.00063 (J)	0.002 (J)
3/9/2020		0.00096 (J)
3/11/2020	0.0012 (J)	
9/11/2020	<0.005	
9/14/2020		<0.005
3/15/2021	0.00076 (J)	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		0.00503 (J)			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		0.0114	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	0.00313 (JD)				
7/19/2016		0.0013 (J)			
7/20/2016				<0.005	
7/21/2016			<0.005		0.0006 (J)
7/27/2016	0.0057 (JD)				
9/15/2016		0.002 (J)	<0.005	<0.005	
9/21/2016					<0.005
11/2/2016		0.0005 (J)			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		0.0015 (J)		<0.005	
2/21/2017	<0.005				
3/24/2017			<0.005	<0.005	
3/27/2017	<0.005 (D)				0.0005 (J)
3/28/2017		0.0025 (J)			
5/24/2017			<0.005		
6/6/2017				<0.005	<0.005
6/7/2017		0.0023 (J)			
6/8/2017	<0.005 (D)				
7/17/2017	<0.005 (D)				
7/27/2017	<0.005				
8/9/2017	<0.005				
9/25/2017				<0.005	0.0006 (J)
9/26/2017		0.0011 (J)	<0.005		
9/29/2017	<0.005 (D)				
3/14/2018		0.00058 (J)	<0.005	<0.005	<0.005
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	0.0011 (J)
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	<0.005			<0.005	<0.005
3/15/2019		<0.005			
9/9/2019		<0.005	<0.005		
9/10/2019				<0.005 (D)	<0.005
3/6/2020				<0.005	
3/9/2020	<0.005	0.00075 (J)	<0.005		<0.005
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		0.00079 (J)			
3/16/2021	<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	<0.005	<0.005		
3/16/2016				0.00101 (J)	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			<0.005	<0.005
7/19/2016		<0.005	<0.005		
7/22/2016	0.0004 (J)				
7/25/2016				0.0015 (J)	0.0017 (J)
9/16/2016		<0.005	<0.005		
9/19/2016	<0.005			0.0014 (J)	0.0017 (J)
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			0.0013 (J)	
11/4/2016					0.0013 (J)
1/17/2017	<0.005				
1/18/2017		<0.005	<0.005		
1/19/2017				0.0013 (J)	
1/23/2017					0.0013 (J)
3/27/2017	<0.005				
3/28/2017		<0.005	<0.005	0.0019 (J)	
3/29/2017					0.0013 (J)
6/5/2017				0.0022 (J)	
6/6/2017		<0.005	<0.005		
6/7/2017	<0.005				0.0011 (J)
9/22/2017		<0.005	<0.005		
9/26/2017	<0.005			0.0018 (J)	
9/27/2017					0.0013 (J)
3/14/2018	<0.005	<0.005			
3/15/2018			<0.005	0.0018 (J)	0.0012 (J)
9/12/2018		<0.005	<0.005	0.0016 (J)	
9/13/2018					0.001 (J)
9/14/2018	<0.005				
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005			0.0022 (J)	0.0015 (J)
9/10/2019	<0.005				
9/11/2019		<0.005	<0.005	0.0018 (J)	0.0014 (J)
3/6/2020	0.00039 (J)				
3/9/2020		0.00039 (J)	<0.005		
3/10/2020				0.0021 (J)	0.0012 (J)
9/10/2020	<0.005				
9/11/2020		<0.005			0.0012 (J)
9/14/2020			<0.005		
9/15/2020				0.0015 (J)	
3/11/2021	<0.005	<0.005	<0.005	0.0016 (J)	0.0011 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	<0.005	0.00207 (J)
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			0.0025 (J)
5/18/2016			<0.005	<0.005	
7/25/2016	<0.005				
7/26/2016		0.0006 (J)			
7/27/2016			<0.005	<0.005	0.0014 (J)
9/19/2016	<0.005				
9/20/2016		<0.005	<0.005	<0.005	0.0015 (J)
11/3/2016	<0.005				
11/4/2016		<0.005		<0.005	0.0014 (J)
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		<0.005			0.0015 (J)
3/29/2017	<0.005		<0.005	<0.005	
6/7/2017	<0.005	<0.005			
6/8/2017			<0.005	<0.005	0.0016 (J)
9/27/2017	<0.005		<0.005	<0.005	
9/29/2017		<0.005			0.0015 (J)
3/15/2018	<0.005	<0.005	<0.005		0.0013 (J)
3/16/2018				<0.005	
9/13/2018	<0.005	<0.005	<0.005	<0.005	0.0013 (J)
3/14/2019	<0.005				
3/15/2019			<0.005		0.0012 (J)
3/18/2019		<0.005			
3/19/2019				<0.005	
9/11/2019	<0.005	<0.005		<0.005	0.00135 (JD)
9/12/2019			<0.005		
3/9/2020			<0.005	<0.005	0.0016 (J)
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		0.0017 (J)
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	0.0025 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	<0.005
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		0.0026 (J)
9/21/2016	<0.005	0.0044 (J)
11/4/2016	<0.005	
11/7/2016		0.0044 (J)
1/24/2017	<0.005	0.0049 (J)
3/29/2017	<0.005	
3/30/2017		0.0041 (J)
6/8/2017	<0.005	
6/9/2017		0.0054 (J)
9/29/2017	<0.005	0.0038 (J)
3/15/2018	<0.005	0.0026 (J)
9/13/2018	<0.005	
9/14/2018		0.0017 (J)
3/18/2019	<0.005	
3/19/2019		0.00069 (J)
9/11/2019	<0.005	0.00075 (J)
3/9/2020		0.0028 (J)
3/11/2020	<0.005	
9/11/2020	<0.005	
9/14/2020		0.0014 (J)
3/15/2021	<0.005	0.00056 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.005			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		<0.005	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	<0.005 (D)				
7/19/2016		0.0005 (J)			
7/20/2016				<0.005	
7/21/2016			<0.005		0.0005 (J)
7/27/2016	0.0271 (D)				
9/15/2016		<0.005	<0.005	0.0007 (J)	
9/21/2016					<0.005
11/2/2016		<0.005			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		<0.005		<0.005	
2/21/2017	<0.005				
3/24/2017			<0.005	<0.005	
3/27/2017	<0.005 (D)				<0.005
3/28/2017		<0.005 (*)			
9/25/2017				0.0003 (J)	0.0007 (J)
9/26/2017		0.0005 (J)	<0.005		
9/29/2017	<0.005 (D)				
3/14/2018		<0.005	<0.005	<0.005	0.0021 (J)
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	<0.005
9/14/2018	0.002 (J)				
3/13/2019			<0.005		
3/14/2019	<0.005			<0.005	0.0022 (J)
3/15/2019		<0.005			
9/9/2019		<0.005	0.0022 (J)		
9/10/2019				0.00038 (JD)	0.0022 (J)
3/6/2020				0.00093 (J)	
3/9/2020	0.011 (J)	0.0007 (J)	<0.005		0.0014 (J)
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		<0.005			
3/16/2021	<0.005				

Time Series

Constituent: Copper (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	<0.005	<0.005		
3/16/2016				<0.005	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			<0.005	<0.005
7/19/2016		<0.005	<0.005		
7/22/2016	<0.005				
7/25/2016				0.0005 (J)	<0.005
9/16/2016		<0.005	<0.005		
9/19/2016	0.003 (J)			<0.005	0.0032 (J)
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			<0.005	
11/4/2016					0.0006 (J)
1/17/2017	<0.005				
1/18/2017		<0.005	<0.005		
1/19/2017				<0.005	
1/23/2017					0.0008 (J)
3/27/2017	<0.005				
3/28/2017		<0.005 (*)	<0.005 (*)	<0.005 (*)	
3/29/2017					0.0005 (J)
9/22/2017		0.0004 (J)	0.0006 (J)		
9/26/2017	<0.005			0.0006 (J)	
9/27/2017					0.0014 (J)
3/14/2018	<0.005	<0.005			
3/15/2018			<0.005	<0.005	<0.005
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					<0.005
9/14/2018	<0.005				
3/13/2019		<0.005	0.0015 (J)		
3/14/2019	<0.005			<0.005	<0.005
9/10/2019	<0.005				
9/11/2019		0.00036 (J)	0.00026 (J)	0.00043 (J)	0.012 (J)
3/6/2020	0.00019 (J)				
3/9/2020		0.00035 (J)	0.00035 (J)		
3/10/2020				0.00067 (J)	0.00031 (J)
9/10/2020	<0.005				
9/11/2020		<0.005			<0.005
9/14/2020			<0.005		
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Copper (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	<0.005	<0.005
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			<0.005
5/18/2016			<0.005	<0.005	
7/25/2016	<0.005				
7/26/2016		<0.005			
7/27/2016			<0.005	<0.005	<0.005
9/19/2016	<0.005				
9/20/2016		0.0008 (J)	0.0011 (J)	0.001 (J)	0.0018 (J)
11/3/2016	<0.005				
11/4/2016		<0.005		<0.005	<0.005
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		<0.005			<0.005 (*)
3/29/2017	0.0022 (J)		0.0003 (J)	0.0003 (J)	
9/27/2017	<0.005		<0.005	0.0011 (J)	
9/29/2017		<0.005			0.0003 (J)
3/15/2018	<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
3/14/2019	<0.005				
3/15/2019			<0.005		<0.005
3/18/2019		<0.005			
3/19/2019				<0.005	
9/11/2019	<0.005	<0.005		0.0008 (J)	0.000535 (JD)
9/12/2019			<0.005		
3/9/2020			<0.005	0.00032 (J)	0.00035 (J)
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		<0.005
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Copper (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	<0.005
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		0.0007 (J)
9/21/2016	<0.005	0.0018 (J)
11/4/2016	<0.005	
11/7/2016		<0.005
1/24/2017	<0.005	<0.005
3/29/2017	<0.005	
3/30/2017		0.0003 (J)
9/29/2017	<0.005	<0.005
3/15/2018	<0.005	<0.005
9/13/2018	<0.005	
9/14/2018		<0.005
3/18/2019	<0.005	
3/19/2019		<0.005
9/11/2019	<0.005	0.00021 (J)
3/9/2020		0.00035 (J)
3/11/2020	<0.005	
9/11/2020	<0.005	
9/14/2020		<0.005
3/15/2021	<0.005	<0.005

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		0.0657 (J)			
3/15/2016			<0.1	0.0285 (J)	0.0394 (J)
5/11/2016		0.0401 (J)	0.0255 (J)		
5/12/2016				0.022 (J)	
5/13/2016					0.0234 (J)
5/16/2016	0.0202 (JD)				
7/19/2016		<0.1			
7/20/2016				<0.1	
7/21/2016			<0.1		<0.1
7/27/2016	0.08 (JD)				
9/15/2016		<0.1		<0.1	
9/19/2016			<0.1		
9/21/2016					<0.1
11/2/2016		0.04 (J)			
11/3/2016			0.11 (J)	0.05 (J)	0.12 (J)
1/17/2017			0.02 (J)		0.01 (J)
1/18/2017		0.03 (J)		0.02 (J)	
2/21/2017	0.17 (JD)				
3/24/2017			<0.1	<0.1	
3/27/2017	0.09 (JD)				<0.1
3/28/2017		0.06 (J)			
5/24/2017			<0.1		
6/6/2017				<0.1	<0.1
6/7/2017		0.06 (J)			
6/8/2017	0.05 (JD)				
7/17/2017	0.05 (JD)				
7/27/2017	0.08 (JD)				
8/9/2017	<0.1 (*)				
9/25/2017				<0.1	<0.1
9/26/2017		0.04 (J)	<0.1		
9/29/2017	0.04 (JD)				
3/14/2018		0.14 (J)	0.055 (J)	<0.1	<0.1
3/16/2018	0.27 (J)				
9/12/2018		<0.1	<0.1	<0.1	<0.1
9/14/2018	0.1 (J)				
3/13/2019			0.045 (X)		
3/14/2019	0.066 (X)			0.039 (X)	0.04 (X)
3/15/2019		<0.1			
9/9/2019		0.054 (X)	<0.1		
9/10/2019	0.055 (X)			<0.1	<0.1
3/6/2020				<0.1	
3/9/2020	<0.1	<0.1	<0.1		<0.1
9/10/2020		<0.1		<0.1	<0.1
9/11/2020			<0.1		
9/16/2020	<0.1				
3/10/2021			<0.1		<0.1
3/11/2021				<0.1	
3/12/2021		0.051 (J)			
3/16/2021	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	0.0296 (J)	0.0329 (J)	0.0141 (J)		
3/16/2016				0.00218 (J)	<0.1
5/13/2016		0.0459 (J)	0.0141 (J)		
5/16/2016	0.0287 (J)			0.0415 (J)	<0.1
7/19/2016		<0.1	<0.1		
7/22/2016	0.04 (J)				
7/25/2016				0.14 (J)	0.02 (J)
9/16/2016		<0.1	<0.1		
9/19/2016	<0.1			<0.1	<0.1
11/2/2016		0.04 (J)	0.04 (J)		
11/3/2016	0.04 (J)			0.06 (J)	
11/4/2016					0.04 (J)
1/17/2017	0.02 (J)				
1/18/2017		<0.1	0.02 (J)		
1/19/2017				0.009 (J)	
1/23/2017					0.006 (J)
3/27/2017	<0.1				
3/28/2017		<0.1	<0.1	0.04 (J)	
3/29/2017					<0.1
6/5/2017				0.06 (J)	
6/6/2017		<0.1	<0.1		
6/7/2017	<0.1				<0.1
7/20/2017				0.21 (J)	
9/22/2017		<0.1	<0.1		
9/26/2017	<0.1			0.14 (J)	
9/27/2017					<0.1
3/14/2018	0.06 (J)	<0.1			
3/15/2018			<0.1	0.11 (J)	<0.1
9/12/2018		<0.1	<0.1	0.062 (J)	
9/13/2018					<0.1
9/14/2018	<0.1				
3/13/2019		<0.1	0.036 (X)		
3/14/2019	0.058 (X)			0.13 (X)	<0.1
9/10/2019	<0.1				
9/11/2019		<0.1	<0.1	<0.1	<0.1
3/6/2020	<0.1				
3/9/2020		<0.1	<0.1		
3/10/2020				0.13 (J)	<0.1
9/10/2020	<0.1				
9/11/2020		<0.1			<0.1
9/14/2020			<0.1		
9/15/2020				<0.1	
3/11/2021	<0.1	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		0.00697 (J)	0.00337 (J)	0.00202 (J)	0.00797 (J)
3/16/2016	0.00244 (J)				
5/16/2016	0.0161 (J)				
5/17/2016		0.0281 (J)			0.0156 (J)
5/18/2016			0.059 (J)	0.065 (J)	
7/25/2016	0.14 (J)				
7/26/2016		<0.1			
7/27/2016			0.1 (J)	0.09 (J)	<0.1
9/19/2016	<0.1				
9/20/2016		<0.1	0.04 (J)	<0.1	0.03 (J)
11/3/2016	0.08 (J)				
11/4/2016		0.05 (J)		0.04 (J)	0.06 (J)
11/7/2016			0.1 (J)		
1/20/2017	0.01 (J)	0.01 (J)		0.009 (J)	
1/23/2017			0.13 (J)		0.02 (J)
3/28/2017		<0.1			<0.1
3/29/2017	<0.1		0.04 (J)	<0.1	
6/7/2017	<0.1	<0.1			
6/8/2017			0.05 (J)	<0.1 (*)	0.06 (J)
9/27/2017	<0.1		0.04 (J)	<0.1	
9/29/2017		<0.1			<0.1
3/15/2018	<0.1	<0.1	<0.1		<0.1
3/16/2018				0.13 (J)	
9/13/2018	<0.1	<0.1	0.047 (J)	<0.1	<0.1
3/14/2019	0.039 (X)				
3/15/2019			<0.1		<0.1
3/18/2019		<0.1			
3/19/2019				<0.1	
9/11/2019	<0.1	<0.1		<0.1	<0.1
9/12/2019			<0.1		
3/9/2020			<0.1	<0.1	<0.1
3/10/2020	<0.1	<0.1			
9/11/2020	<0.1				
9/14/2020		<0.1	<0.1		<0.1
9/15/2020				<0.1	
3/11/2021	<0.1	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.1	0 (J)
5/18/2016	0.022 (J)	0.015 (J)
7/27/2016	0.07 (J)	
7/28/2016		0.08 (J)
9/21/2016	<0.1	<0.1
11/4/2016	0.03 (J)	
11/7/2016		<0.1
1/24/2017	<0.1	<0.1
3/29/2017	<0.1	
3/30/2017		<0.1
6/8/2017	<0.1 (*)	
6/9/2017		<0.1
9/29/2017	<0.1	<0.1
3/15/2018	<0.1	<0.1
9/13/2018	<0.1	
9/14/2018		<0.1
3/18/2019	<0.1	
3/19/2019		<0.1
9/11/2019	<0.1	<0.1
3/9/2020		<0.1
3/11/2020	<0.1	
9/11/2020	<0.1	
9/14/2020		<0.1
3/15/2021	<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.001			
3/15/2016			<0.001	<0.001	<0.001
5/11/2016		<0.001	<0.001		
5/12/2016				<0.001	
5/13/2016					<0.001
5/16/2016	<0.001 (D)				
7/19/2016		<0.001			
7/20/2016				<0.001	
7/21/2016			<0.001		0.0001 (J)
7/27/2016	0.0011 (JD)				
9/15/2016		<0.001	<0.001	<0.001	
9/21/2016					<0.001
11/2/2016		<0.001			
11/3/2016			<0.001	<0.001	<0.001
1/17/2017			<0.001		<0.001
1/18/2017		<0.001		<0.001	
2/21/2017	<0.001				
3/24/2017			<0.001 (*)	<0.001	
3/27/2017	<0.001 (D)				<0.001
3/28/2017		<0.001 (*)			
5/24/2017			0.0001 (J)		
6/6/2017				<0.001	<0.001
6/7/2017		8E-05 (J)			
6/8/2017	<0.001 (D)				
7/17/2017	<0.001 (D)				
7/27/2017	0.0001 (J)				
8/9/2017	<0.001				
9/25/2017				<0.001	0.0001 (J)
9/26/2017		0.0002 (J)	0.0001 (J)		
9/29/2017	<0.001 (D)				
3/14/2018		<0.001	0.00046 (J)	<0.001	0.00031 (J)
3/16/2018	<0.001				
9/12/2018		<0.001	<0.001	<0.001	<0.001
9/14/2018	<0.001				
3/13/2019			<0.001		
3/14/2019	<0.001			<0.001	0.00031 (J)
3/15/2019		<0.001			
9/9/2019		<0.001	<0.001		
9/10/2019				<0.001 (D)	<0.001
3/6/2020				9.1E-05 (J)	
3/9/2020	0.00027 (J)	5.5E-05 (J)	9.5E-05 (J)		4.9E-05 (J)
9/10/2020		<0.001		<0.001	<0.001
9/11/2020			<0.001		
9/16/2020	0.0005 (J)				
3/10/2021			<0.001		0.00012 (J)
3/11/2021				<0.001	
3/12/2021		0.0002 (J)			
3/16/2021	0.0002 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.001	<0.001	<0.001		
3/16/2016				<0.001	<0.001
5/13/2016		<0.001	<0.001		
5/16/2016	<0.001			<0.001	<0.001
7/19/2016		<0.001	<0.001		
7/22/2016	0.0001 (J)				
7/25/2016				0.0003 (J)	0.0002 (J)
9/16/2016		<0.001	<0.001		
9/19/2016	0.0002 (J)			0.0002 (J)	0.0004 (J)
11/2/2016		<0.001	<0.001		
11/3/2016	<0.001			0.0002 (J)	
11/4/2016					0.0002 (J)
1/17/2017	<0.001				
1/18/2017		<0.001	<0.001		
1/19/2017				0.0003 (J)	
1/23/2017					0.0001 (J)
3/27/2017	<0.001				
3/28/2017		<0.001	<0.001	<0.001 (*)	
3/29/2017					0.0001 (J)
6/5/2017				0.0007 (J)	
6/6/2017		7E-05 (J)	0.0001 (J)		
6/7/2017	<0.001				0.0001 (J)
9/22/2017		8E-05 (J)	7E-05 (J)		
9/26/2017	<0.001			0.0004 (J)	
9/27/2017					0.0003 (J)
3/14/2018	<0.001	<0.001			
3/15/2018			0.0038 (J)	0.00064 (J)	<0.001
9/12/2018		<0.001	<0.001	0.00037 (J)	
9/13/2018					<0.001
9/14/2018	<0.001				
3/13/2019		<0.001	<0.001		
3/14/2019	<0.001			0.00077 (J)	<0.001
9/10/2019	<0.001				
9/11/2019		0.0001 (J)	9.2E-05 (J)	0.00047 (J)	0.00016 (J)
3/6/2020	0.00011 (J)				
3/9/2020		9.1E-05 (J)	9.6E-05 (J)		
3/10/2020				0.00066 (J)	0.00014 (J)
9/10/2020	<0.001				
9/11/2020		4.6E-05 (J)			0.00012 (J)
9/14/2020			6.6E-05 (J)		
9/15/2020				0.00045 (J)	
3/11/2021	<0.001	6.3E-05 (J)	0.00013 (J)	0.00053 (J)	0.00012 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.001	<0.001	<0.001	<0.001
3/16/2016	<0.001				
5/16/2016	<0.001				
5/17/2016		<0.001			<0.001
5/18/2016			<0.001	<0.001	
7/25/2016	0.0001 (J)				
7/26/2016		<0.001			
7/27/2016			9E-05 (J)	9E-05 (J)	<0.001
9/19/2016	<0.001				
9/20/2016		<0.001	0.0003 (J)	0.0001 (J)	0.0002 (J)
11/3/2016	<0.001				
11/4/2016		<0.001		<0.001	<0.001
11/7/2016			<0.001		
1/20/2017	<0.001	<0.001		<0.001	
1/23/2017			<0.001		<0.001
3/28/2017		<0.001			<0.001 (*)
3/29/2017	0.0001 (J)		<0.001	<0.001	
6/7/2017	8E-05 (J)	<0.001			
6/8/2017			0.0001 (J)	<0.001	<0.001
9/27/2017	9E-05 (J)		<0.001	<0.001	
9/29/2017		<0.001			<0.001
3/15/2018	<0.001	<0.001	<0.001		<0.001
3/16/2018				<0.001	
9/13/2018	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2019	<0.001				
3/15/2019			<0.001		<0.001
3/18/2019		<0.001			
3/19/2019				<0.001	
9/11/2019	<0.001	<0.001		8.5E-05 (J)	0.002529 (D)
9/12/2019			<0.001		
3/9/2020			5.8E-05 (J)	8E-05 (J)	<0.001
3/10/2020	<0.001	<0.001			
9/11/2020	<0.001				
9/14/2020		<0.001	<0.001		<0.001
9/15/2020				<0.001	
3/11/2021	4.5E-05 (J)	<0.001	4.8E-05 (J)	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/27/2016	<0.001	
7/28/2016		0.0002 (J)
9/21/2016	<0.001	<0.001 (*)
11/4/2016	<0.001	
11/7/2016		<0.001
1/24/2017	<0.001	0.0002 (J)
3/29/2017	<0.001	
3/30/2017		<0.001
6/8/2017	<0.001	
6/9/2017		<0.001
9/29/2017	<0.001	<0.001
3/15/2018	<0.001	<0.001
9/13/2018	<0.001	
9/14/2018		<0.001
3/18/2019	<0.001	
3/19/2019		<0.001
9/11/2019	<0.001	8.2E-05 (J)
3/9/2020		0.00017 (J)
3/11/2020	<0.001	
9/11/2020	<0.001	
9/14/2020		7.8E-05 (J)
3/15/2021	<0.001	4.6E-05 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.0002			
3/15/2016			<0.0002	<0.0002	<0.0002
5/11/2016		<0.0002	<0.0002		
5/12/2016				<0.0002	
5/13/2016					<0.0002
5/16/2016	<0.0002 (D)				
7/19/2016		<0.0002			
7/20/2016				<0.0002	
7/21/2016			<0.0002		<0.0002
7/27/2016	<0.0002 (D)				
9/15/2016		<0.0002	<0.0002	<0.0002	
9/21/2016					<0.0002
11/2/2016		<0.0002			
11/3/2016			<0.0002	<0.0002	<0.0002
1/17/2017			<0.0002		<0.0002
1/18/2017		<0.0002		<0.0002	
2/21/2017	<0.0002				
3/24/2017			<0.0002	<0.0002	
3/27/2017	<0.0002 (D)				<0.0002
3/28/2017		<0.0002			
5/24/2017			<0.0002		
6/6/2017				<0.0002	<0.0002
6/7/2017		<0.0002			
6/8/2017	<0.0002 (D)				
7/17/2017	<0.0002 (D)				
7/27/2017	<0.0002				
8/9/2017	<0.0002				
9/25/2017				<0.0002	<0.0002
9/26/2017		<0.0002	<0.0002		
9/29/2017	<0.0002 (D)				
3/14/2018		<0.0002	<0.0002	<0.0002	<0.0002
3/16/2018	<0.0002				
9/12/2018		<0.0002	3.8E-05 (J)	<0.0002	<0.0002
9/14/2018	4.1E-05 (J)				
3/13/2019			<0.0002		
3/14/2019	<0.0002			<0.0002	<0.0002
3/15/2019		<0.0002			
9/9/2019		<0.0002	<0.0002		
9/10/2019				<0.0002 (D)	<0.0002
3/6/2020				<0.0002	
3/9/2020	<0.0002	<0.0002	<0.0002		<0.0002
9/10/2020		<0.0002		<0.0002	<0.0002
9/11/2020			<0.0002		
9/16/2020	<0.0002				
3/10/2021			<0.0002		<0.0002
3/11/2021				<0.0002	
3/12/2021		<0.0002			
3/16/2021	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.0002	<0.0002	<0.0002		
3/16/2016				<0.0002	<0.0002
5/13/2016		<0.0002	<0.0002		
5/16/2016	<0.0002			<0.0002	<0.0002
7/19/2016		<0.0002	<0.0002		
7/22/2016	<0.0002				
7/25/2016				<0.0002	<0.0002
9/16/2016		<0.0002	<0.0002		
9/19/2016	<0.0002			<0.0002	<0.0002
11/2/2016		<0.0002	<0.0002		
11/3/2016	<0.0002			<0.0002	
11/4/2016					<0.0002
1/17/2017	<0.0002				
1/18/2017		<0.0002	<0.0002		
1/19/2017				<0.0002	
1/23/2017					<0.0002
3/27/2017	<0.0002				
3/28/2017		<0.0002	<0.0002	<0.0002	
3/29/2017					<0.0002 (*)
6/5/2017				<0.0002	
6/6/2017		<0.0002	<0.0002		
6/7/2017	<0.0002				<0.0002
9/22/2017		<0.0002	<0.0002		
9/26/2017	<0.0002			<0.0002	
9/27/2017					<0.0002
3/14/2018	<0.0002	<0.0002			
3/15/2018			<0.0002	<0.0002	<0.0002
9/12/2018		<0.0002	3.9E-05 (J)	<0.0002	
9/13/2018					<0.0002
9/14/2018	3.8E-05 (J)				
3/13/2019		<0.0002	<0.0002		
3/14/2019	<0.0002			<0.0002	<0.0002
9/10/2019	<0.0002				
9/11/2019		<0.0002	<0.0002	<0.0002	<0.0002
3/6/2020	<0.0002				
3/9/2020		<0.0002	<0.0002		
3/10/2020				<0.0002	<0.0002
9/10/2020	<0.0002				
9/11/2020		<0.0002			<0.0002
9/14/2020			<0.0002		
9/15/2020				<0.0002	
3/11/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.0002	<0.0002	<0.0002	<0.0002
3/16/2016	<0.0002				
5/16/2016	<0.0002				
5/17/2016		<0.0002			<0.0002
5/18/2016			<0.0002	<0.0002	
7/25/2016	<0.0002				
7/26/2016		<0.0002			
7/27/2016			<0.0002	<0.0002	<0.0002
9/19/2016	<0.0002				
9/20/2016		<0.0002	<0.0002	<0.0002	<0.0002
11/3/2016	<0.0002				
11/4/2016		<0.0002		<0.0002	<0.0002
11/7/2016			<0.0002		
1/20/2017	<0.0002	<0.0002		<0.0002	
1/23/2017			<0.0002		<0.0002
3/28/2017		<0.0002			<0.0002
3/29/2017	<0.0002 (*)		<0.0002 (*)	<0.0002 (*)	
6/7/2017	<0.0002	<0.0002			
6/8/2017			<0.0002	<0.0002	<0.0002
9/27/2017	<0.0002		<0.0002	<0.0002	
9/29/2017		<0.0002			<0.0002
3/15/2018	<0.0002	<0.0002	<0.0002		<0.0002
3/16/2018				<0.0002	
9/13/2018	<0.0002	<0.0002	<0.0002	<0.0002	6.2E-05 (J)
3/14/2019	<0.0002				
3/15/2019			<0.0002		<0.0002
3/18/2019		<0.0002			
3/19/2019				5E-05 (J)	
9/11/2019	<0.0002	<0.0002		<0.0002	<0.0002 (D)
9/12/2019			<0.0002		
3/9/2020			<0.0002	<0.0002	<0.0002
3/10/2020	<0.0002	<0.0002			
9/11/2020	<0.0002				
9/14/2020		<0.0002	<0.0002		0.00015 (J)
9/15/2020				<0.0002	
3/11/2021	<0.0002	<0.0002	<0.0002	<0.0002	0.0002 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.0002	<0.0002
5/18/2016	<0.0002	<0.0002
7/27/2016	<0.0002	
7/28/2016		<0.0002
9/21/2016	<0.0002	<0.0002
11/4/2016	<0.0002	
11/7/2016		<0.0002
1/24/2017	5E-05 (J)	5E-05 (J)
3/29/2017	<0.0002 (*)	
3/30/2017		<0.0002 (*)
6/8/2017	<0.0002	
6/9/2017		<0.0002
9/29/2017	4E-05 (J)	<0.0002
3/15/2018	<0.0002	<0.0002
9/13/2018	<0.0002	
9/14/2018		<0.0002
3/18/2019	<0.0002	
3/19/2019		4.5E-05 (J)
9/11/2019	<0.0002	<0.0002
3/9/2020		<0.0002
3/11/2020	<0.0002	
9/11/2020	<0.0002	
9/14/2020		<0.0002
3/15/2021	<0.0002	<0.0002

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		0.00544 (J)			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		0.0149	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	0.0136 (D)				
7/19/2016		0.0044 (J)			
7/20/2016				0.0006 (J)	
7/21/2016			<0.005		0.0009 (J)
7/27/2016	0.0224 (D)				
9/15/2016		0.0047 (J)	<0.005	0.0009 (J)	
9/21/2016					<0.005
11/2/2016		0.0025 (J)			
11/3/2016			<0.005	0.0011 (J)	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		0.004 (J)		0.0007 (J)	
2/21/2017	0.0007 (J)				
3/24/2017			<0.005 (*)	<0.005 (*)	
3/27/2017	<0.005 (D)				<0.005 (*)
3/28/2017		0.0034 (J)			
9/25/2017				<0.005	0.0012 (J)
9/26/2017		0.0016 (J)	<0.005		
9/29/2017	<0.005 (D)				
3/14/2018		<0.005	<0.005	<0.005	0.0014 (J)
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	0.0011 (J)
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	0.0017 (J)			<0.005	0.001 (J)
3/15/2019		<0.005			
9/9/2019		0.0014 (J)	<0.005		
9/10/2019				0.0004 (JD)	0.00084 (J)
3/6/2020				0.0089 (J)	
3/9/2020	0.00083 (J)	0.04	<0.005		0.00036 (J)
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		0.0015 (J)			
3/16/2021	<0.005				

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	0.00288 (J)	<0.005		
3/16/2016				<0.005	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	0.00233 (J)			<0.005	0.00316 (J)
7/19/2016		0.0006 (J)	<0.005		
7/22/2016	0.0014 (J)				
7/25/2016				0.0006 (J)	0.0013 (J)
9/16/2016		0.0008 (J)	<0.005		
9/19/2016	0.0014 (J)			0.0008 (J)	0.0013 (J)
11/2/2016		0.0007 (J)	<0.005		
11/3/2016	0.0013 (J)			0.0007 (J)	
11/4/2016					0.0015 (J)
1/17/2017	0.0011 (J)				
1/18/2017		0.0006 (J)	0.0006 (J)		
1/19/2017				0.0009 (J)	
1/23/2017					0.0015 (J)
3/27/2017	<0.005 (*)				
3/28/2017		<0.005 (*)	<0.005 (*)	<0.005 (*)	
3/29/2017					0.0012 (J)
9/22/2017		0.0007 (J)	<0.005		
9/26/2017	0.0011 (J)			0.0007 (J)	
9/27/2017					0.0014 (J)
3/14/2018	0.0012 (J)	<0.005			
3/15/2018			<0.005	<0.005	0.0011 (J)
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					0.001 (J)
9/14/2018	0.0012 (J)				
3/13/2019		<0.005	<0.005		
3/14/2019	0.0015 (J)			<0.005	0.001 (J)
9/10/2019	0.0012 (J)				
9/11/2019		0.00082 (J)	<0.005	0.00058 (J)	0.0012 (J)
3/6/2020	0.0015 (J)				
3/9/2020		0.00082 (J)	<0.005		
3/10/2020				0.00086 (J)	0.0012 (J)
9/10/2020	0.0011 (J)				
9/11/2020		0.00089 (J)			0.00099 (J)
9/14/2020			<0.005		
9/15/2020				<0.005	
3/11/2021	0.0011 (J)	<0.005	<0.005	<0.005	0.00092 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	<0.005	0.00235 (J)
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			0.00489 (J)
5/18/2016			<0.005	<0.005	
7/25/2016	<0.005				
7/26/2016		<0.005			
7/27/2016			<0.005	0.0007 (J)	0.0036 (J)
9/19/2016	<0.005				
9/20/2016		0.0013 (J)	<0.005	0.0007 (J)	0.0035 (J)
11/3/2016	<0.005				
11/4/2016		<0.005		0.0006 (J)	0.0035 (J)
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		<0.005			0.0033 (J)
3/29/2017	<0.005		0.0004 (J)	0.0003 (J)	
9/27/2017	<0.005		<0.005	<0.005	
9/29/2017		<0.005			0.0036 (J)
3/15/2018	<0.005	<0.005	<0.005		0.0033 (J)
3/16/2018				<0.005	
9/13/2018	<0.005	<0.005	<0.005	<0.005	0.0038 (J)
3/14/2019	<0.005				
3/15/2019			<0.005		0.0033 (J)
3/18/2019		<0.005			
3/19/2019				0.0042 (J)	
9/11/2019	<0.005	<0.005		0.0014 (J)	0.00405 (JD)
9/12/2019			<0.005		
3/9/2020			<0.005	<0.005	0.0039 (J)
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		0.0046 (J)
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	0.0047 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	0.00778 (J)
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		0.0024 (J)
9/21/2016	<0.005	0.0044 (J)
11/4/2016	<0.005	
11/7/2016		0.0035 (J)
1/24/2017	<0.005	0.005 (J)
3/29/2017	<0.005	
3/30/2017		0.0046 (J)
9/29/2017	<0.005	0.004 (J)
3/15/2018	<0.005	0.0028 (J)
9/13/2018	<0.005	
9/14/2018		0.0024 (J)
3/18/2019	<0.005	
3/19/2019		0.0047 (J)
9/11/2019	<0.005	0.0012 (J)
3/9/2020		0.003 (J)
3/11/2020	0.0004 (J)	
9/11/2020	<0.005	
9/14/2020		0.0014 (J)
3/15/2021	<0.005	0.0013 (J)

Time Series

Constituent: pH (SU) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		6.91			
3/15/2016			7.58	6.74	7.15
5/11/2016		6.51	7.24		
5/12/2016				6.41	
5/13/2016					7.29
5/16/2016	7.61 (D)				
7/19/2016		6.12			
7/20/2016				6.59	
7/21/2016			7.53		7.43
7/27/2016	7.51 (D)				
9/15/2016		5.96	7		
9/19/2016			7.19		
9/21/2016					7.05
11/2/2016		5.78			
11/3/2016			7.13	6.45	7.4
1/17/2017			7.51		7.06
1/18/2017		6.13		6.34	
2/21/2017	7.76 (D)				
3/24/2017			7.55	6.42	
3/27/2017	7.7 (D)				7.13
3/28/2017		6.59			
5/24/2017			7.6		
6/6/2017				6.82	7.18
6/7/2017		6.72			
6/8/2017	7.69 (D)				
7/17/2017	7.57 (D)				
7/26/2017	7.63				
7/27/2017	7.63				
8/8/2017	7.73				
8/9/2017	7.73				
9/25/2017				6.63	6.88
9/26/2017		7.05	7.66		
9/29/2017	7.7 (D)				
12/28/2017		6.79 (Y)	7.34 (Y)		
3/14/2018		7.42	7.56	7.08	7.04
3/16/2018	7.49				
9/12/2018		6.86	7.12	6.54	7.02
9/14/2018	7.32				
3/13/2019			7.12		
3/14/2019	7.46			6.58	6.93
3/15/2019		6.78			
9/9/2019		6.49	7.07		
9/10/2019	7.48			5.66	6.72
3/6/2020				6.82	
3/9/2020	7.68	5.9	7.5		6.7
9/10/2020		5.53		6.4	6.67
9/11/2020			6.98		
9/16/2020	7.68				
3/10/2021			7.3		7.3
3/11/2021				6.8	
3/12/2021		6.39			
3/16/2021	7.85				

Time Series

Constituent: pH (SU) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	7.37	6.43	7.89		
3/16/2016				4.49	5.1
5/13/2016		6.8	7.86		
5/16/2016	7.55			4.55	5.15
7/19/2016		6.42	7.83		
7/22/2016	7.51				
7/25/2016				4.63	5.13
9/16/2016		6.19	7.75		
9/19/2016	7.52			4.65	5
11/2/2016		6.36	7.77		
11/3/2016	7.56			4.69	
11/4/2016					5.02
1/17/2017	7.59				
1/18/2017		6.16	7.65		
1/19/2017				4.58	
1/23/2017					4.9
3/27/2017	7.63				
3/28/2017		5.8	7.79	4.45	
3/29/2017					5.08
6/5/2017				4.33	
6/6/2017		5.97	7.89		
6/7/2017	7.55				5.06
7/20/2017				4.38	
9/22/2017		5.77	7.8		
9/26/2017	7.59			4.51	
9/27/2017					4.92
12/28/2017			7.78 (Y)		
12/29/2017					5.08 (Y)
3/14/2018	7.6	5.85			
3/15/2018			7.66	4.34	4.6
9/12/2018		5.65	7.75	4.49	
9/13/2018					5.26
9/14/2018	7.37				
3/13/2019		5.63	7.84		
3/14/2019	7.57			4.41	5.01
9/10/2019	7.53				
9/11/2019		5.53	7.75	4.36	4.93
3/6/2020	7.42				
3/9/2020		5.5	7.73		
3/10/2020				4.44	4.98
9/10/2020	7.48				
9/11/2020		6.25			4.91
9/14/2020			7.76		
9/15/2020				4.46	
12/15/2020					4.92
3/11/2021	7.53	5.55	7.81	4.21	4.68

Time Series

Constituent: pH (SU) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		7.39	7.56	8.08	5.66
3/16/2016	7.22				
5/16/2016	7.34				
5/17/2016		7.32			5.11
5/18/2016			7.58	7.91	
7/25/2016	7.38				
7/26/2016		7.32			
7/27/2016			7.58	7.83	5.17
9/19/2016	7.37				
9/20/2016		7.3	7.68	7.69	5.12
11/3/2016	7.52				
11/4/2016		7.38		7.75	5.03
11/7/2016			7.7		
1/20/2017	7.3	7.29		7.6	
1/23/2017			7.61		5.1
3/28/2017		7.21			5.03
3/29/2017	7.29		7.57	7.63	
6/7/2017	7.43	7.47			
6/8/2017			7.48	7.64	4.77
9/27/2017	7.2		7.55	7.62	
9/29/2017		7.42			5.06
12/28/2017			7.59 (Y)		5.07 (Y)
3/15/2018	6.87	7.22	7.42		5.14
3/16/2018				7.72	
9/13/2018	7.31	7.52	7.49	7.68	5.02
3/14/2019	7.14				
3/15/2019			7.45		5.28
3/18/2019		7.39			
3/19/2019				7.93	
9/11/2019	7.2	7.36		7.55	4.93
9/12/2019			7.48		
3/9/2020			7.19	7.51	5.18
3/10/2020	7.05	7.44			
9/11/2020	7.26				
9/14/2020		7.43	7.54		5
9/15/2020				7.64	
3/11/2021	7.21	7.53	7.34	7.48	4.95

Time Series

Constituent: pH (SU) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	7.82	6.4
5/18/2016	7.85	6.17
7/27/2016	7.87	
7/28/2016		5.85
9/21/2016	7.8	5.61
11/4/2016	7.89	
11/7/2016		5.71
1/24/2017	7.97	5.58
3/29/2017	7.71	
3/30/2017		5.44
6/8/2017	7.86	
6/9/2017		5.11
9/29/2017	7.72	5.51
12/28/2017	7.71 (Y)	
1/10/2018		5.51 (Y)
3/15/2018	7.51	5.12
9/13/2018	8.02	
9/14/2018		5.38
3/18/2019	7.89	
3/19/2019		5.6
9/11/2019	8.22	5.35
3/9/2020		5.6
3/11/2020	8.19	
9/11/2020	8	
9/14/2020		5.32
3/15/2021	8.05	5.31

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.005			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		<0.005	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	<0.005 (D)				
7/19/2016		<0.005			
7/20/2016				<0.005	
7/21/2016			<0.005		<0.005
7/27/2016	<0.005 (D)				
9/15/2016		<0.005	<0.005	<0.005	
9/21/2016					<0.005
11/2/2016		<0.005			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		<0.005		<0.005	
2/21/2017	<0.005				
3/24/2017			<0.005	<0.005	
3/27/2017	<0.005 (D)				<0.005
3/28/2017		<0.005			
5/24/2017			<0.005		
6/6/2017				<0.005	<0.005
6/7/2017		<0.005			
6/8/2017	<0.005 (D)				
7/17/2017	<0.005 (D)				
7/27/2017	<0.005				
8/9/2017	<0.005				
9/25/2017				<0.005	<0.005
9/26/2017		<0.005	<0.005		
9/29/2017	<0.005 (D)				
3/14/2018		<0.005	<0.005	<0.005	<0.005
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	<0.005
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	<0.005			<0.005	<0.005
3/15/2019		<0.005			
9/9/2019		<0.005	<0.005		
9/10/2019				<0.005 (D)	<0.005
3/6/2020				<0.005	
3/9/2020	<0.005	<0.005	<0.005		<0.005
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		<0.005			
3/16/2021	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	0.00236 (J)	<0.005		
3/16/2016				0.002 (J)	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			0.0021 (J)	<0.005
7/19/2016		<0.005	<0.005		
7/22/2016	<0.005				
7/25/2016				<0.005	<0.005
9/16/2016		<0.005	<0.005		
9/19/2016	<0.005			<0.005	<0.005
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			<0.005	
11/4/2016					<0.005
1/17/2017	<0.005				
1/18/2017		<0.005	<0.005		
1/19/2017				<0.005	
1/23/2017					<0.005
3/27/2017	<0.005				
3/28/2017		<0.005	<0.005	0.0033 (J)	
3/29/2017					<0.005
6/5/2017				0.0068 (J)	
6/6/2017		<0.005	<0.005		
6/7/2017	<0.005				<0.005
9/22/2017		<0.005	<0.005		
9/26/2017	<0.005			0.0037 (J)	
3/14/2018	<0.005	<0.005			
3/15/2018			<0.005	0.0031 (J)	<0.005
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					<0.005
9/14/2018	<0.005				
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005			0.0042 (J)	<0.005
9/10/2019	<0.005				
9/11/2019		<0.005	<0.005	0.0021 (J)	<0.005
3/6/2020	<0.005				
3/9/2020		<0.005	<0.005		
3/10/2020				0.0063 (J)	<0.005
9/10/2020	<0.005				
9/11/2020		<0.005			<0.005
9/14/2020			<0.005		
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	<0.005	<0.005
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			<0.005
5/18/2016			<0.005	<0.005	
7/25/2016	<0.005				
7/26/2016		0.0009 (J)			
7/27/2016			<0.005	<0.005	0.0009 (J)
9/19/2016	<0.005				
9/20/2016		<0.005	<0.005	<0.005	<0.005
11/3/2016	<0.005				
11/4/2016		<0.005		<0.005	<0.005
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		<0.005			<0.005
3/29/2017	<0.005		<0.005	<0.005	
6/7/2017	<0.005	<0.005			
6/8/2017			<0.005	<0.005	<0.005
9/29/2017		<0.005			<0.005
3/15/2018	<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
3/14/2019	<0.005				
3/15/2019			<0.005		<0.005
3/18/2019		<0.005			
3/19/2019				<0.005	
9/11/2019	<0.005	<0.005		<0.005	<0.005 (D)
9/12/2019			<0.005		
3/9/2020			<0.005	<0.005	<0.005
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		<0.005
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	<0.005
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		<0.005
9/21/2016	<0.005	<0.005
11/4/2016	<0.005	
11/7/2016		<0.005
1/24/2017	<0.005	<0.005
3/29/2017	<0.005	
3/30/2017		<0.005
6/8/2017	<0.005	
6/9/2017		<0.005
9/29/2017	<0.005	<0.005
3/15/2018	<0.005	<0.005
9/13/2018	<0.005	
9/14/2018		<0.005
3/18/2019	<0.005	
3/19/2019		<0.005
9/11/2019	<0.005	<0.005
3/9/2020		<0.005
3/11/2020	<0.005	
9/11/2020	<0.005	
9/14/2020		<0.005
3/15/2021	<0.005	<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/29/2021 10:34 AM
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)
3/14/2016		<0.005			
3/15/2016			<0.005	<0.005	<0.005
5/11/2016		<0.005	<0.005		
5/12/2016				<0.005	
5/13/2016					<0.005
5/16/2016	<0.005 (D)				
7/19/2016		<0.005			
7/20/2016				<0.005	
7/21/2016			<0.005		<0.005
7/27/2016	0.0012 (JD)				
9/15/2016		<0.005	<0.005	<0.005	
9/21/2016					<0.005
11/2/2016		<0.005			
11/3/2016			<0.005	<0.005	<0.005
1/17/2017			<0.005		<0.005
1/18/2017		<0.005		<0.005	
2/21/2017	<0.005				
3/24/2017			<0.005	<0.005	
3/27/2017	<0.005 (D)				<0.005
3/28/2017		<0.005			
9/25/2017				<0.005	<0.005
9/26/2017		<0.005	<0.005		
9/29/2017	<0.005 (D)				
3/14/2018		<0.005	<0.005	<0.005	<0.005
3/16/2018	<0.005				
9/12/2018		<0.005	<0.005	<0.005	<0.005
9/14/2018	<0.005				
3/13/2019			<0.005		
3/14/2019	<0.005			<0.005	<0.005
3/15/2019		<0.005			
9/9/2019		<0.005	<0.005		
9/10/2019				<0.005 (D)	<0.005
3/6/2020				<0.005	
3/9/2020	<0.005	<0.005	<0.005		<0.005
9/10/2020		<0.005		<0.005	<0.005
9/11/2020			<0.005		
9/16/2020	<0.005				
3/10/2021			<0.005		<0.005
3/11/2021				<0.005	
3/12/2021		<0.005			
3/16/2021	<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.005	<0.005	<0.005		
3/16/2016				<0.005	<0.005
5/13/2016		<0.005	<0.005		
5/16/2016	<0.005			<0.005	<0.005
7/19/2016		<0.005	<0.005		
7/22/2016	<0.005				
7/25/2016				<0.005	<0.005
9/16/2016		<0.005	<0.005		
9/19/2016	<0.005			<0.005	<0.005
11/2/2016		<0.005	<0.005		
11/3/2016	<0.005			<0.005	
11/4/2016					<0.005
1/17/2017	<0.005				
1/18/2017		<0.005	<0.005		
1/19/2017				<0.005	
1/23/2017					<0.005
3/27/2017	<0.005				
3/28/2017		<0.005	<0.005	<0.005	
3/29/2017					<0.005
9/22/2017		<0.005	<0.005		
9/26/2017	<0.005			<0.005	
9/27/2017					<0.005
3/14/2018	<0.005	<0.005			
3/15/2018			<0.005	<0.005	<0.005
9/12/2018		<0.005	<0.005	<0.005	
9/13/2018					<0.005
9/14/2018	<0.005				
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005			<0.005	<0.005
9/10/2019	<0.005				
9/11/2019		<0.005	<0.005	<0.005	<0.005
3/6/2020	<0.005				
3/9/2020		<0.005	<0.005		
3/10/2020				<0.005	<0.005
9/10/2020	<0.005				
9/11/2020		<0.005			<0.005
9/14/2020			<0.005		
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.005	<0.005	<0.005	<0.005
3/16/2016	<0.005				
5/16/2016	<0.005				
5/17/2016		<0.005			<0.005
5/18/2016			<0.005	<0.005	
7/25/2016	<0.005				
7/26/2016		<0.005			
7/27/2016			<0.005	<0.005	<0.005
9/19/2016	<0.005				
9/20/2016		<0.005	<0.005	<0.005	<0.005
11/3/2016	<0.005				
11/4/2016		<0.005		<0.005	<0.005
11/7/2016			<0.005		
1/20/2017	<0.005	<0.005		<0.005	
1/23/2017			<0.005		<0.005
3/28/2017		<0.005			<0.005
3/29/2017	<0.005		<0.005	<0.005	
9/27/2017	<0.005		<0.005	<0.005	
9/29/2017		<0.005			<0.005
3/15/2018	<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
3/14/2019	<0.005				
3/15/2019			<0.005		<0.005
3/18/2019		<0.005			
3/19/2019				<0.005	
9/11/2019	<0.005	<0.005		<0.005	<0.005 (D)
9/12/2019			<0.005		
3/9/2020			<0.005	<0.005	<0.005
3/10/2020	<0.005	<0.005			
9/11/2020	<0.005				
9/14/2020		<0.005	<0.005		<0.005
9/15/2020				<0.005	
3/11/2021	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Silver (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.005	<0.005
5/18/2016	<0.005	<0.005
7/27/2016	<0.005	
7/28/2016		<0.005
9/21/2016	<0.005	<0.005
11/4/2016	<0.005	
11/7/2016		<0.005
1/24/2017	<0.005	<0.005
3/29/2017	<0.005	
3/30/2017		<0.005
9/29/2017	<0.005	<0.005
3/15/2018	<0.005	<0.005
9/13/2018	<0.005	
9/14/2018		<0.005
3/18/2019	<0.005	
3/19/2019		<0.005
9/11/2019	<0.005	<0.005
3/9/2020		<0.005
3/11/2020	<0.005	
9/11/2020	<0.005	
9/14/2020		<0.005
3/15/2021	<0.005	<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		4.2598			
3/15/2016			1.2104	4.9347	6.4987
5/11/2016		6.05	1.28		
5/12/2016				2.3	
5/13/2016					3.68
5/16/2016	2.4 (D)				
7/19/2016		9.5			
7/20/2016				2	
7/21/2016			0.91 (J)		4.5
7/27/2016	3.6 (D)				
9/15/2016		6.7		1.1	
9/19/2016			1.3		
9/21/2016					2.8
11/2/2016		5.4			
11/3/2016			1.5	1.6	6.7
1/17/2017			<1 (*)		<1 (*)
1/18/2017		5.5		1.5	
2/21/2017	26 (D)				
3/24/2017			0.86 (J)	1.6	
3/27/2017	10 (D)				0.85 (J)
3/28/2017		2.9			
5/24/2017			1.2		
6/6/2017				4.1	6.1
6/7/2017		2.3			
6/8/2017	6.7 (D)				
7/17/2017	6.4 (D)				
7/27/2017	18 (D)				
8/9/2017	18 (D)				
9/25/2017				1.9	3.5
9/26/2017		3.2	4.2		
9/29/2017	21 (D)				
12/28/2017			7.4 (Y)		
3/14/2018		3.8	3.8	11.5	10.9 (J)
3/16/2018	15.5				
9/12/2018		3.7	1.7	1.8	3.7
9/14/2018	11.6				
3/13/2019			2.1		
3/14/2019	9.3			6.2	8.9
3/15/2019		3			
9/9/2019		2.4	1.6		
9/10/2019	14			1.2	8.4
3/6/2020				10	
3/9/2020	5.8	0.84 (J)	1.2		8.5
9/10/2020		0.95 (J)		1.7	5.9
9/11/2020			1.3		
9/16/2020	8.6				
3/10/2021			1.5		8.4
3/11/2021				6.1	
3/12/2021		2			
3/16/2021	3.5				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	1.4538	1.1313	3.8282		
3/16/2016				14.7828	0.00424 (J)
5/13/2016		1.96	3.56		
5/16/2016	1.18			10.2	0.5151 (J)
7/19/2016		1.3	5.6		
7/22/2016	1.8				
7/25/2016				8.4	<1 (*)
9/16/2016		1.1	6.7		
9/19/2016	1.4			2.5	0.72 (J)
11/2/2016		1.2	8.1		
11/3/2016	1.6			3.3	
11/4/2016					0.75 (J)
1/17/2017	<1 (*)				
1/18/2017		0.84 (J)	8.9		
1/19/2017				3.2	
1/23/2017					0.99 (J)
3/27/2017	2				
3/28/2017		0.7 (J)	8.2	16 (J)	
3/29/2017					1.5
6/5/2017				38	
6/6/2017		0.47 (J)	7		
6/7/2017	1.9				0.63 (J)
7/20/2017				48	
9/22/2017		0.59 (J)	8.3		
9/26/2017	2			18	
9/27/2017					1.2
3/14/2018	2.1	0.39 (J)			
3/15/2018			5.1	32.4	0.75 (J)
9/12/2018		0.3 (J)	5.6	16	
9/13/2018					1.3
9/14/2018	1.6				
3/13/2019		0.43 (X)	4.4		
3/14/2019	2.2			79.7 (O)	0.72 (X)
9/10/2019	1.2				
9/11/2019		<1	5	19.8	<1
3/6/2020	1.7				
3/9/2020		<1	3.9		
3/10/2020				48.5	0.61 (J)
9/10/2020	0.95 (J)				
9/11/2020		<1			<1
9/14/2020			4.9		
9/15/2020				23.1	
3/11/2021	1.6	<1	4.3	35.5	<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		5.7554	3.4409	9.1279	2.6569
3/16/2016	2.8721				
5/16/2016	2.27				
5/17/2016		8.67			2.39
5/18/2016			4.09	10.1	
7/25/2016	2.6				
7/26/2016		6.6			
7/27/2016			4	7	<1 (*)
9/19/2016	2.8				
9/20/2016		5.8	4.3	6.7	2.4
11/3/2016	2.6				
11/4/2016		6.1		7.9	2.1
11/7/2016			4.1		
1/20/2017	2.8	7		6.6	
1/23/2017			5.1		2.1
3/28/2017		7.7			2.1
3/29/2017	3.1		5.2	6.2	
6/7/2017	3.2	6.4			
6/8/2017			3.8	7.5	1.3
9/27/2017	2.5		4.3	7.5	
9/29/2017		8.4			3.7
12/28/2017					1.7 (Y)
3/15/2018	2.9	6.4	3.7		0.76 (J)
3/16/2018				13.4	
9/13/2018	2.3	7.2	4.8	11.6	1.6
3/14/2019	4.3				
3/15/2019			4.2		1.7
3/18/2019		4.4			
3/19/2019				14.8	
9/11/2019	2.6	7		10.7	0.86 (X)
9/12/2019			4.7		
3/9/2020			4.3	10.4	1.6
3/10/2020	5.2	5.5			
9/11/2020	2.8				
9/14/2020		6.9	4.3		5.4
9/15/2020				9.6	
3/11/2021	4.2	6.7	4.7	10.4	15.4

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	3.4197	5.3658
5/18/2016	3.06	4.44
7/27/2016	2.6	
7/28/2016		9.9
9/21/2016	3.1	2.2
11/4/2016	3.1	
11/7/2016		2.2
1/24/2017	3	1.5
3/29/2017	2.5	
3/30/2017		1.7
6/8/2017	3.3	
6/9/2017		1.7
9/29/2017	4.2	2.2
12/28/2017	3.8 (Y)	
3/15/2018	3.1	2.4
9/13/2018	3.6	
9/14/2018		2.4
3/18/2019	5.8	
3/19/2019		2.2
9/11/2019	5.7	1.5
3/9/2020		1.5
3/11/2020	3.3	
9/11/2020	2.1	
9/14/2020		1.2
3/15/2021	2.6	1.5

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.001			
3/15/2016			<0.001	<0.001	<0.001
5/11/2016		<0.001	<0.001		
5/12/2016				<0.001	
5/13/2016					<0.001
5/16/2016	<0.001 (D)				
7/19/2016		<0.001 (*)			
7/20/2016				<0.001	
7/21/2016			<0.001		<0.001
7/27/2016	0.0002 (JD)				
9/15/2016		<0.001	<0.001	<0.001	
9/21/2016					<0.001
11/2/2016		<0.001			
11/3/2016			<0.001	<0.001	<0.001
1/17/2017			<0.001		<0.001
1/18/2017		<0.001		<0.001	
2/21/2017	<0.001				
3/24/2017			<0.001	<0.001	
3/27/2017	<0.001 (D)				<0.001
3/28/2017		5E-05 (J)			
5/24/2017			<0.001		
6/6/2017				<0.001	0.0002 (J)
6/7/2017		<0.001			
6/8/2017	<0.001 (D)				
7/17/2017	<0.001 (D)				
7/27/2017	<0.001				
8/9/2017	<0.001				
9/25/2017				<0.001	<0.001
9/26/2017		7E-05 (J)	<0.001		
9/29/2017	<0.001 (D)				
3/14/2018		<0.001	<0.001	<0.001	<0.001
3/16/2018	<0.001				
9/12/2018		<0.001	<0.001	<0.001	<0.001
9/14/2018	<0.001				
3/13/2019			<0.001		
3/14/2019	<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
3/6/2020				<0.001	
3/9/2020	<0.001	<0.001	7.8E-05 (J)		6.1E-05 (J)
9/10/2020		<0.001		<0.001	<0.001
9/11/2020			<0.001		
9/16/2020	<0.001				
3/10/2021			<0.001		<0.001
3/11/2021				<0.001	
3/12/2021		<0.001			
3/16/2021	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.001	<0.001	<0.001		
3/16/2016				<0.001	<0.001
5/13/2016		<0.001	<0.001		
5/16/2016	<0.001			<0.001	<0.001
7/19/2016		<0.001 (*)	<0.001		
7/22/2016	0.0002 (J)				
7/25/2016				<0.001	<0.001
9/16/2016		<0.001	<0.001		
9/19/2016	<0.001			<0.001	<0.001
11/2/2016		<0.001	<0.001		
11/3/2016	<0.001			<0.001	
11/4/2016					<0.001
1/17/2017	<0.001				
1/18/2017		<0.001	<0.001		
1/19/2017				<0.001	
1/23/2017					<0.001
3/27/2017	<0.001				
3/28/2017		5E-05 (J)	<0.001	5E-05 (J)	
3/29/2017					<0.001
6/5/2017				5E-05 (J)	
6/6/2017		<0.001	<0.001		
6/7/2017	<0.001				<0.001
9/22/2017		<0.001	<0.001		
9/26/2017	<0.001			<0.001	
9/27/2017					<0.001
3/14/2018	<0.001	<0.001			
3/15/2018			<0.001	<0.001	<0.001
9/12/2018		<0.001	<0.001	<0.001	
9/13/2018					<0.001
9/14/2018	<0.001				
3/13/2019		<0.001	<0.001		
3/14/2019	<0.001			<0.001	<0.001
9/10/2019	<0.001				
9/11/2019		6.2E-05 (J)	<0.001	<0.001	<0.001
3/6/2020	8.6E-05 (J)				
3/9/2020		<0.001	<0.001		
3/10/2020				<0.001	<0.001
9/10/2020	<0.001				
9/11/2020		<0.001			<0.001
9/14/2020			<0.001		
9/15/2020				<0.001	
3/11/2021	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.001	<0.001	0.00116	<0.001
3/16/2016	<0.001				
5/16/2016	<0.001				
5/17/2016		<0.001			<0.001
5/18/2016			<0.001	0.000768 (J)	
7/25/2016	<0.001				
7/26/2016		7E-05 (J)			
7/27/2016			9E-05 (J)	0.0004 (J)	9E-05 (J)
9/19/2016	<0.001				
9/20/2016		<0.001	<0.001	0.0004 (J)	<0.001
11/3/2016	<0.001				
11/4/2016		<0.001		0.0003 (J)	<0.001
11/7/2016			<0.001		
1/20/2017	<0.001	<0.001		0.0003 (J)	
1/23/2017			<0.001		<0.001
3/28/2017		7E-05 (J)			6E-05 (J)
3/29/2017	<0.001		7E-05 (J)	0.0003 (J)	
6/7/2017	<0.001	6E-05 (J)			
6/8/2017			<0.001	0.0003 (J)	8E-05 (J)
9/27/2017	<0.001		6E-05 (J)	0.0003 (J)	
9/29/2017		6E-05 (J)			9E-05 (J)
3/15/2018	<0.001	<0.001	<0.001		<0.001
3/16/2018				0.00036 (J)	
9/13/2018	<0.001	<0.001	<0.001	0.00021 (J)	<0.001
3/14/2019	<0.001				
3/15/2019			<0.001		<0.001
3/18/2019		<0.001			
3/19/2019				0.00027 (J)	
9/11/2019	<0.001	<0.001		0.00023 (J)	0.000115 (JD)
9/12/2019			<0.001		
3/9/2020			<0.001	0.00021 (J)	9E-05 (J)
3/10/2020	<0.001	<0.001			
9/11/2020	<0.001				
9/14/2020		<0.001	<0.001		<0.001
9/15/2020				0.00016 (J)	
3/11/2021	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/27/2016	0.0001 (J)	
7/28/2016		<0.001
9/21/2016	<0.001	<0.001
11/4/2016	<0.001	
11/7/2016		<0.001
1/24/2017	<0.001	<0.001
3/29/2017	<0.001	
3/30/2017		5E-05 (J)
6/8/2017	<0.001	
6/9/2017		<0.001
9/29/2017	<0.001	<0.001
3/15/2018	<0.001	<0.001
9/13/2018	<0.001	
9/14/2018		<0.001
3/18/2019	<0.001	
3/19/2019		<0.001
9/11/2019	<0.001	<0.001
3/9/2020		<0.001
3/11/2020	<0.001	
9/11/2020	<0.001	
9/14/2020		<0.001
3/15/2021	<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 10:34 AM

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)
3/14/2016		106			
3/15/2016			107	110	78
5/11/2016		58	80		
5/12/2016				49	
5/13/2016					178
5/16/2016	114 (D)				
7/19/2016		46			
7/20/2016				72	
7/21/2016			76		168
7/27/2016	107 (D)				
9/15/2016		41		18 (J)	
9/19/2016			108		
9/21/2016					123
11/2/2016		37			
11/3/2016			90	70	157
1/17/2017			128		170
1/18/2017		29		63	
2/21/2017	229 (D)				
3/24/2017			91	63	
3/27/2017	239 (D)				158
3/28/2017		40			
5/24/2017			152		
6/6/2017				128	212
6/8/2017	179 (D)				
7/17/2017	180 (D)				
7/27/2017	190 (D)				
8/9/2017	153 (D)				
9/25/2017				109	145
9/26/2017		107	103		
9/29/2017	173 (D)				
3/14/2018		126	123	192	210
3/16/2018	150				
9/12/2018		134	105	82	159
9/14/2018	165				
3/13/2019			130		
3/14/2019	154			119	157
3/15/2019		107			
9/9/2019		93	108		
9/10/2019	181			36	113
3/6/2020				137	
3/9/2020	173	58	131		249
9/10/2020		16		35	111
9/11/2020			102		
9/16/2020	156				
3/10/2021			60		148
3/11/2021				101	
3/12/2021		55			
3/16/2021	142				

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	139	69	144		
3/16/2016				<10	<10
5/13/2016		88	142		
5/16/2016	112			35	<10
7/19/2016		56	135		
7/22/2016	136				
7/25/2016				24 (J)	16 (J)
9/16/2016		31	144		
9/19/2016	121			19 (J)	12 (J)
11/2/2016		48	152		
11/3/2016	132			34	
11/4/2016					13 (J)
1/17/2017	150				
1/18/2017		44	125		
1/19/2017				13 (J)	
1/23/2017					15 (J)
3/27/2017	148				
3/28/2017		<10	109	<10	
3/29/2017					<10
6/5/2017				206	
6/6/2017		36	154		
6/7/2017	181				26
7/20/2017				72	
9/22/2017		41	157		
9/26/2017	113			35	
9/27/2017					<10
3/14/2018	134	<10			
3/15/2018			117	41	<10
9/12/2018		<10	151	<10	
9/13/2018					<10
9/14/2018	139				
3/13/2019		31	152		
3/14/2019	157			110	39 (X)
9/10/2019	105				
9/11/2019		21	151	58	<10
3/6/2020	143				
3/9/2020		51	174		
3/10/2020				127	60
9/10/2020	120				
9/11/2020		31			11
9/14/2020			146		
9/15/2020				56	
3/11/2021	109	14	98	43	12

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		253	152	149	63
3/16/2016	89				
5/16/2016	169				
5/17/2016		251			<10
5/18/2016			123	162	
7/25/2016	159				
7/26/2016		249			
7/27/2016			113	132	11 (J)
9/19/2016	152				
9/20/2016		195	126	155	14 (J)
11/3/2016	150				
11/4/2016		209		169	27
11/7/2016			167		
1/20/2017	152	211		135	
1/23/2017			125		15 (J)
3/28/2017		199			<10
3/29/2017	143		116	147	
6/7/2017	192	251			
6/8/2017			131	159	29
9/27/2017	159		117	167	
9/29/2017		255			21 (J)
3/15/2018	146	231	102		<10
3/16/2018				141	
9/13/2018	185	263	144	175	<10
3/14/2019	195				
3/15/2019			125		41
3/18/2019		251			
3/19/2019				154	
9/11/2019	172	234		164	20
9/12/2019			121		
3/9/2020			147	44	100
3/10/2020	245	273			
9/11/2020	146				
9/14/2020		232	129		47
9/15/2020				108	
3/11/2021	167	209	106	143	40

Time Series

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 10:34 AM

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	103	31
5/18/2016	129	43
7/27/2016	108	
7/28/2016		43
9/21/2016	102	<10
11/4/2016	130	
11/7/2016		50
1/24/2017	152	63
3/29/2017	95	
3/30/2017		<10
6/8/2017	176	
6/9/2017		20 (J)
9/29/2017	118	22 (J)
3/15/2018	88	<10
9/13/2018	137	
9/14/2018		29
3/18/2019	170	
3/19/2019		35
9/11/2019	138	27
3/9/2020		51
3/11/2020	125	
9/11/2020	127	
9/14/2020		25
3/15/2021	107	30

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 10:34 AM
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)
3/14/2016		<0.01			
3/15/2016			<0.01	<0.01	<0.01
5/11/2016		<0.01	<0.01		
5/12/2016				<0.01	
5/13/2016					<0.01
5/16/2016	<0.01 (D)				
7/19/2016		<0.01			
7/20/2016				<0.01	
7/21/2016			<0.01		<0.01
7/27/2016	0.002 (JD)				
9/15/2016		<0.01	<0.01	<0.01	
9/21/2016					<0.01
11/2/2016		<0.01			
11/3/2016			<0.01	<0.01	<0.01
1/17/2017			<0.01		<0.01
1/18/2017		<0.01		<0.01	
2/21/2017	<0.01				
3/24/2017			<0.01	<0.01	
3/27/2017	<0.01 (D)				<0.01
3/28/2017		<0.01			
9/25/2017				<0.01	<0.01
9/26/2017		<0.01	<0.01		
9/29/2017	<0.01 (D)				
3/14/2018		<0.01	<0.01	<0.01	<0.01
3/16/2018	<0.01				
9/12/2018		<0.01	<0.01	<0.01	<0.01
9/14/2018	<0.01				
3/13/2019			<0.01		
3/14/2019	<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
3/6/2020				<0.01	
3/9/2020	<0.01	<0.01	<0.01		<0.01
9/10/2020		<0.01		<0.01	<0.01
9/11/2020			<0.01		
9/16/2020	<0.01				
3/10/2021			<0.01		<0.01
3/11/2021				<0.01	
3/12/2021		<0.01			
3/16/2021	<0.01				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	<0.01	0.00204 (J)	0.00202 (J)		
3/16/2016				<0.01	<0.01
5/13/2016		<0.01	<0.01		
5/16/2016	<0.01			<0.01	<0.01
7/19/2016		<0.01	<0.01		
7/22/2016	<0.01				
7/25/2016				<0.01	0.0022 (J)
9/16/2016		<0.01	<0.01		
9/19/2016	<0.01			<0.01	<0.01
11/2/2016		<0.01	<0.01		
11/3/2016	<0.01			<0.01	
11/4/2016					<0.01
1/17/2017	<0.01				
1/18/2017		<0.01	<0.01		
1/19/2017				<0.01	
1/23/2017					<0.01
3/27/2017	<0.01				
3/28/2017		<0.01	<0.01	<0.01	
3/29/2017					<0.01
9/22/2017		<0.01	<0.01		
9/26/2017	<0.01			<0.01	
9/27/2017					<0.01
3/14/2018	<0.01	<0.01			
3/15/2018			<0.01	<0.01	<0.01
9/12/2018		<0.01	<0.01	<0.01	
9/13/2018					<0.01
9/14/2018	<0.01				
3/13/2019		<0.01	<0.01		
3/14/2019	<0.01			<0.01	<0.01
9/10/2019	<0.01				
9/11/2019		<0.01	<0.01	<0.01	<0.01
3/6/2020	<0.01				
3/9/2020		<0.01	0.00074 (J)		
3/10/2020				<0.01	<0.01
9/10/2020	<0.01				
9/11/2020		<0.01			<0.01
9/14/2020			<0.01		
9/15/2020				<0.01	
3/11/2021	<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		<0.01	<0.01	<0.01	<0.01
3/16/2016	<0.01				
5/16/2016	<0.01				
5/17/2016		<0.01			<0.01
5/18/2016			<0.01	<0.01	
7/25/2016	<0.01				
7/26/2016		<0.01			
7/27/2016			<0.01	<0.01	<0.01
9/19/2016	<0.01				
9/20/2016		<0.01	<0.01	<0.01	<0.01
11/3/2016	<0.01				
11/4/2016		<0.01		<0.01	<0.01
11/7/2016			<0.01		
1/20/2017	<0.01	<0.01		<0.01	
1/23/2017			<0.01		<0.01
3/28/2017		<0.01			<0.01
3/29/2017	<0.01		<0.01	<0.01	
9/27/2017	<0.01		<0.01	<0.01	
9/29/2017		<0.01			<0.01
3/15/2018	<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
3/14/2019	<0.01				
3/15/2019			<0.01		<0.01
3/18/2019		<0.01			
3/19/2019				<0.01	
9/11/2019	<0.01	<0.01		<0.01	<0.01 (D)
9/12/2019			<0.01		
3/9/2020			<0.01	0.00075 (J)	<0.01
3/10/2020	<0.01	<0.01			
9/11/2020	<0.01				
9/14/2020		<0.01	<0.01		<0.01
9/15/2020				<0.01	
3/11/2021	<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.01	<0.01
5/18/2016	<0.01	<0.01
7/27/2016	<0.01	
7/28/2016		<0.01
9/21/2016	<0.01	<0.01
11/4/2016	<0.01	
11/7/2016		<0.01
1/24/2017	<0.01	<0.01
3/29/2017	<0.01	
3/30/2017		<0.01
9/29/2017	<0.01	<0.01
3/15/2018	<0.01	<0.01
9/13/2018	<0.01	
9/14/2018		<0.01
3/18/2019	<0.01	
3/19/2019		<0.01
9/11/2019	<0.01	<0.01
3/9/2020		<0.01
3/11/2020	<0.01	
9/11/2020	<0.01	
9/14/2020		<0.01
3/15/2021	<0.01	<0.01

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 10:34 AM
 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)
3/14/2016		<0.02			
3/15/2016			<0.02	<0.02	0.00286 (J)
5/11/2016		0.00467 (J)	<0.02		
5/12/2016				<0.02	
5/13/2016					<0.02
5/16/2016	<0.02 (D)				
7/19/2016		<0.02 (*)			
7/20/2016				<0.02	
7/21/2016			<0.02 (*)		<0.02 (*)
7/27/2016	<0.02 (*)				
9/15/2016		0.0044 (J)	<0.02	0.0027 (J)	
9/21/2016					<0.02
11/2/2016		0.0043 (J)			
11/3/2016			<0.02	<0.02	<0.02
1/17/2017			<0.02		<0.02
1/18/2017		<0.02 (*)		<0.02 (*)	
2/21/2017	0.0049 (J)				
3/24/2017			<0.02 (*)	<0.02 (*)	
3/27/2017	<0.02 (*)				<0.02 (*)
3/28/2017		<0.02 (*)			
9/25/2017				<0.02	0.0023 (J)
9/26/2017		0.0029 (J)	0.0019 (J)		
9/29/2017	0.0012 (JD)				
3/14/2018		<0.02	<0.02	<0.02	<0.02
3/16/2018	0.0042 (J)				
9/12/2018		<0.02	<0.02	<0.02	<0.02
9/14/2018	<0.02				
3/13/2019			<0.02		
3/14/2019	0.0035 (J)			<0.02	0.0021 (J)
3/15/2019		0.0023 (J)			
9/9/2019		0.0047 (J)	0.0058 (J)		
9/10/2019				0.00745 (JD)	0.0075 (J)
3/6/2020				0.0027 (J)	
3/9/2020	0.009 (J)	0.0035 (J)	0.002 (J)		0.0024 (J)
9/10/2020		<0.02		<0.02	<0.02
9/11/2020			<0.02		
9/16/2020	<0.02				
3/10/2021			<0.02		<0.02
3/11/2021				<0.02	
3/12/2021		0.0065 (J)			
3/16/2021	<0.02				

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWC-44	GWC-45
3/11/2016	0.00862 (J)	0.0093 (J)	0.00722 (J)		
3/16/2016				0.00622 (J)	0.00599 (J)
5/13/2016		0.00336 (J)	0.00666 (J)		
5/16/2016	0.00744 (J)			0.00345 (J)	<0.02
7/19/2016		<0.02 (*)	<0.02 (*)		
7/22/2016	<0.02 (*)				
7/25/2016				<0.02 (*)	<0.02 (*)
9/16/2016		0.0023 (J)	<0.02		
9/19/2016	0.0162			0.004 (J)	0.0061 (J)
11/2/2016		0.0047 (J)	0.0057 (J)		
11/3/2016	0.011			0.0047 (J)	
11/4/2016					0.0032 (J)
1/17/2017	0.0104				
1/18/2017		<0.02	0.0022 (J)		
1/19/2017				0.0035 (J)	
1/23/2017					0.0031 (J)
3/27/2017	<0.02 (*)				
3/28/2017		<0.02 (*)	<0.02	<0.02 (*)	
3/29/2017					<0.02 (*)
9/22/2017		0.0013 (J)	0.0014 (J)		
9/26/2017	0.0094 (J)			0.0039 (J)	
9/27/2017					0.0048 (J)
3/14/2018	<0.02	<0.02			
3/15/2018			<0.02	<0.02	<0.02
9/12/2018		<0.02	<0.02	<0.02	
9/13/2018					<0.02
9/14/2018	<0.02				
3/13/2019		0.0022 (J)	0.0023 (J)		
3/14/2019	0.01			0.0039 (J)	<0.02
9/10/2019	0.014				
9/11/2019		0.0065 (J)	0.0053 (J)	0.0068 (J)	0.0065 (J)
3/6/2020	0.012				
3/9/2020		0.002 (J)	0.0022 (J)		
3/10/2020				0.0049 (J)	0.0031 (J)
9/10/2020	0.0073 (J)				
9/11/2020		<0.02			<0.02
9/14/2020			<0.02		
9/15/2020				0.0062 (J)	
3/11/2021	0.0089 (J)	<0.02	<0.02	0.004 (J)	<0.02

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 10:34 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-46R	GWC-47	GWC-47R	GWC-48
3/10/2016		0.00373 (J)	0.027	0.0154	0.00432 (J)
3/16/2016	0.000113 (J)				
5/16/2016	0.00452 (J)				
5/17/2016		0.00268 (J)			0.00672 (J)
5/18/2016			0.0277	0.0136	
7/25/2016	<0.02 (*)				
7/26/2016		<0.02 (*)			
7/27/2016			0.0221	0.0153	<0.02 (*)
9/19/2016	0.0034 (J)				
9/20/2016		0.0058 (J)	0.03	0.0173	0.0081 (J)
11/3/2016	0.0039 (J)				
11/4/2016		0.0029 (J)		0.0149	0.0071 (J)
11/7/2016			0.0202		
1/20/2017	0.0023 (J)	<0.02		0.0134	
1/23/2017			0.0156		<0.02
3/28/2017		<0.02 (*)			<0.02 (*)
3/29/2017	<0.02 (*)		<0.02 (*)	<0.02 (*)	
9/27/2017	0.0036 (J)		0.0196	0.0111	
9/29/2017		0.0016 (J)			0.0055 (J)
12/28/2017			0.0315 (Y)		
3/15/2018	<0.02	<0.02	<0.02		<0.02
3/16/2018				0.012	
9/13/2018	<0.02	<0.02	0.031	<0.02	<0.02
3/14/2019	0.0022 (J)				
3/15/2019			0.051		0.0058 (J)
3/18/2019		<0.02			
3/19/2019				0.016	
9/11/2019	0.0058 (J)	0.0055 (J)		0.028	0.011 (D)
9/12/2019			0.035		
3/9/2020			0.044	0.032	0.0079 (J)
3/10/2020	0.0035 (J)	0.0029 (J)			
9/11/2020	<0.02				
9/14/2020		<0.02	0.032		0.0076 (J)
9/15/2020				0.028	
3/11/2021	<0.02	<0.02	0.047	0.028	0.0088 (J)

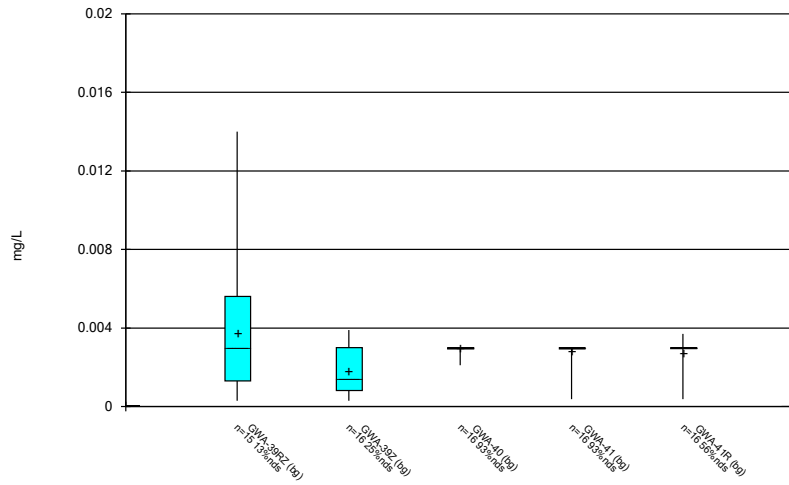
Time Series

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 10:34 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49Z
3/17/2016	<0.02	<0.02
5/18/2016	<0.02	0.00208 (J)
7/27/2016	<0.02 (*)	
7/28/2016		<0.02 (*)
9/21/2016	<0.02	0.0079 (J)
11/4/2016	<0.02	
11/7/2016		<0.02 (*)
1/24/2017	<0.02	0.0053 (J)
3/29/2017	<0.02 (*)	
3/30/2017		<0.02 (*)
9/29/2017	<0.02	0.004 (J)
3/15/2018	<0.02	<0.02
9/13/2018	<0.02	
9/14/2018		<0.02
3/18/2019	<0.02	
3/19/2019		0.0034 (J)
9/11/2019	0.005 (J)	0.0085 (J)
3/9/2020		0.0047 (J)
3/11/2020	0.0036 (J)	
9/11/2020	<0.02	
9/14/2020		0.0042 (J)
3/15/2021	<0.02	<0.02

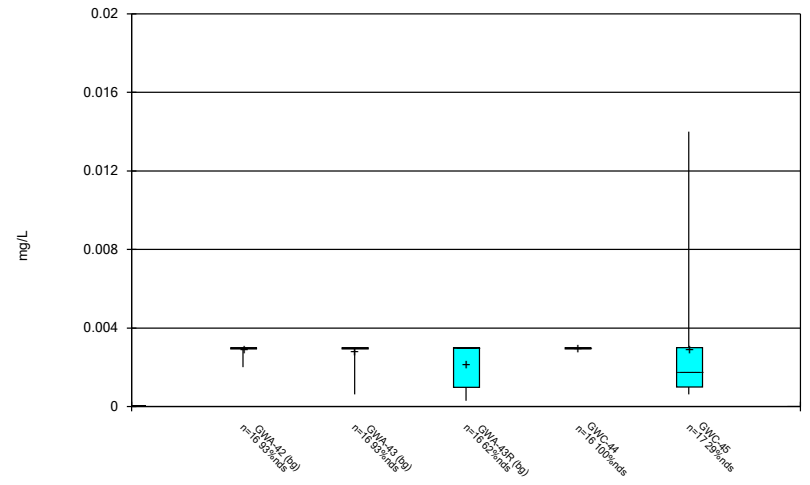
FIGURE B.

Box & Whiskers Plot



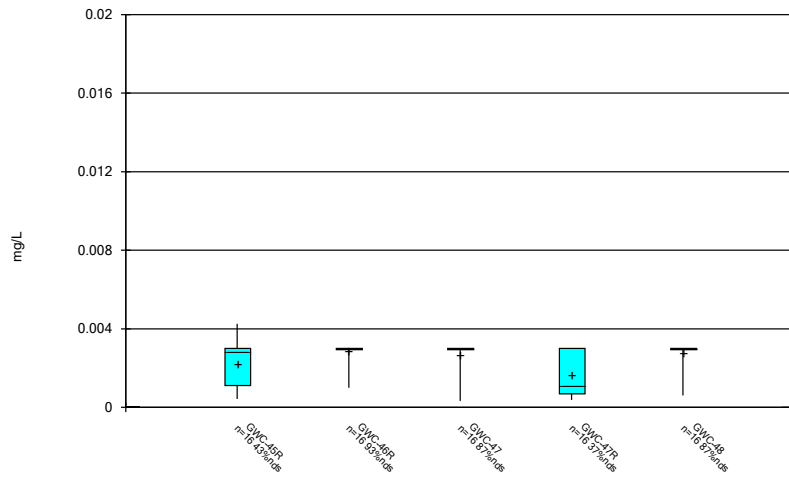
Constituent: Antimony Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



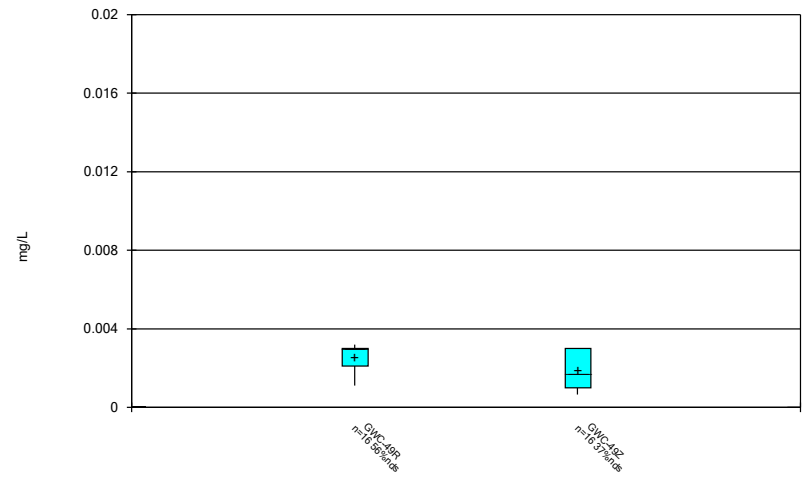
Constituent: Antimony Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



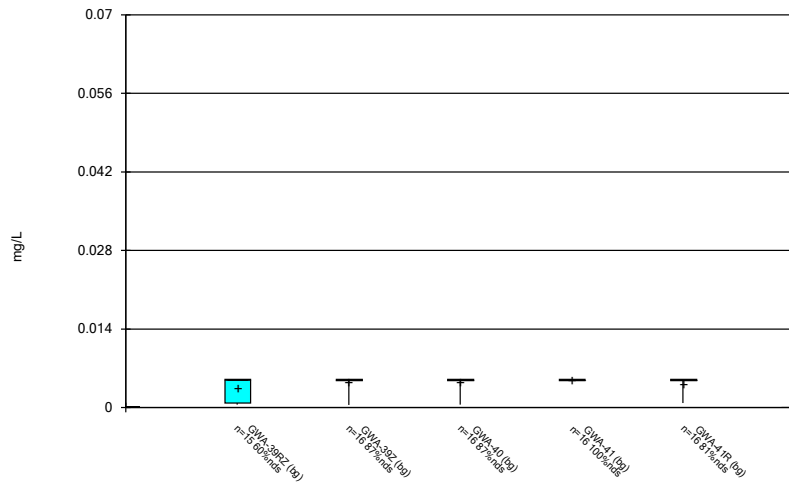
Constituent: Antimony Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



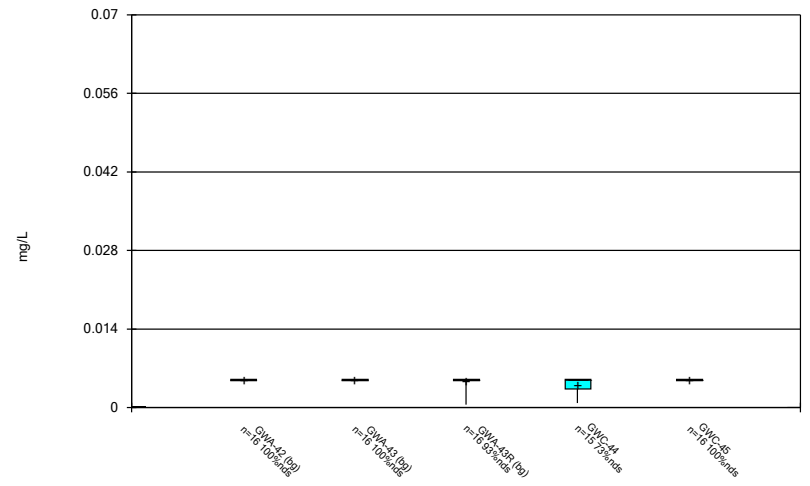
Constituent: Antimony Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



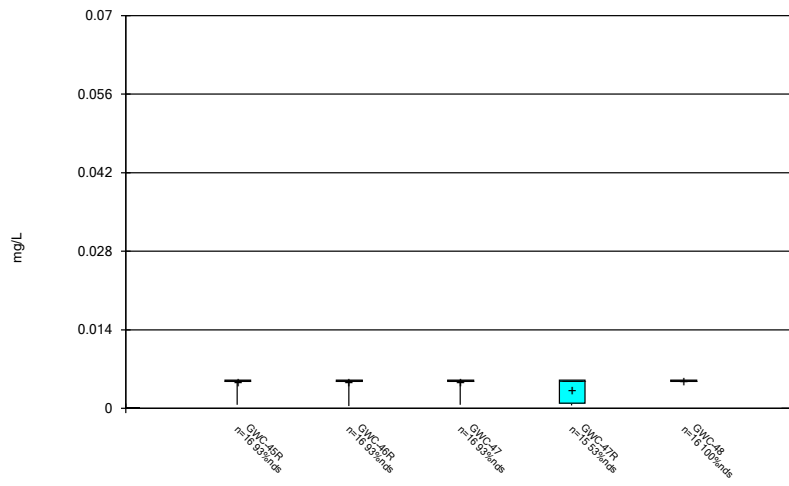
Constituent: Arsenic Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



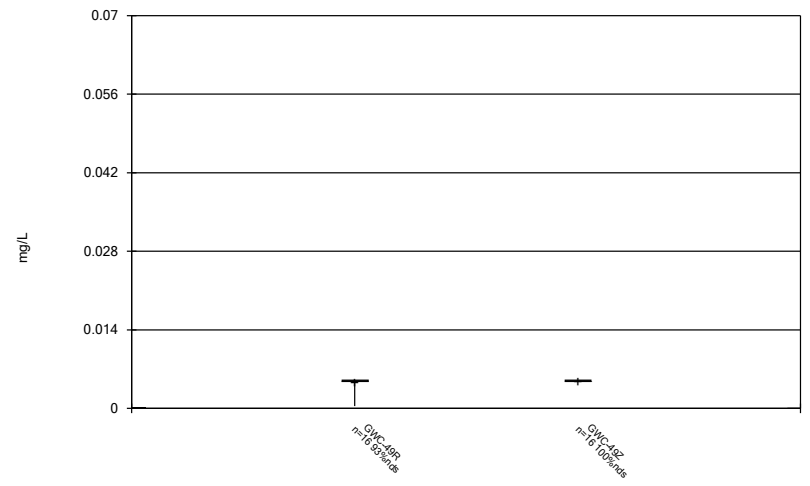
Constituent: Arsenic Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



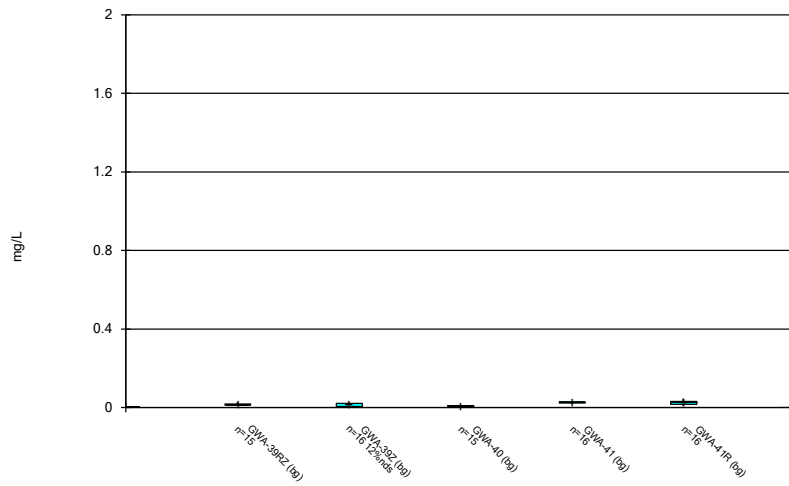
Constituent: Arsenic Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



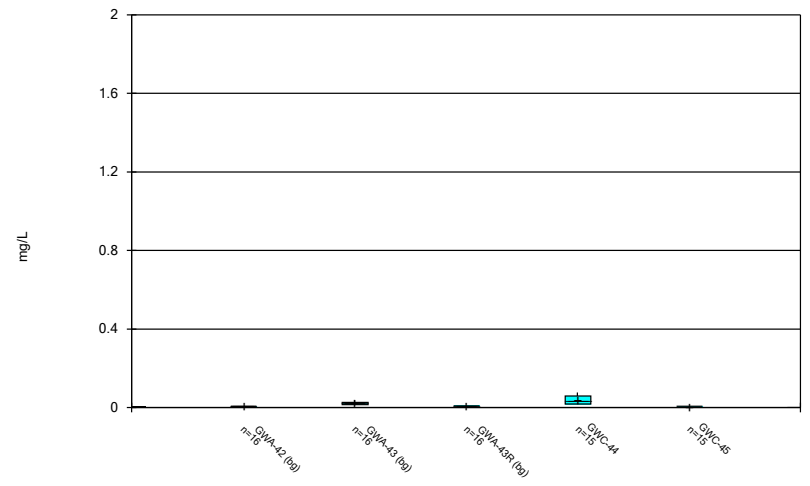
Constituent: Arsenic Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



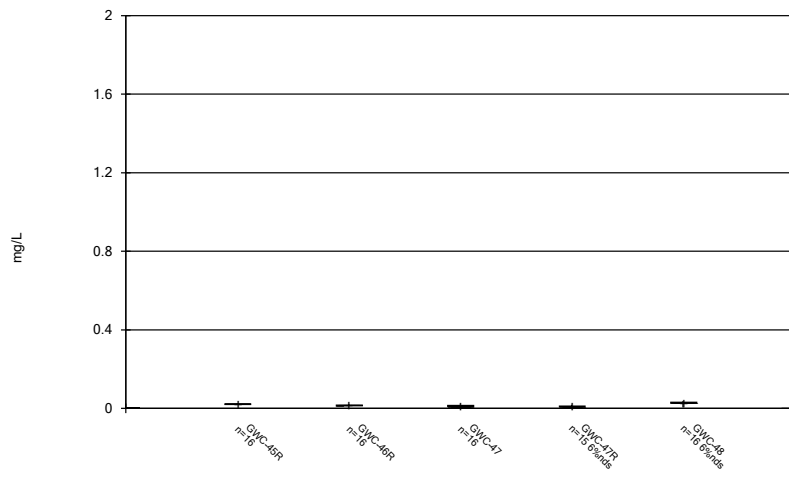
Constituent: Barium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



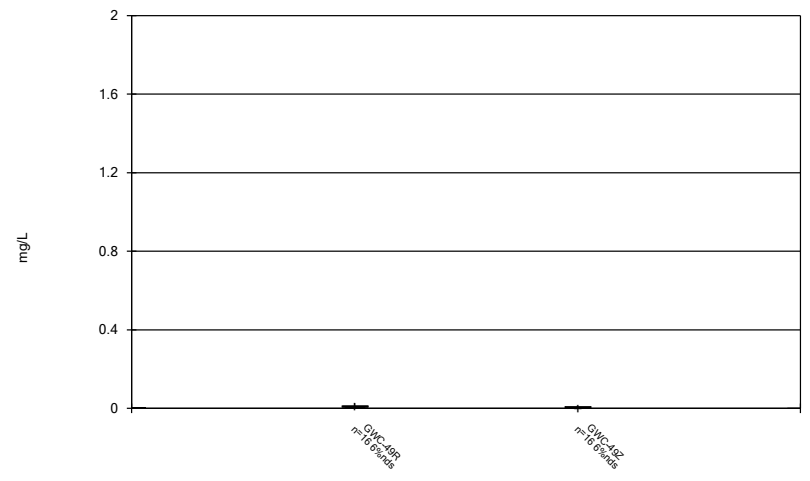
Constituent: Barium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



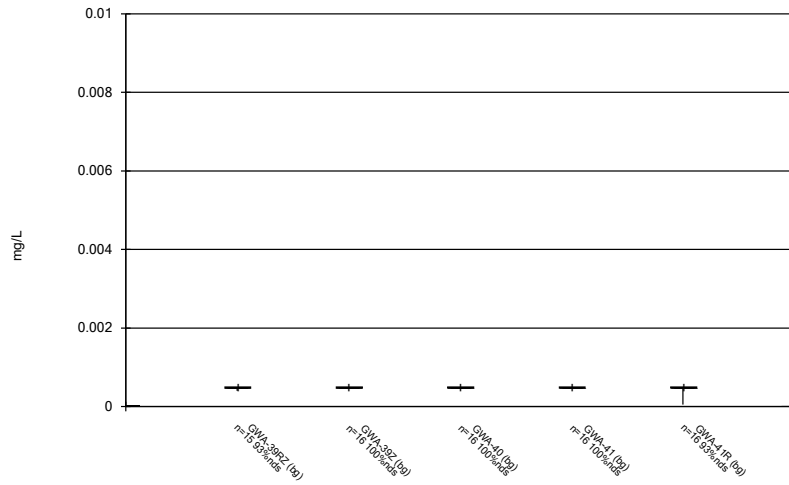
Constituent: Barium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



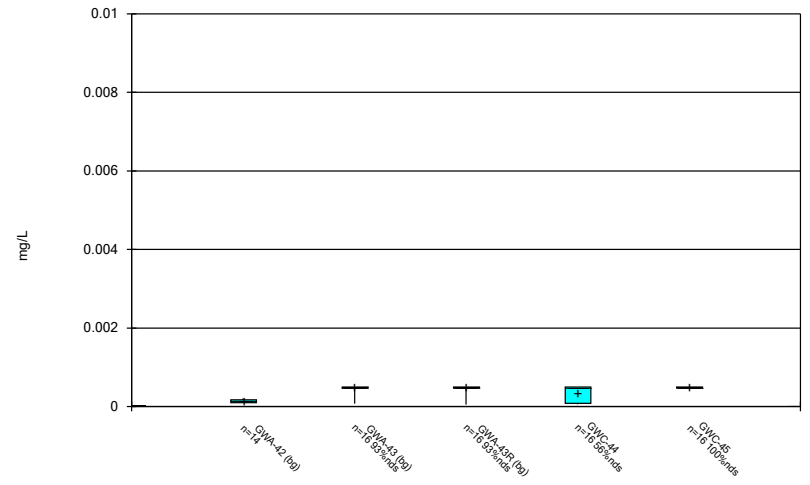
Constituent: Barium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



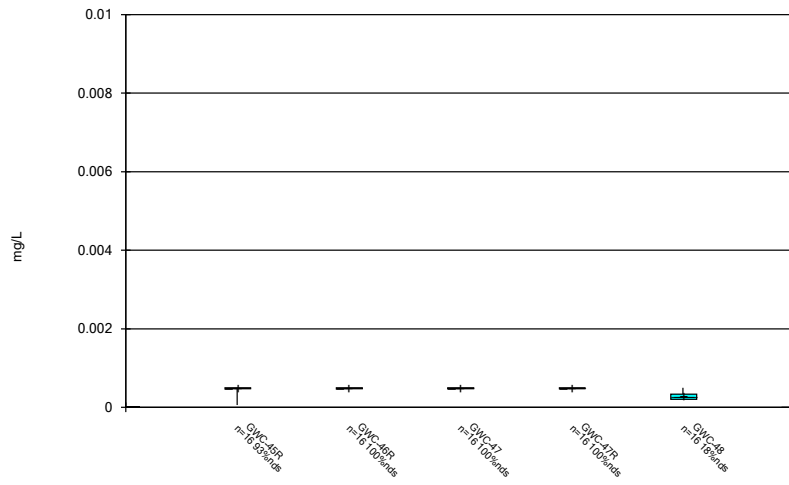
Constituent: Beryllium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



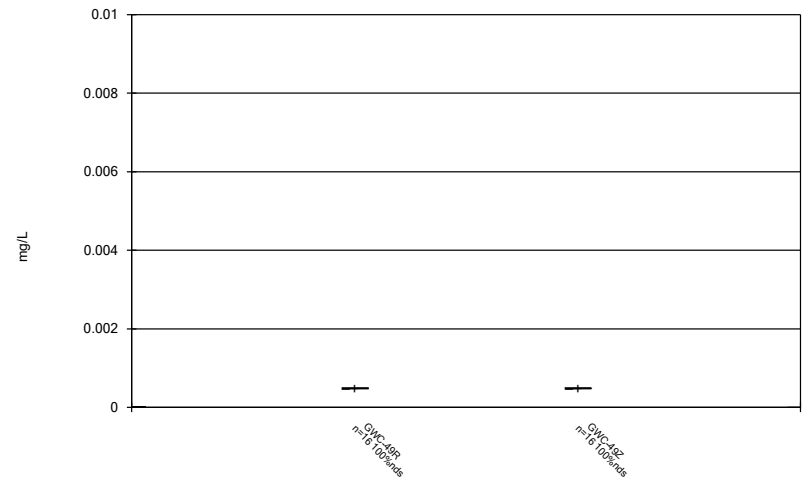
Constituent: Beryllium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



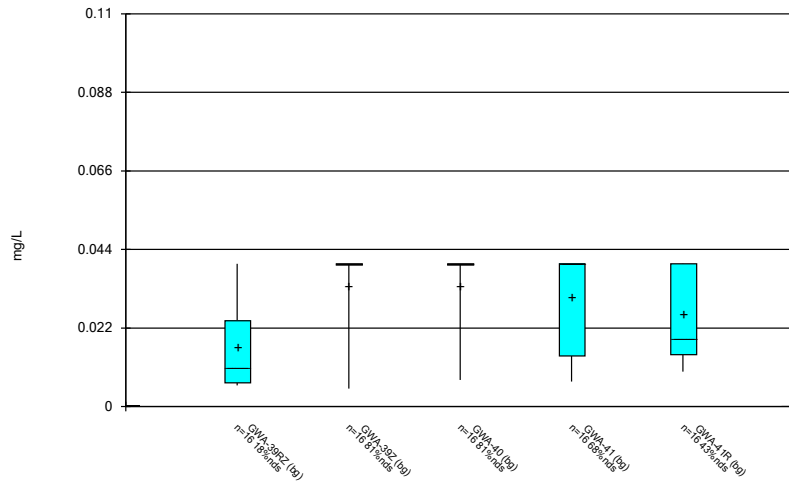
Constituent: Beryllium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



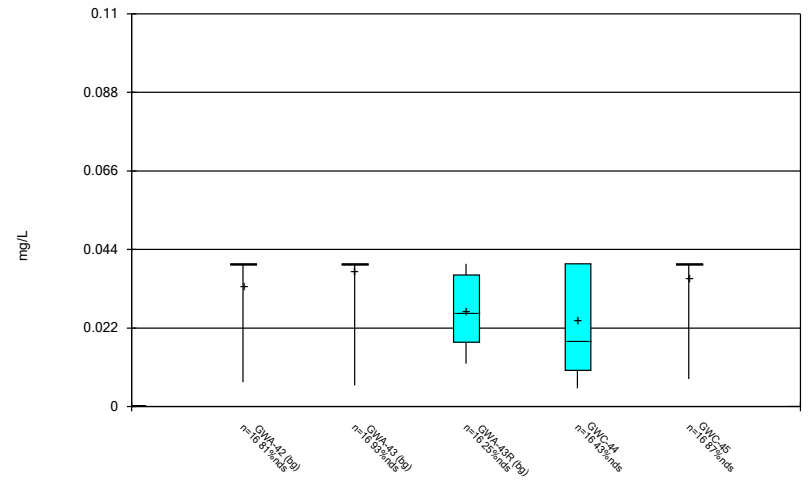
Constituent: Beryllium Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



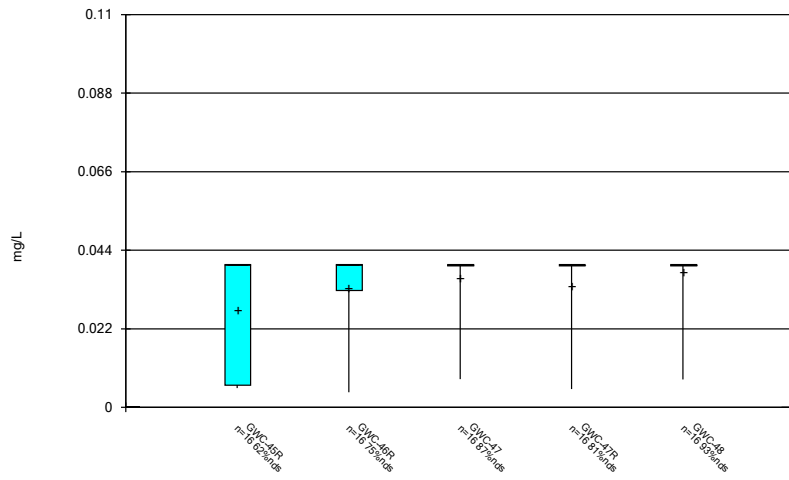
Constituent: Boron Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



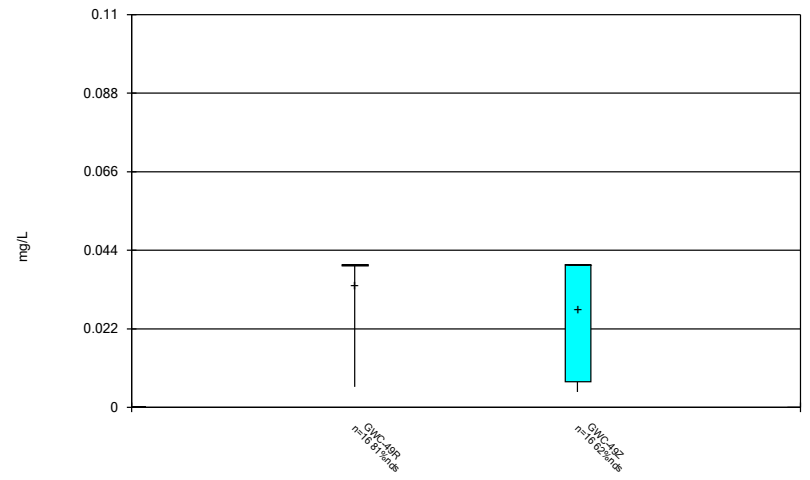
Constituent: Boron Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



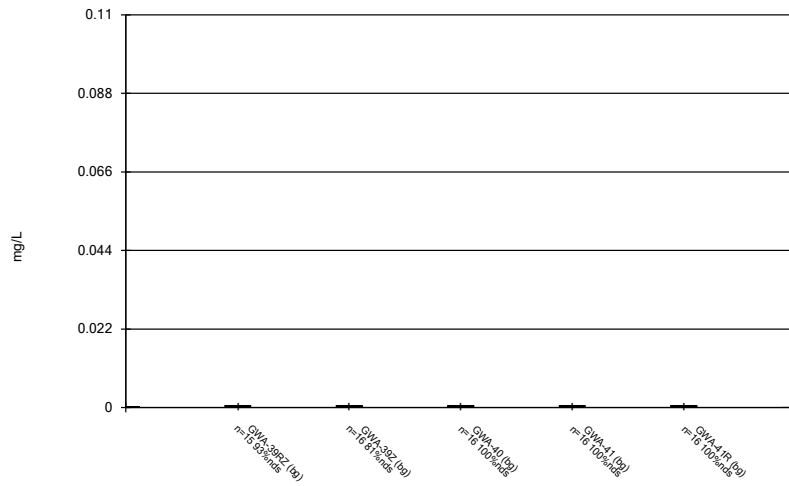
Constituent: Boron Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



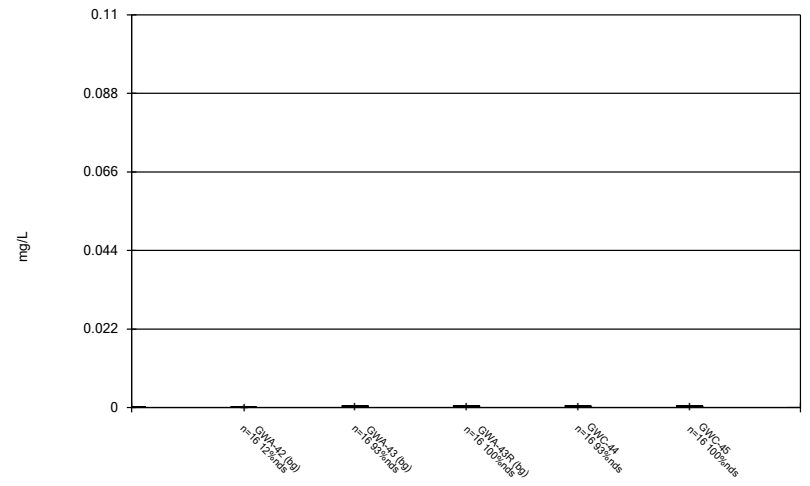
Constituent: Boron Analysis Run 4/29/2021 10:35 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



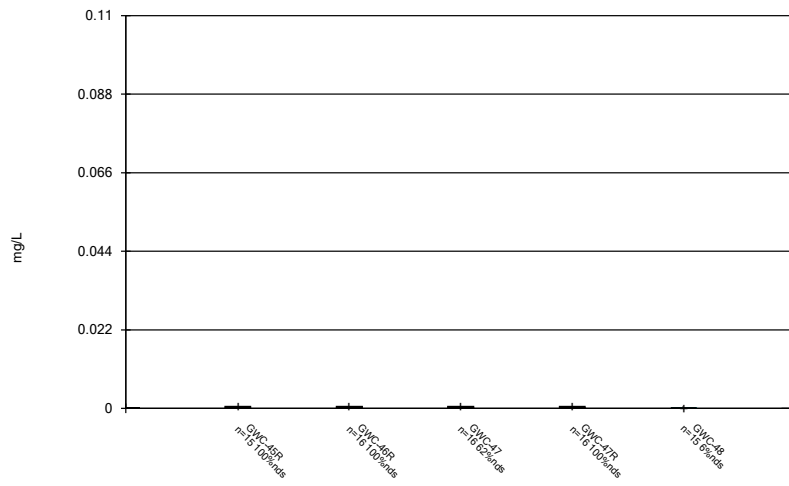
Constituent: Cadmium Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



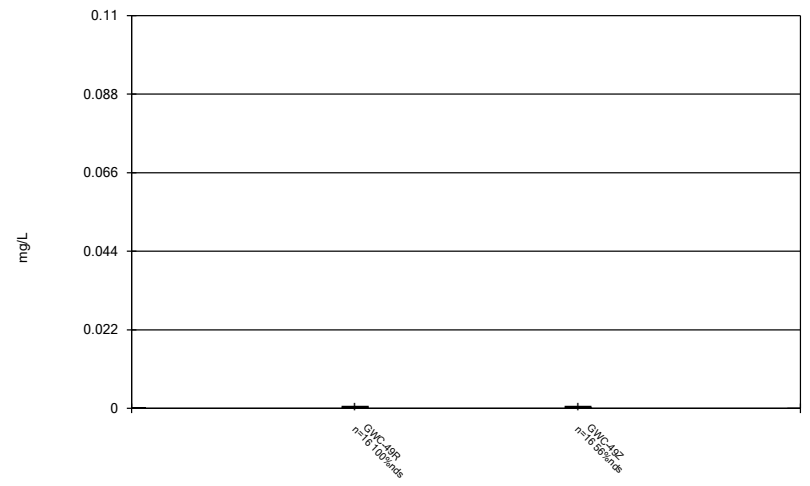
Constituent: Cadmium Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



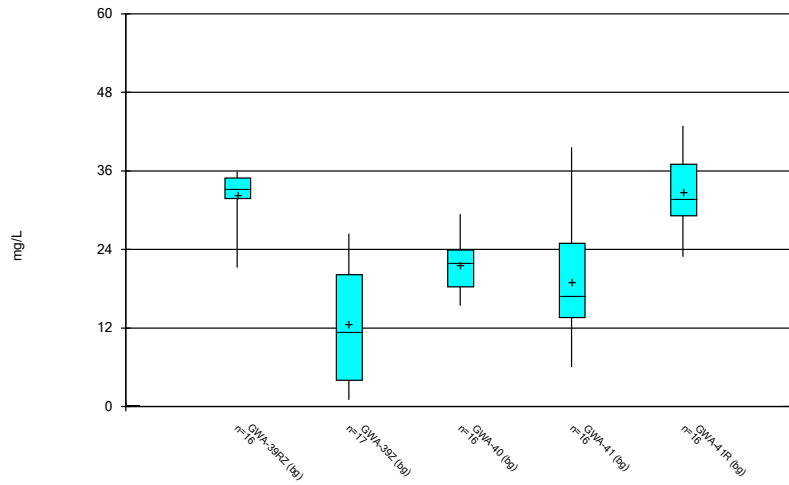
Constituent: Cadmium Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



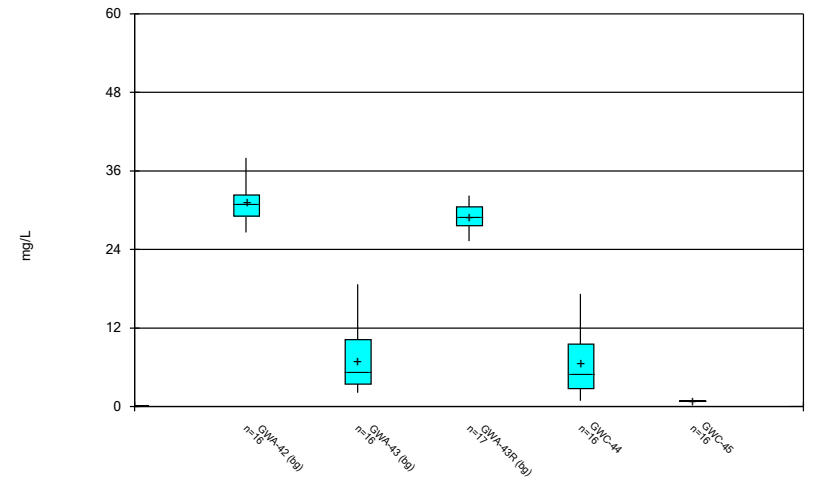
Constituent: Cadmium Analysis Run 4/29/2021 10:35 AM
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



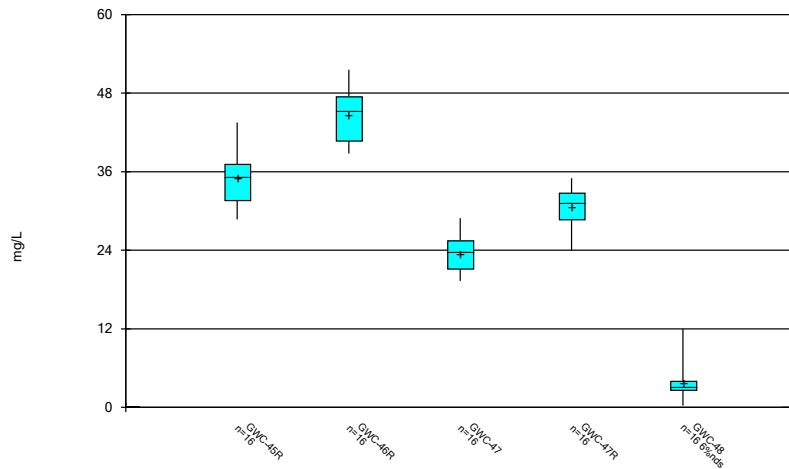
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



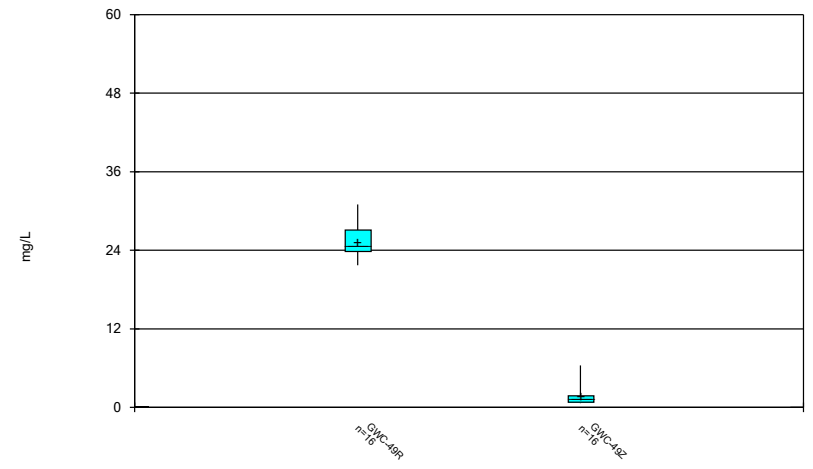
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



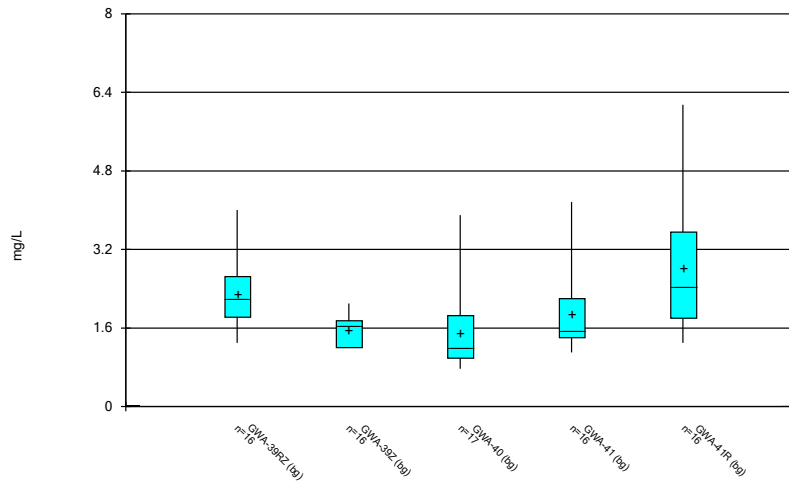
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Box & Whiskers Plot



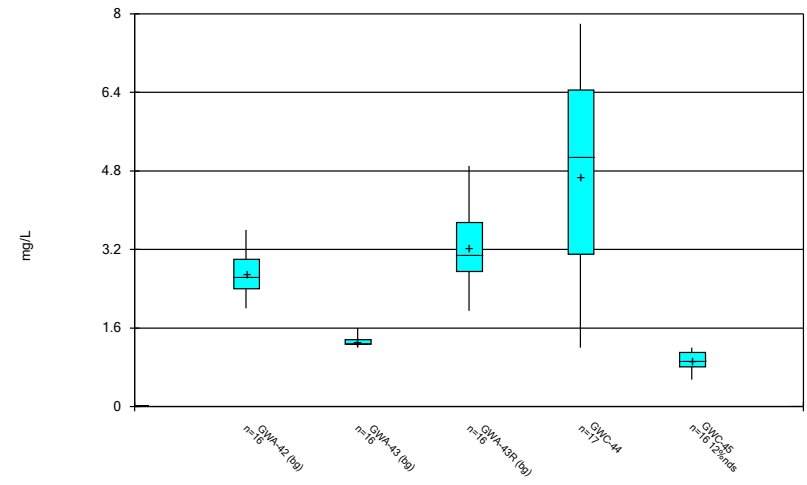
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Box & Whiskers Plot



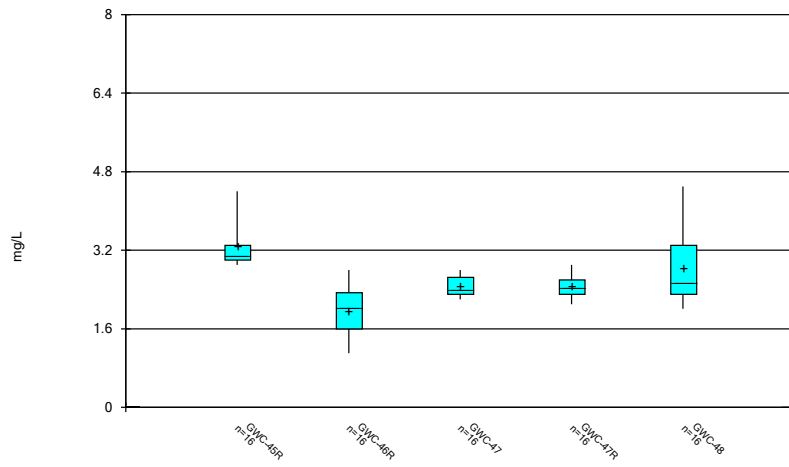
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Box & Whiskers Plot



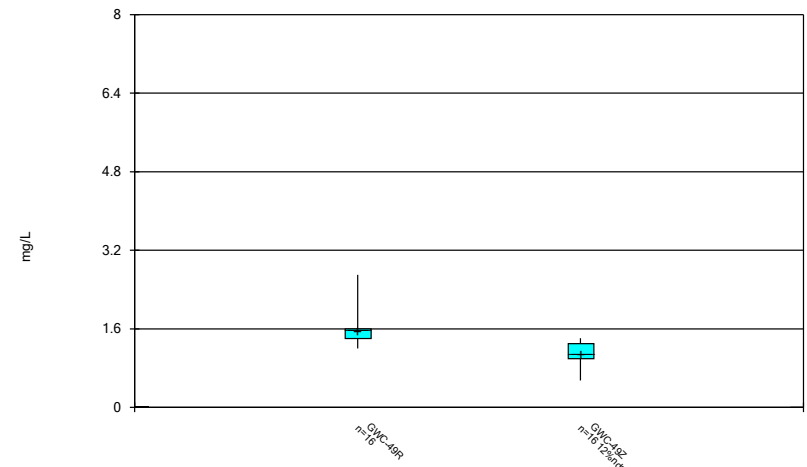
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Box & Whiskers Plot



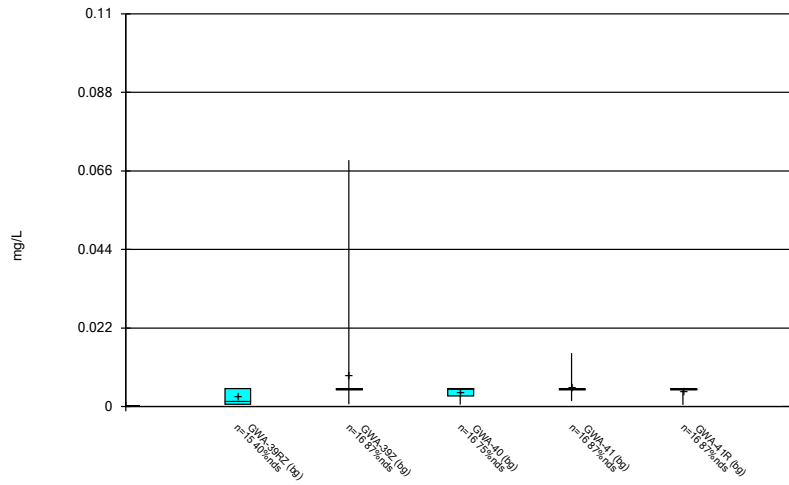
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Box & Whiskers Plot



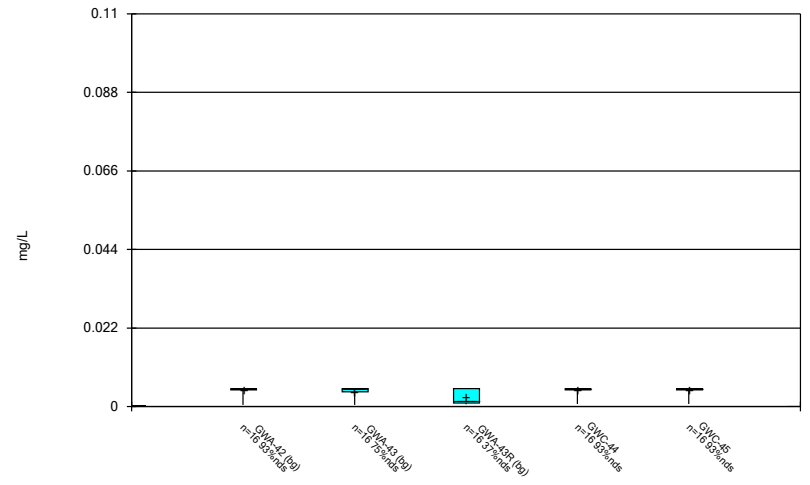
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Box & Whiskers Plot



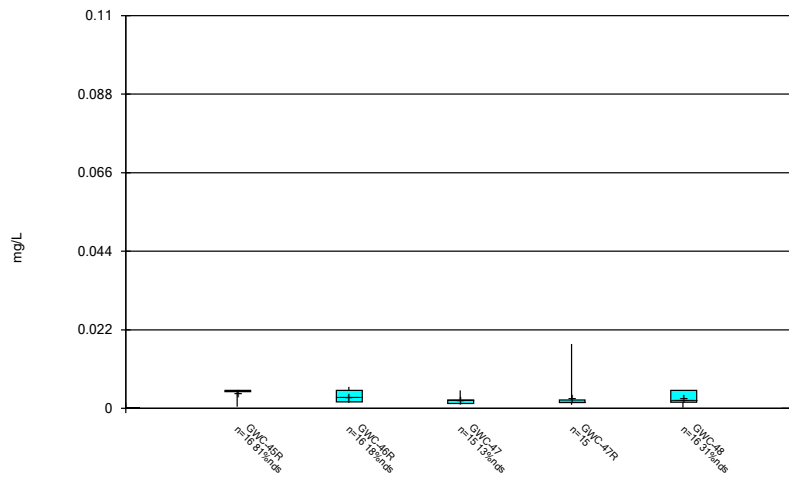
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Box & Whiskers Plot



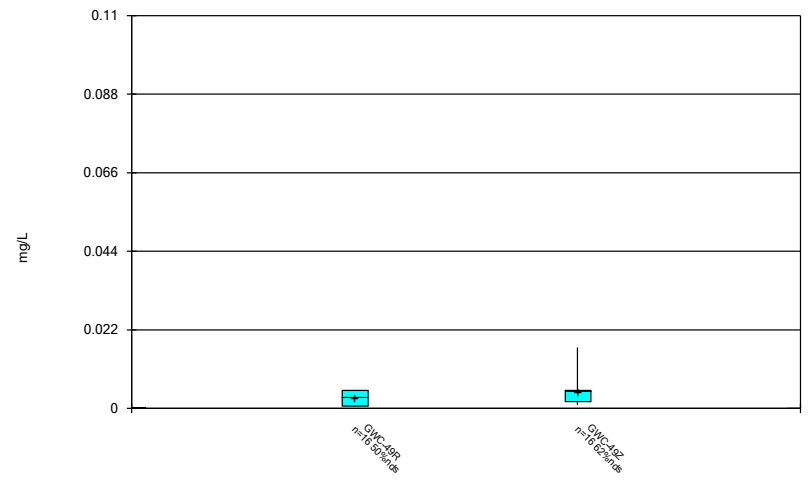
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Box & Whiskers Plot



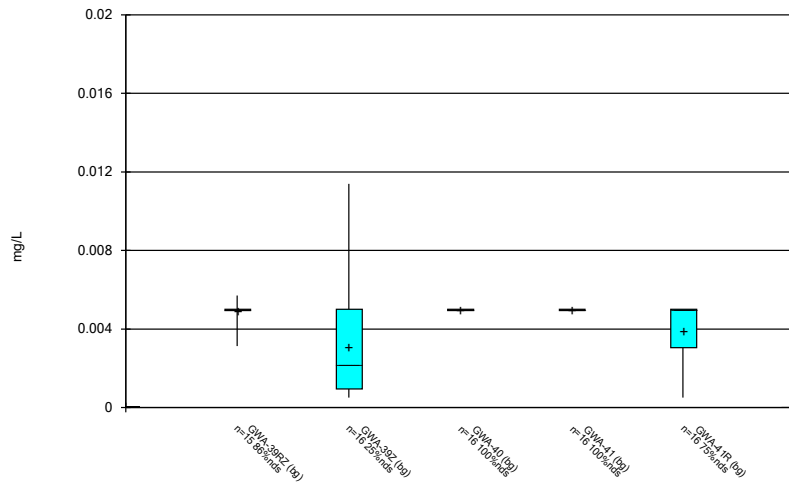
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Box & Whiskers Plot



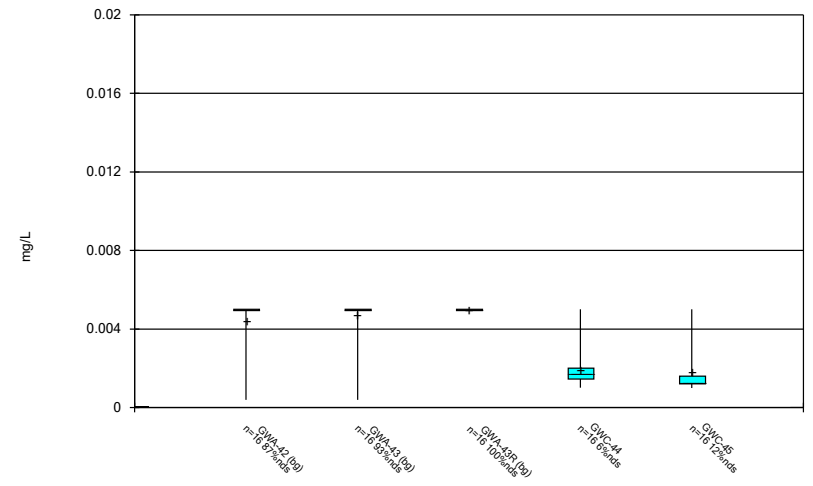
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Box & Whiskers Plot



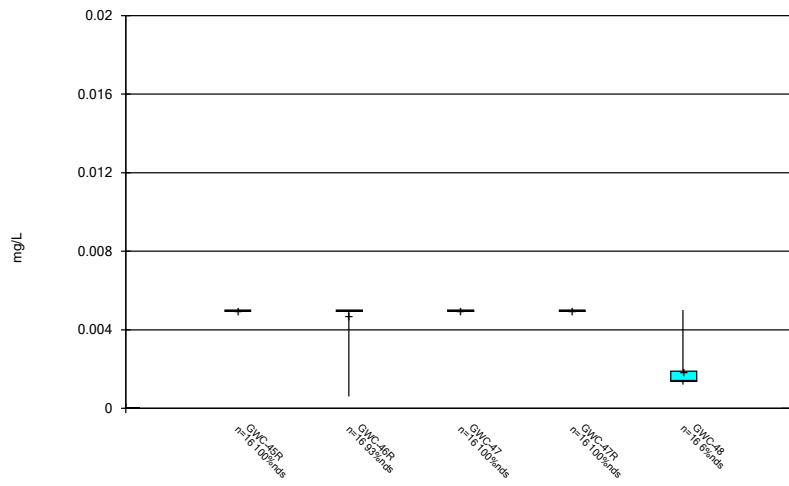
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Box & Whiskers Plot



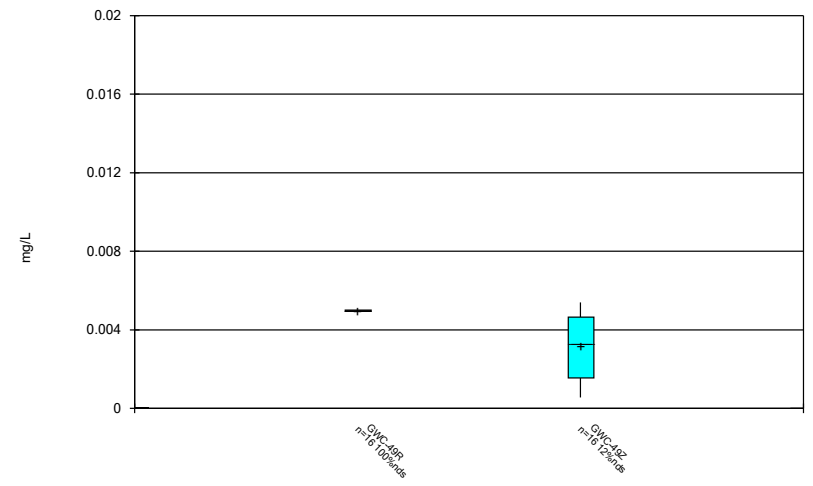
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Box & Whiskers Plot



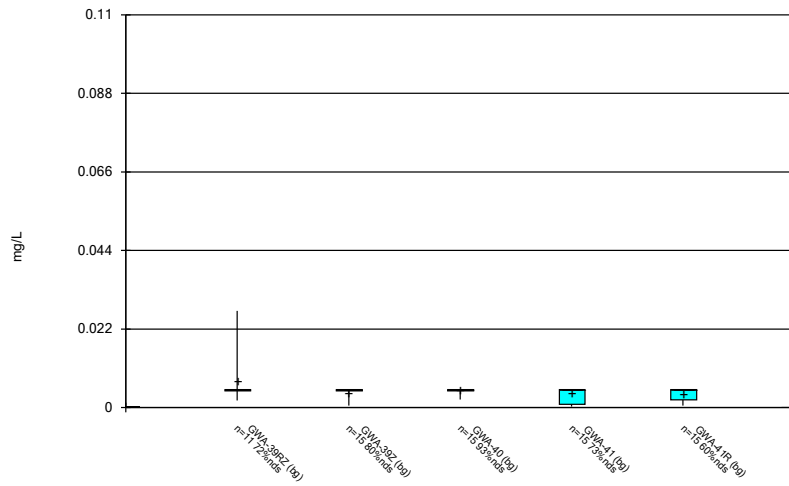
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Box & Whiskers Plot



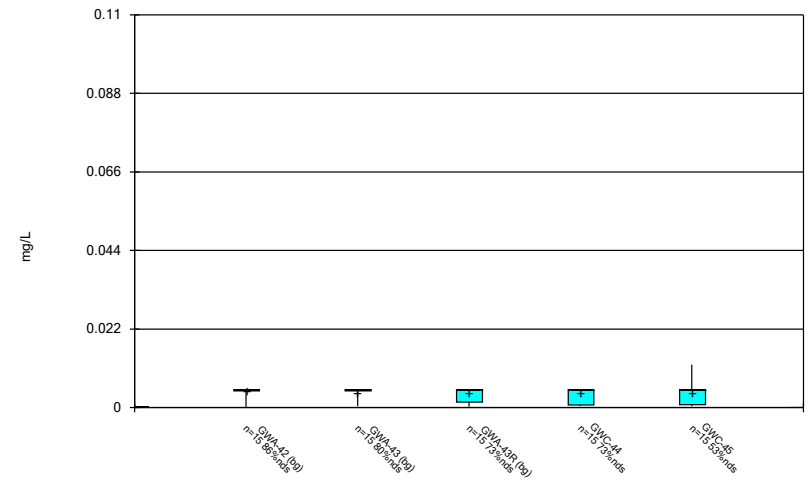
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Box & Whiskers Plot



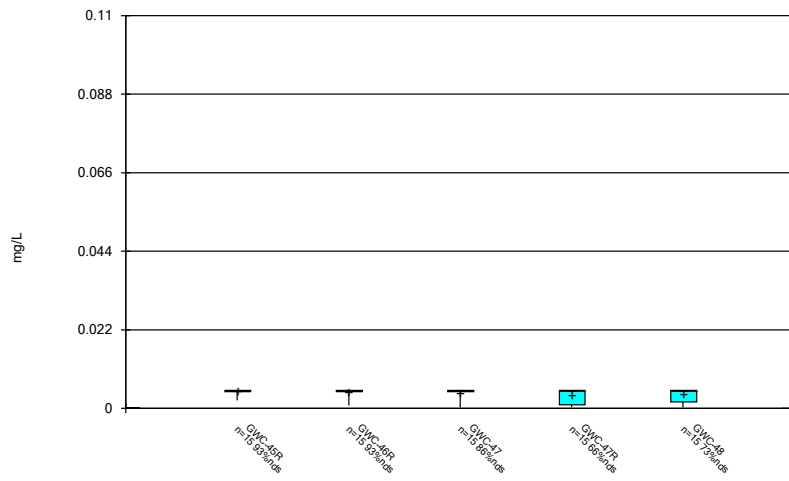
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Box & Whiskers Plot



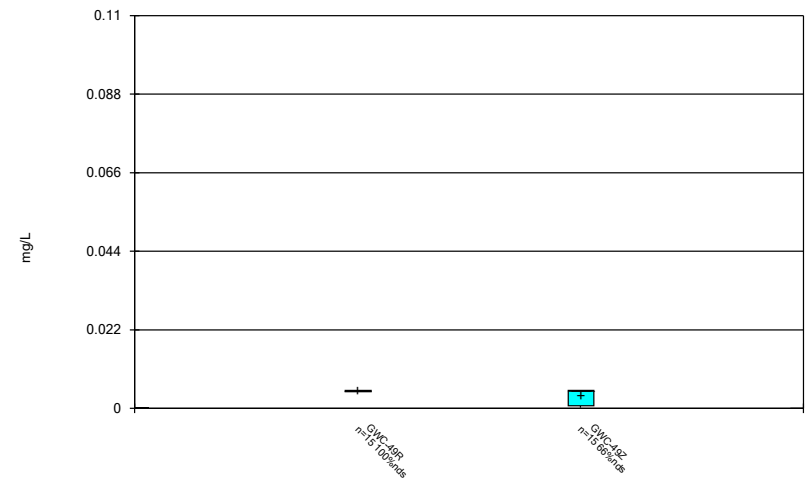
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



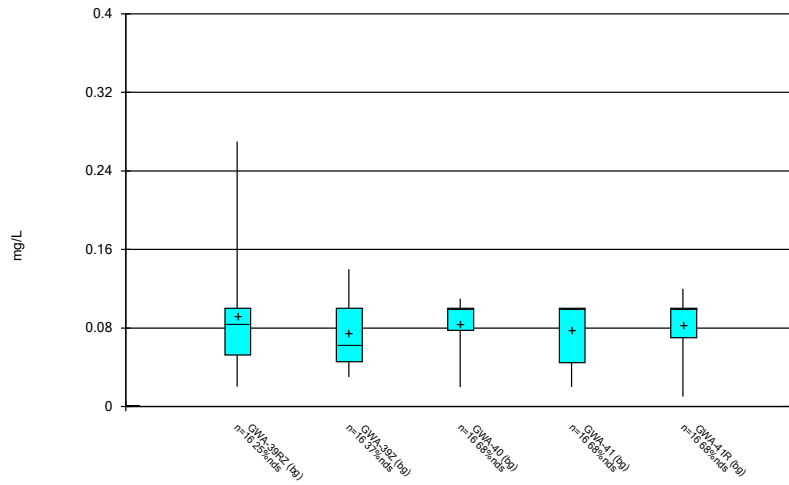
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Box & Whiskers Plot



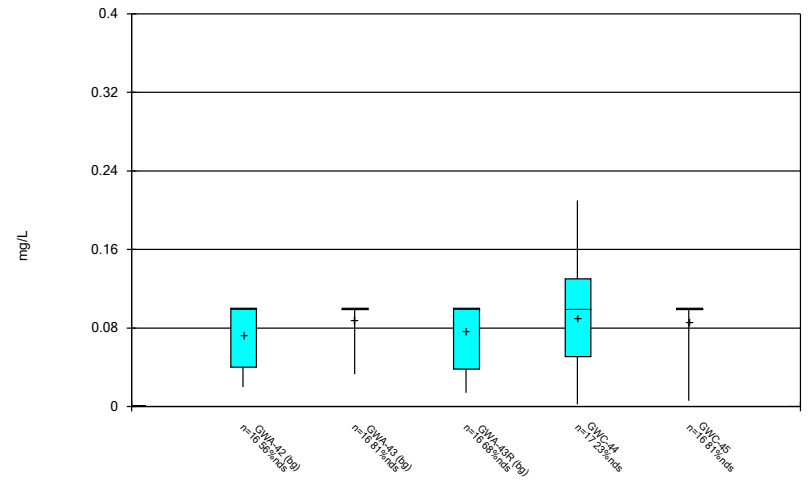
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Box & Whiskers Plot



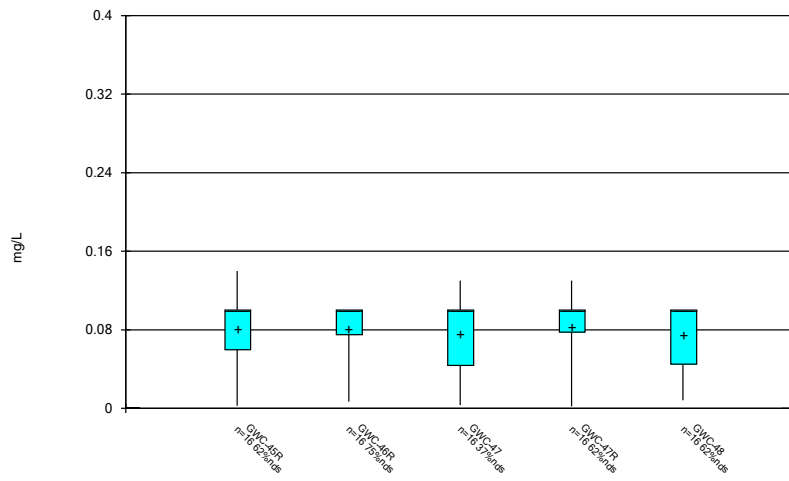
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Box & Whiskers Plot



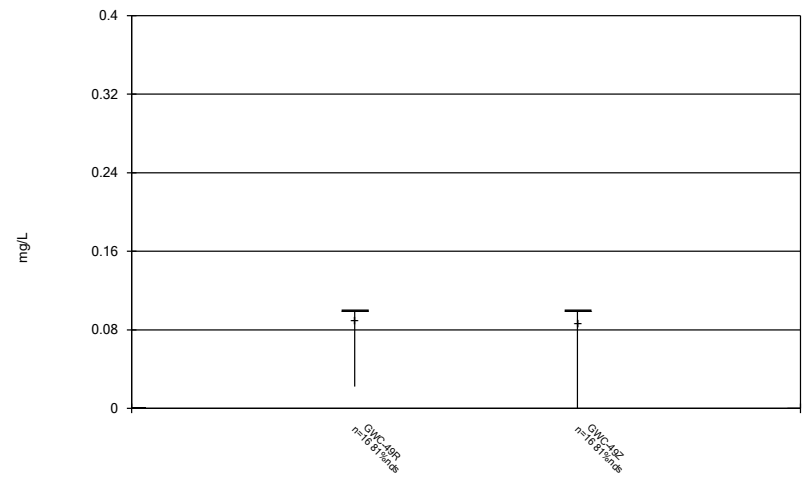
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Box & Whiskers Plot



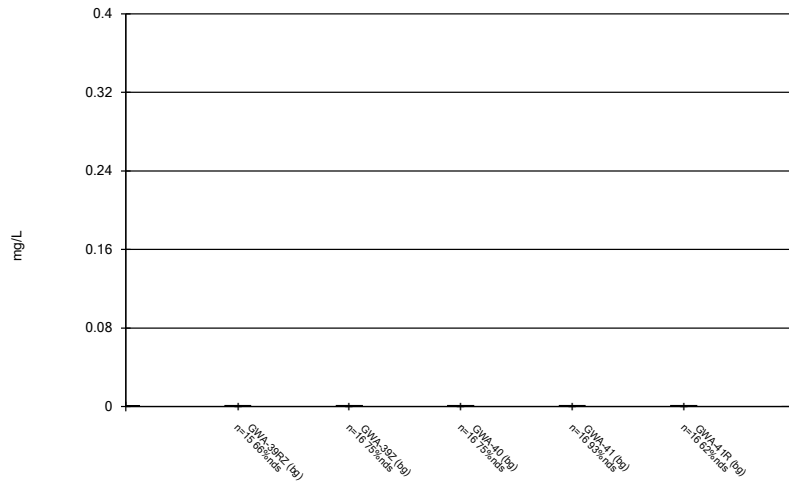
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Box & Whiskers Plot



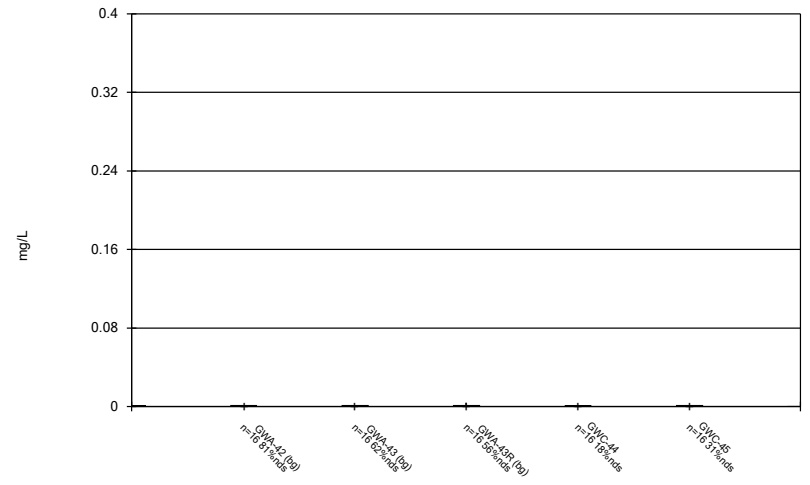
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Box & Whiskers Plot



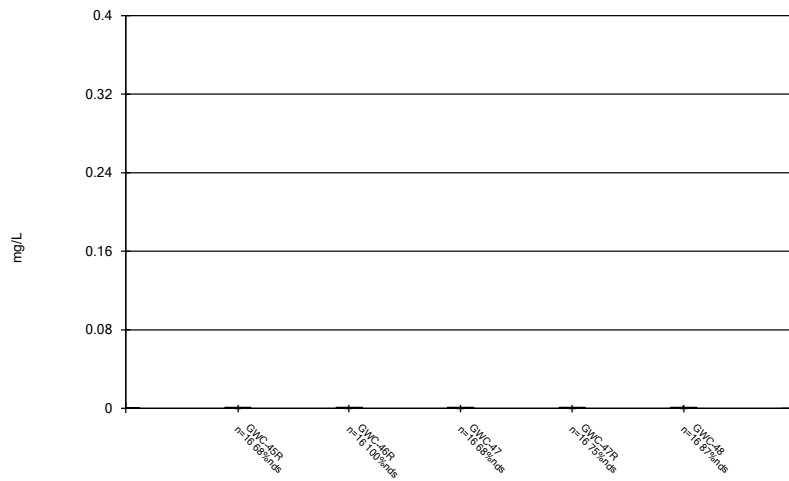
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Box & Whiskers Plot



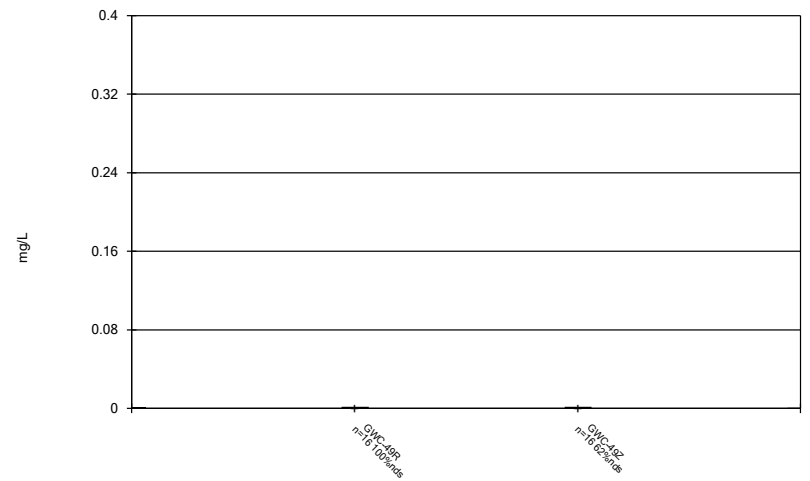
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Box & Whiskers Plot



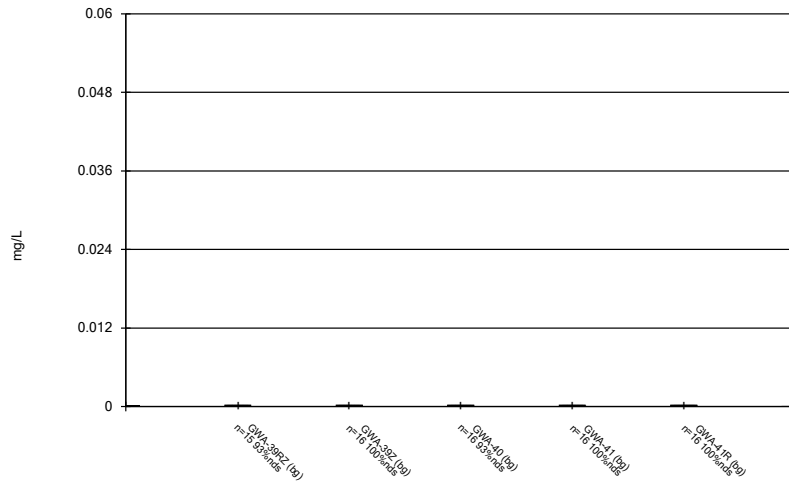
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Box & Whiskers Plot



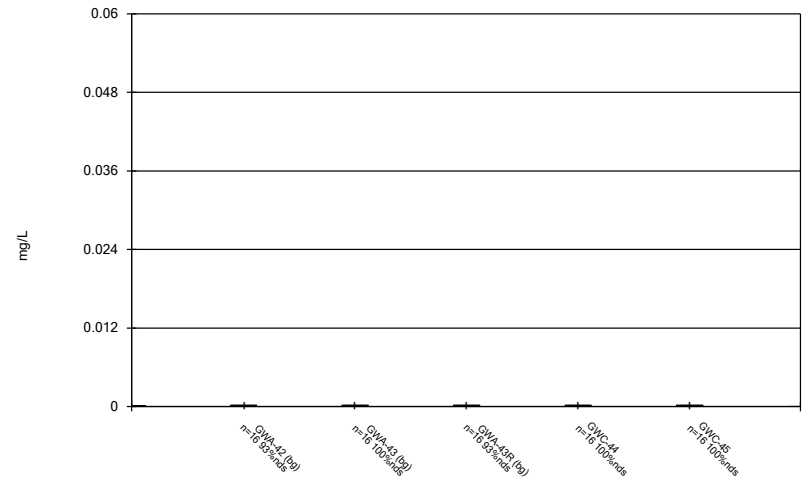
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Box & Whiskers Plot



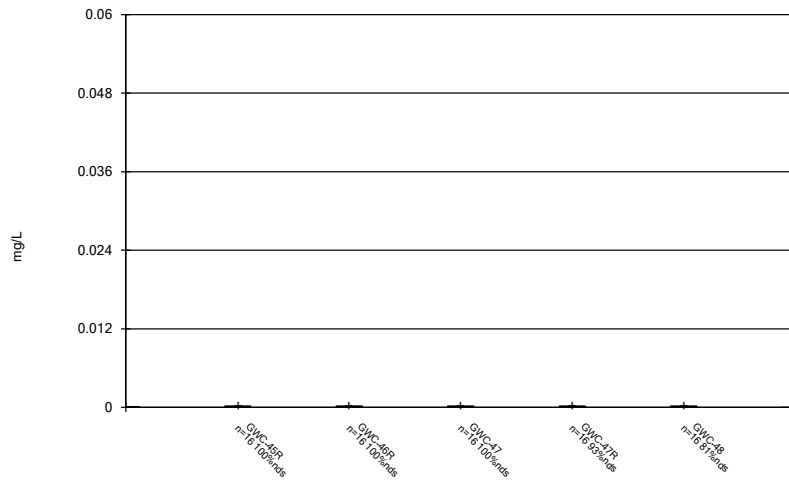
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



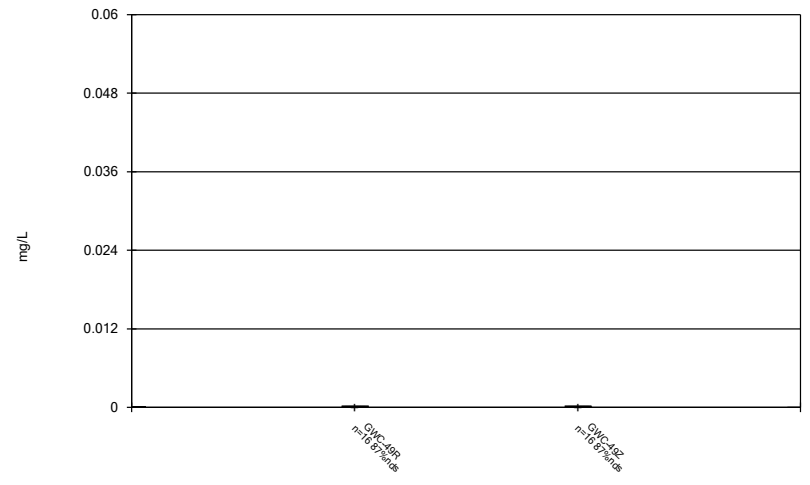
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



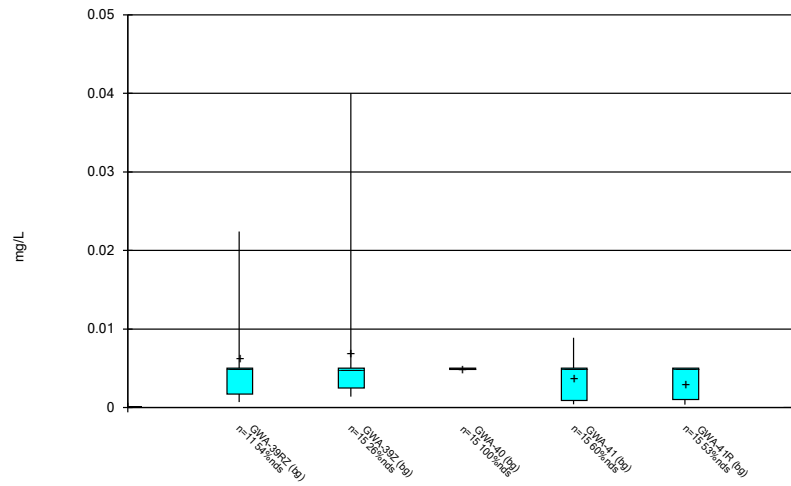
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Box & Whiskers Plot



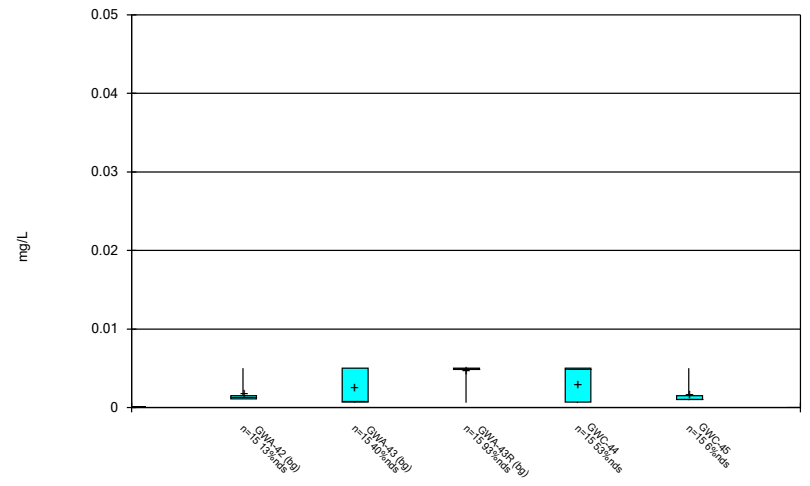
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



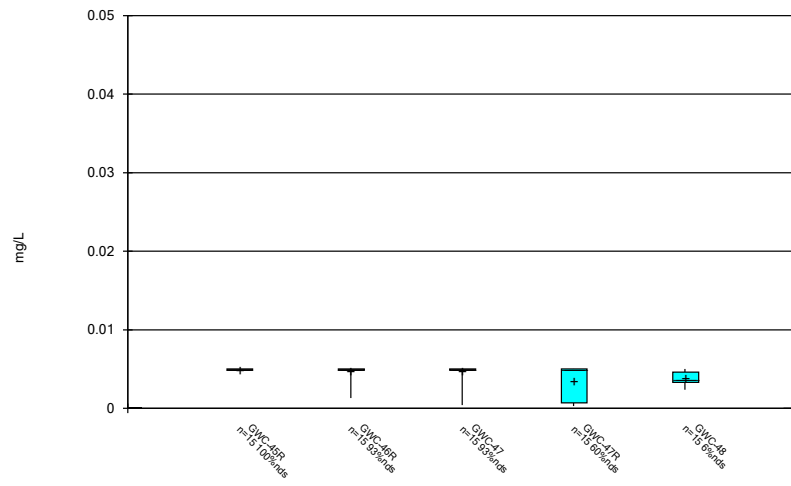
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Box & Whiskers Plot



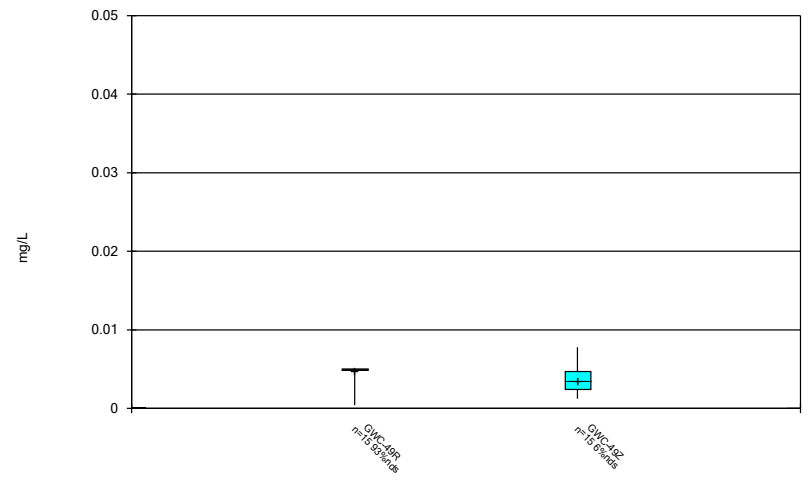
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



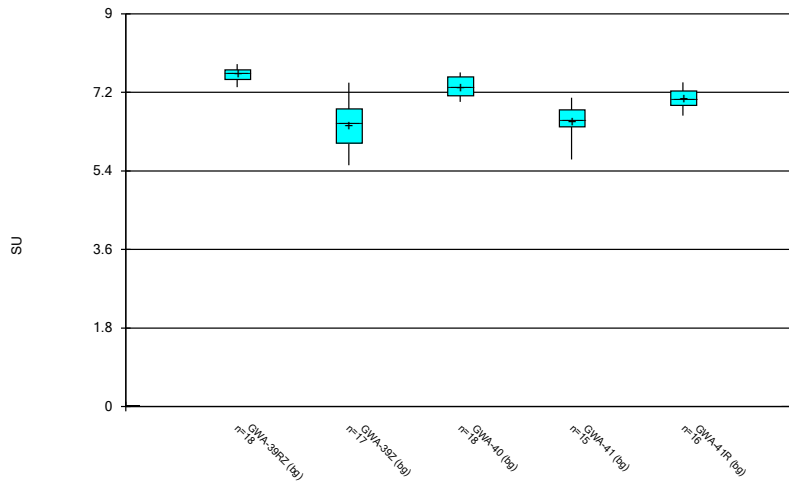
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



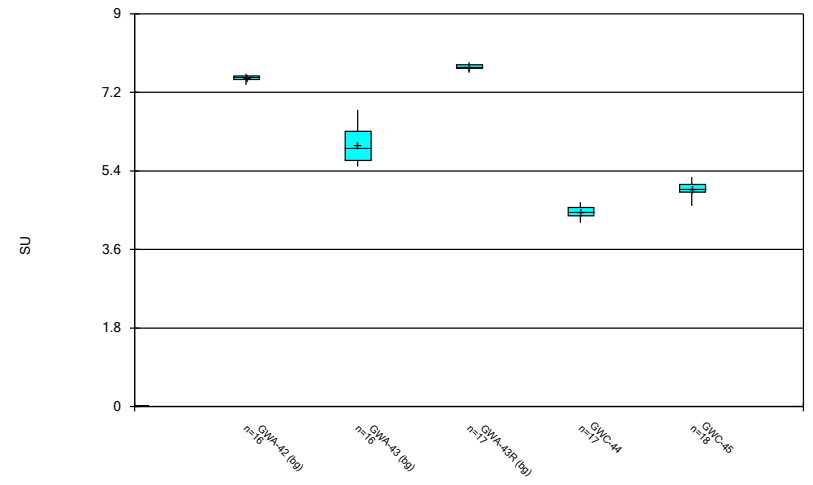
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



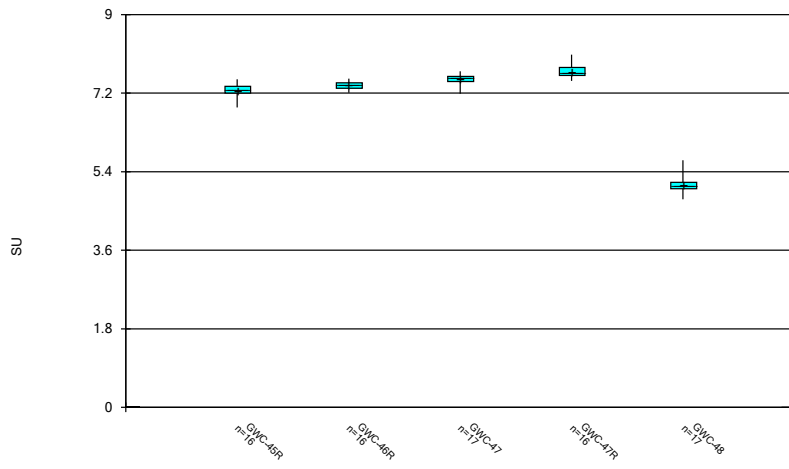
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Box & Whiskers Plot



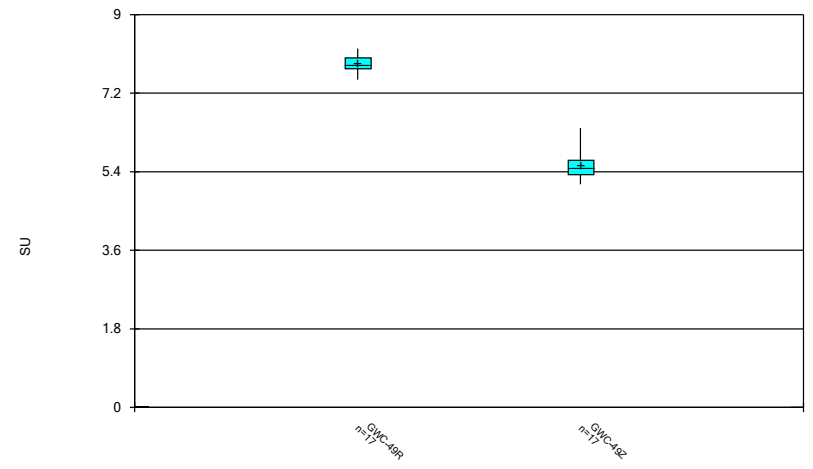
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Box & Whiskers Plot



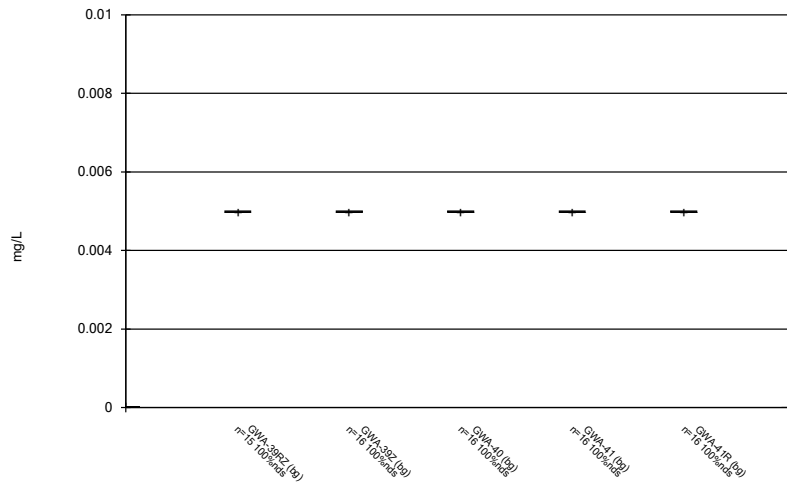
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Box & Whiskers Plot



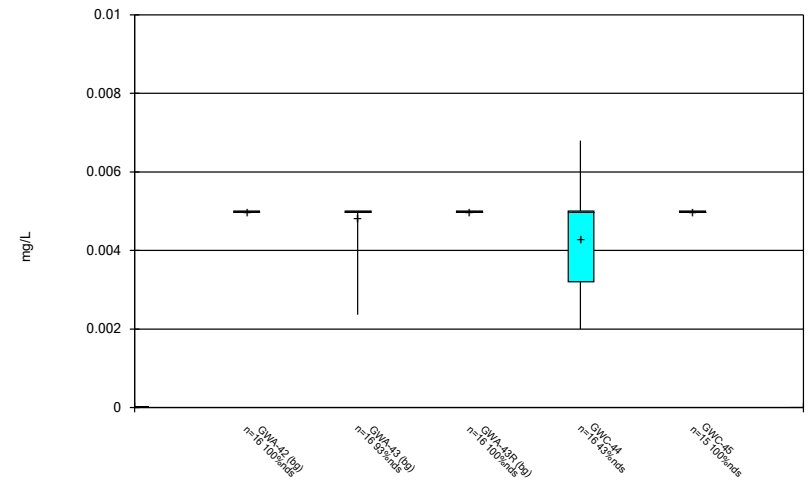
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



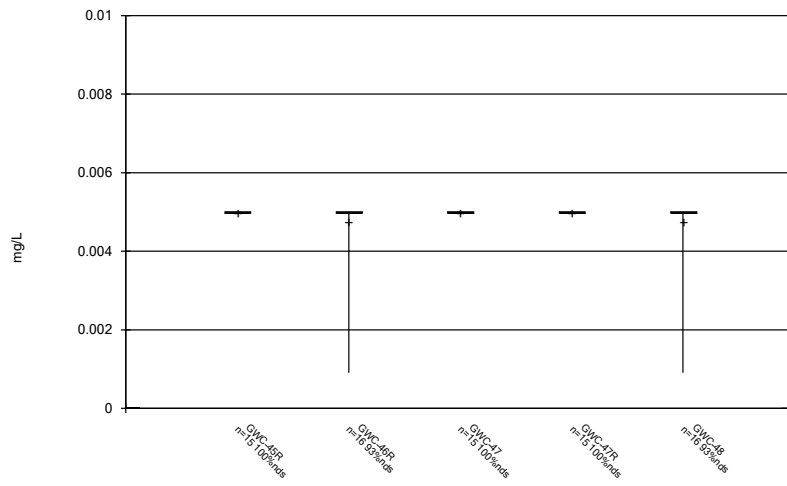
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



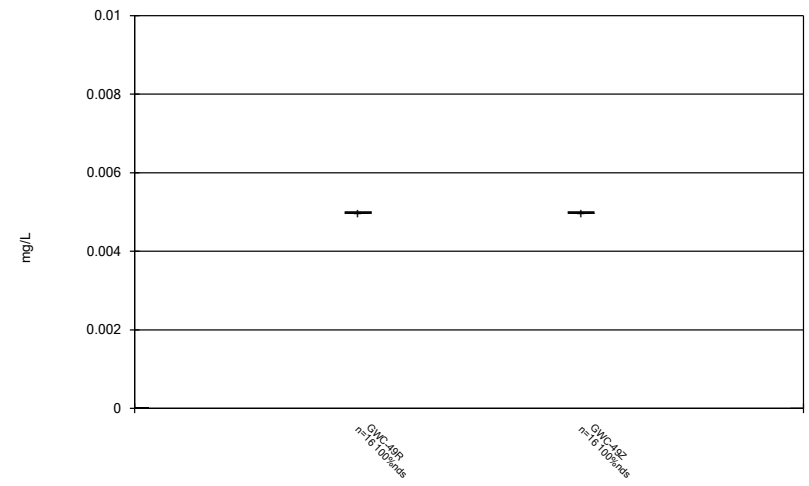
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



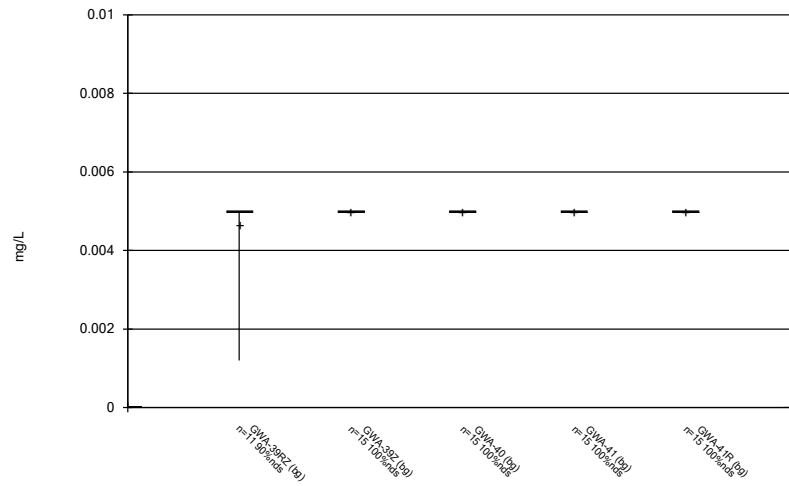
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Box & Whiskers Plot



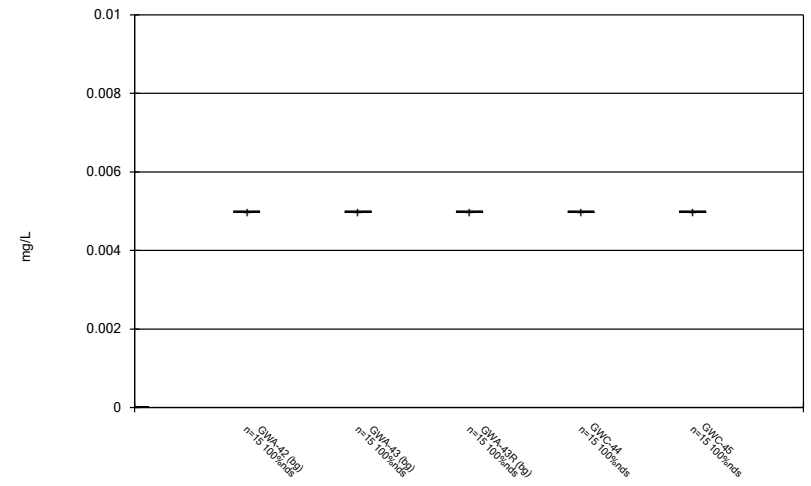
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Box & Whiskers Plot



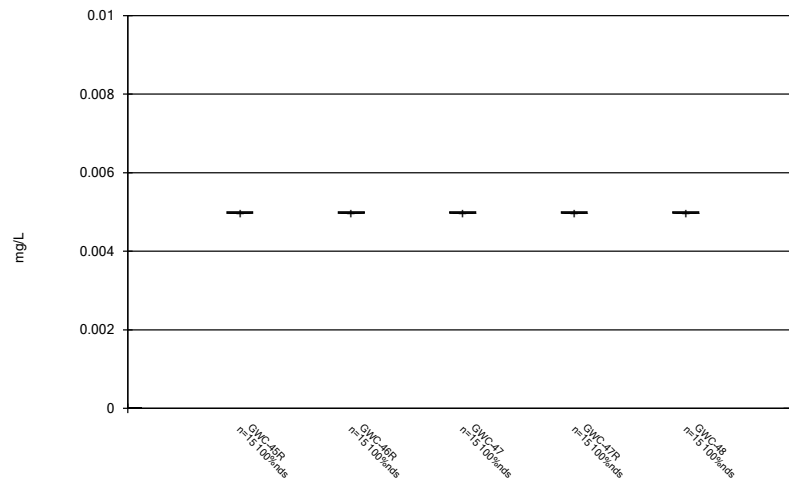
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Box & Whiskers Plot



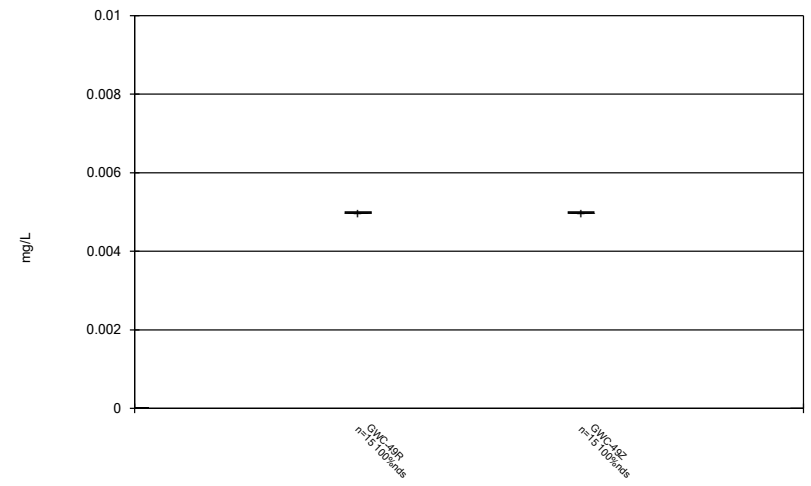
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



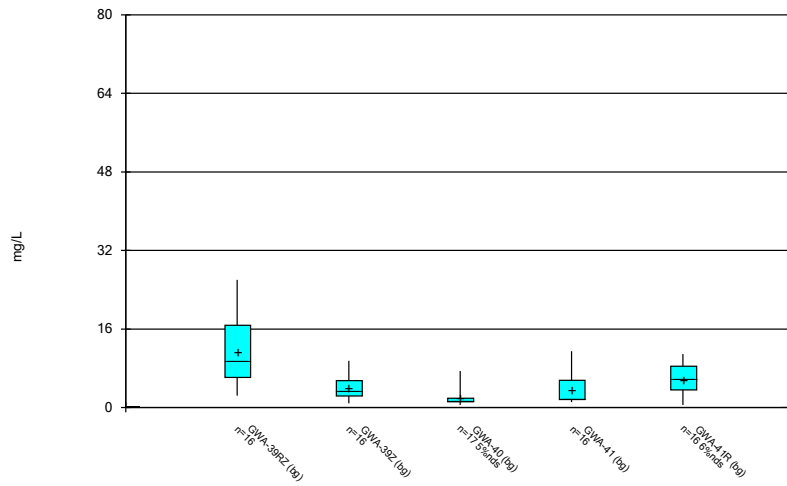
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



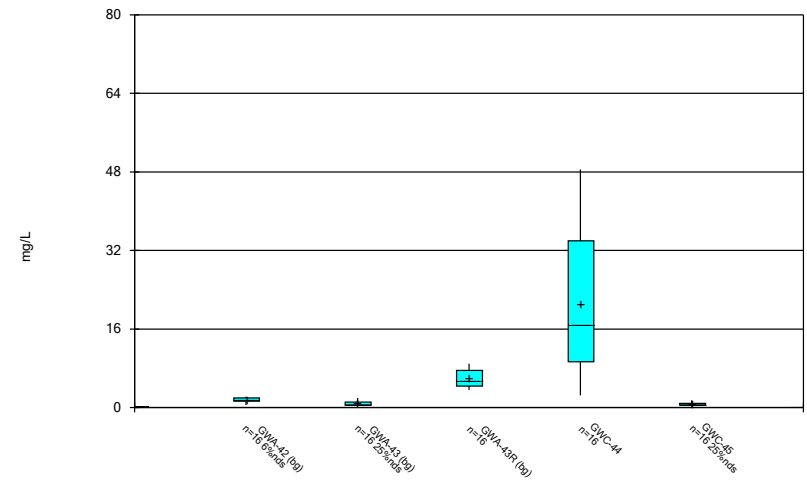
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



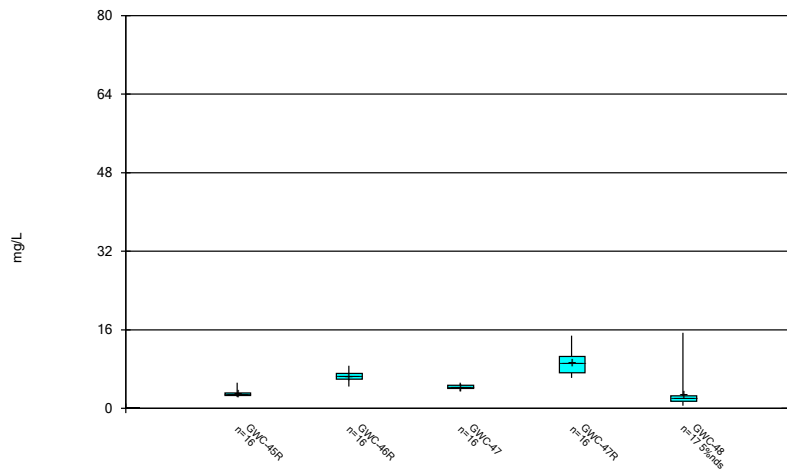
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Box & Whiskers Plot



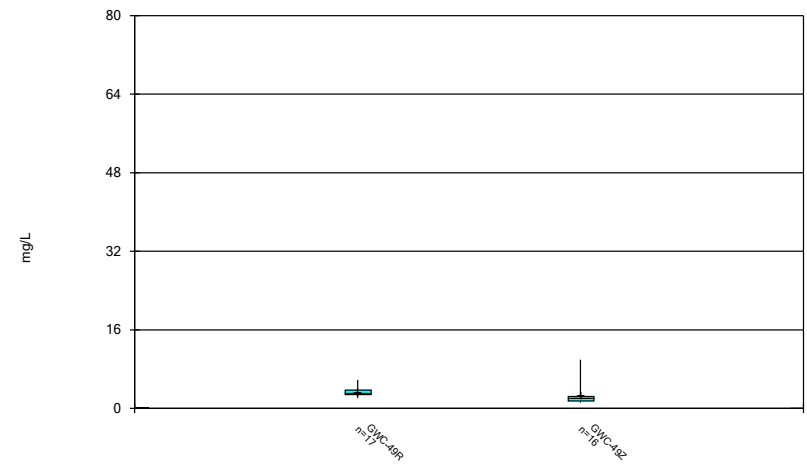
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



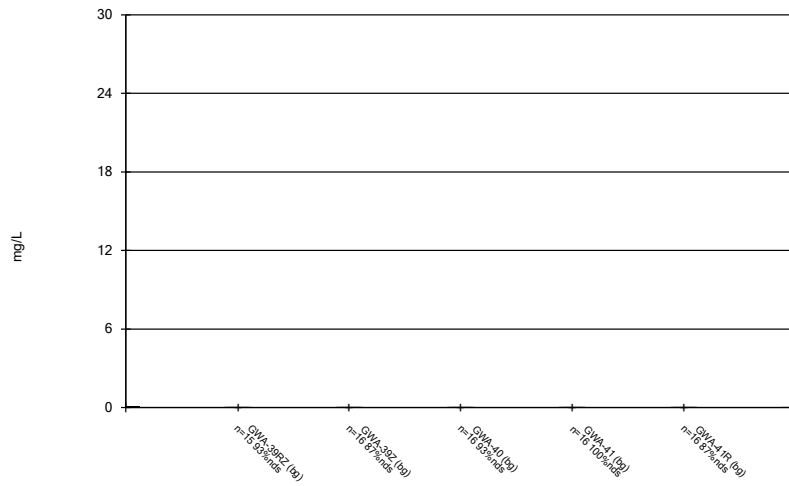
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Box & Whiskers Plot



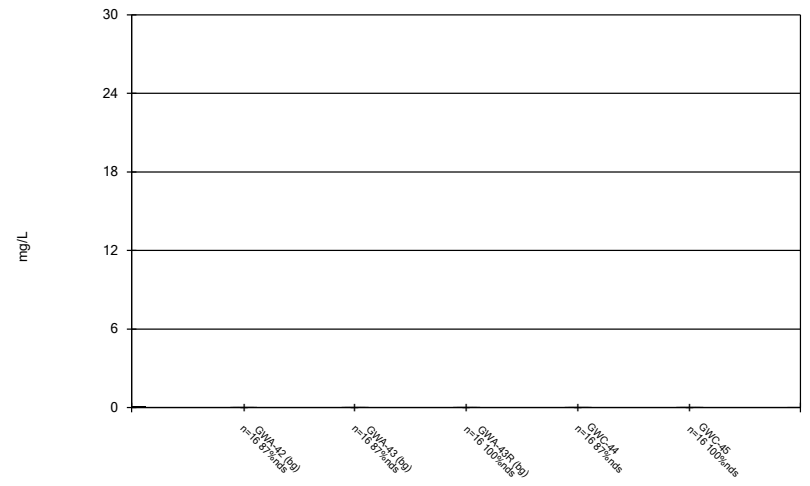
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



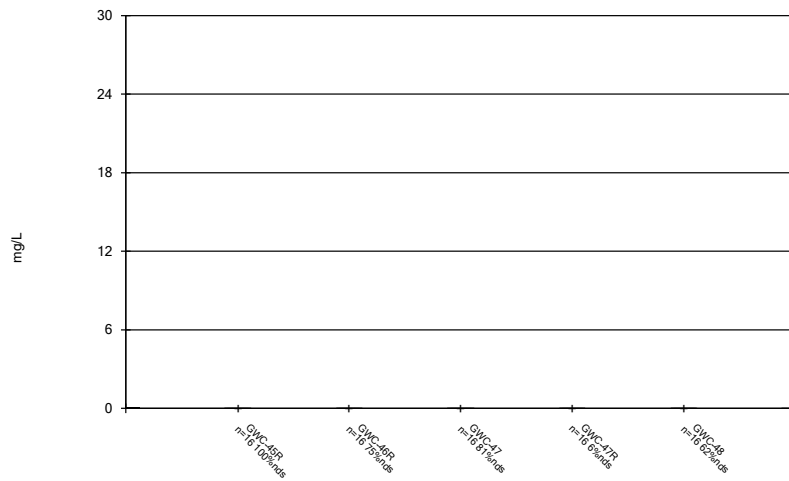
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



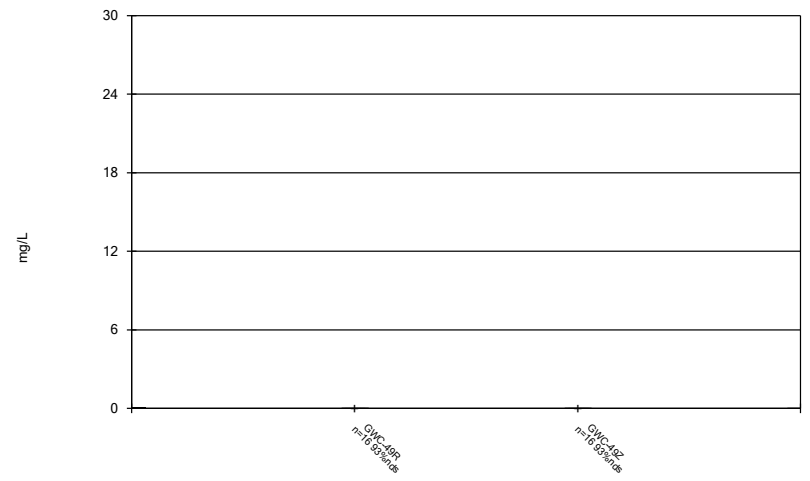
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Box & Whiskers Plot



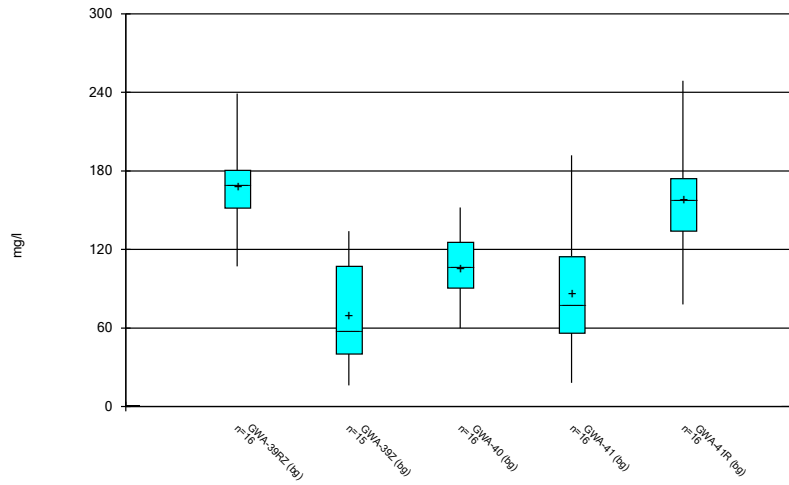
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Box & Whiskers Plot



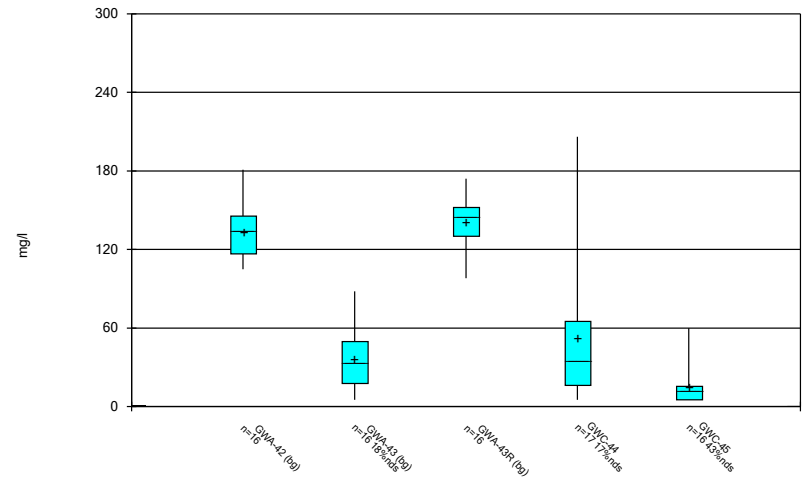
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Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



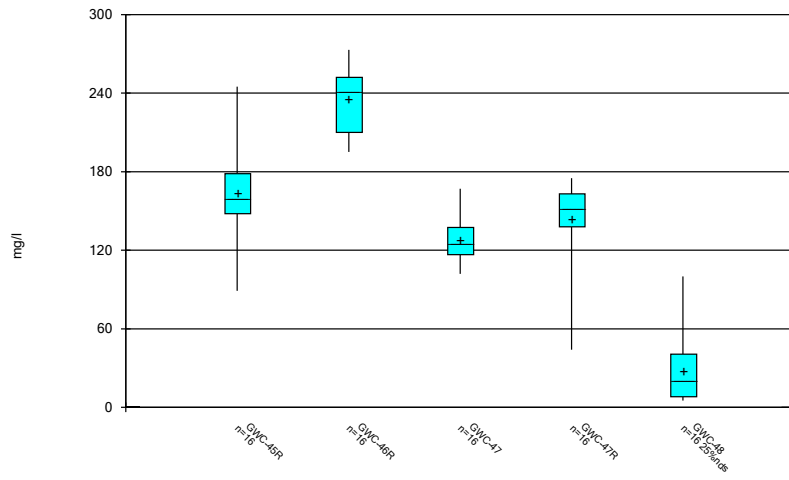
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



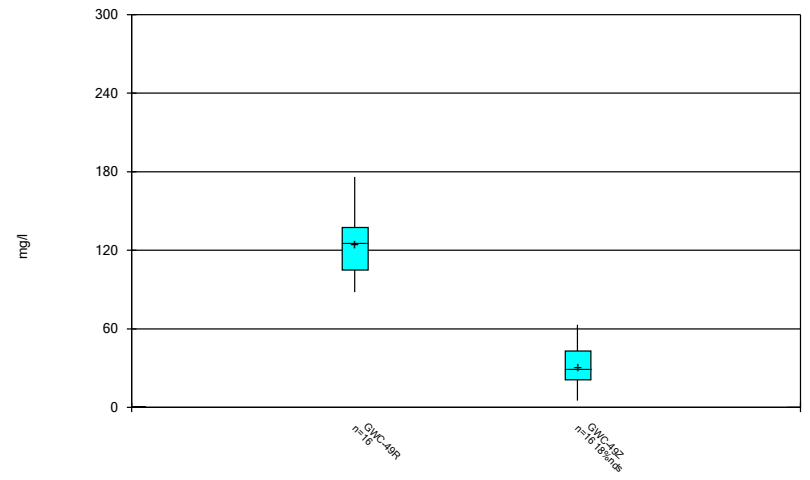
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Box & Whiskers Plot



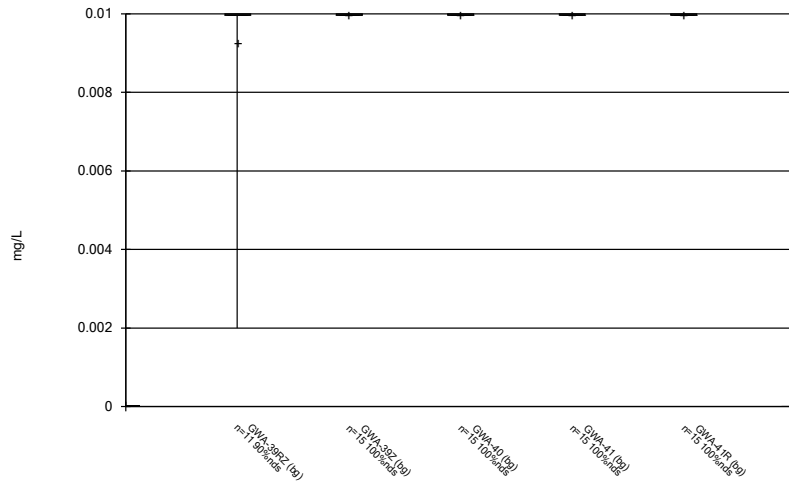
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



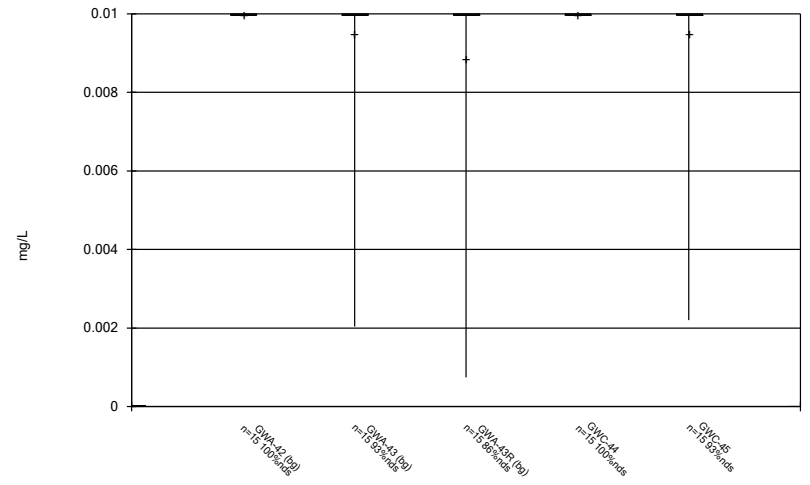
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



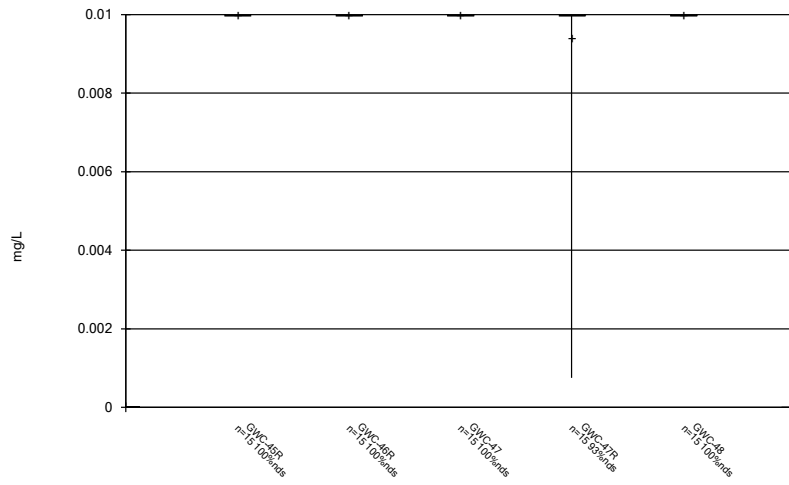
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



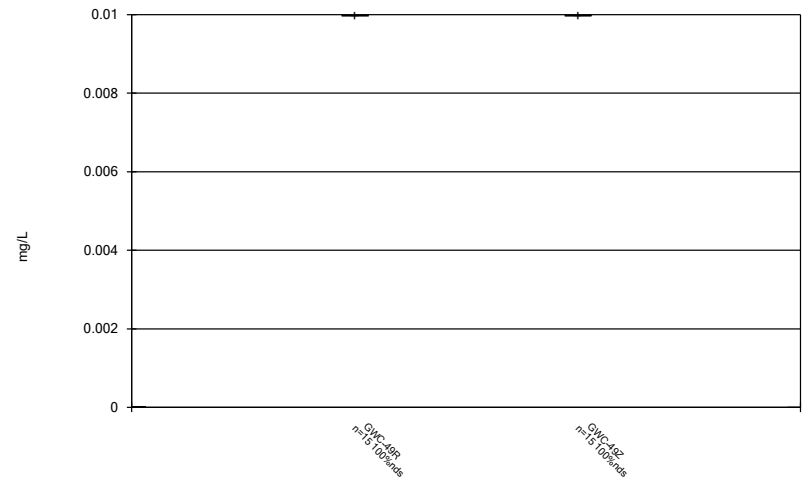
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



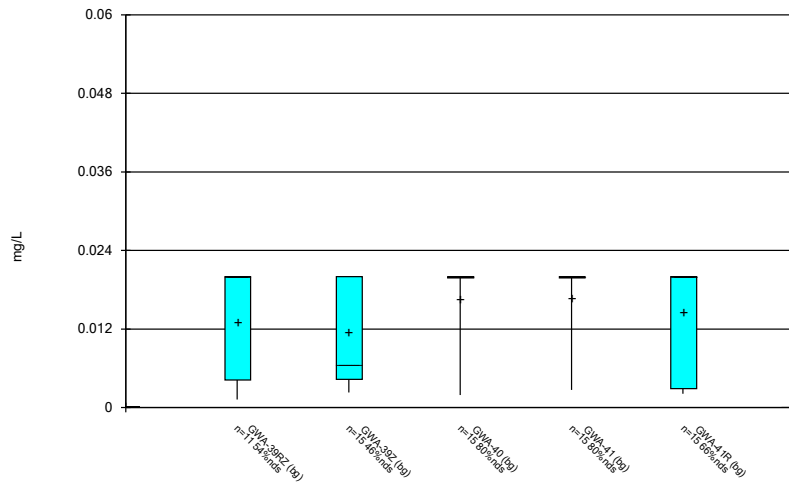
Constituent: Vanadium Analysis Run 4/29/2021 10:36 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



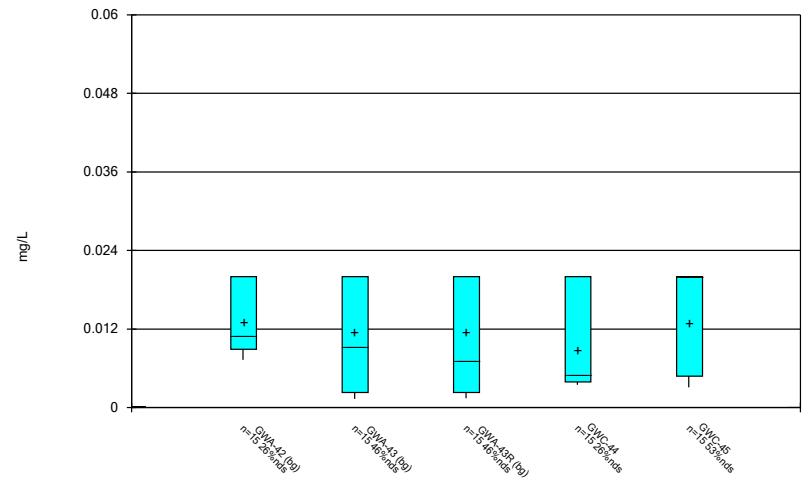
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 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



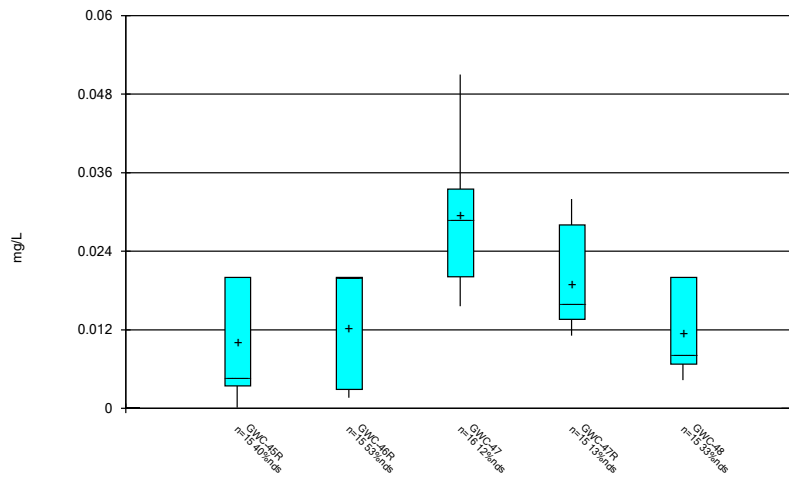
Constituent: Zinc Analysis Run 4/29/2021 10:36 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



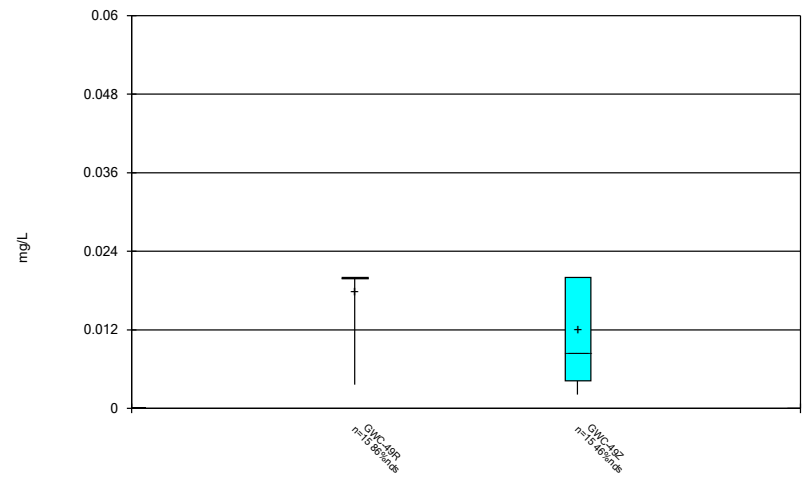
Constituent: Zinc Analysis Run 4/29/2021 10:36 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/29/2021 10:36 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/29/2021 10:36 AM
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE C.

Outlier Summary - Bedrock

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:44 AM

	GWC-47R Arsenic (mg/L)	GWC-47R Barium (mg/L)	GWC-45R Cadmium (mg/L)	GWC-47R Chromium (mg/L)
3/10/2016	0.0551 (o)	0.0344 (o)		
3/16/2016			0.0167 (o)	
5/18/2016				0.00606 (Jo)

FIGURE D.

Appendix I Bedrock Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-49R	0.01169	n/a	3/15/2021	0.012	Yes	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/11/2021	0.0059	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/11/2021	0.028	Yes	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param 1 of 3

Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39RZ	0.007699	n/a	3/16/2021	0.00041J	No	11	0.003012	0.002494	18.18	Kaplan-Meier	No	0.0008228	Param 1 of 3
Antimony (mg/L)	GWA-41R	0.0035	n/a	3/10/2021	0.00037J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWA-43R	0.003	n/a	3/11/2021	0.00074J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWC-45R	0.003517	n/a	3/11/2021	0.003ND	No	11	0.001604	0.001018	27.27	Kaplan-Meier	No	0.0008228	Param 1 of 3
Antimony (mg/L)	GWC-46R	0.003	n/a	3/11/2021	0.003ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Antimony (mg/L)	GWC-47R	0.001616	n/a	3/11/2021	0.00038J	No	11	0.03034	0.005246	45.45	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Antimony (mg/L)	GWC-49R	0.003	n/a	3/15/2021	0.0019J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.005ND	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Arsenic (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP (normality) 1 of 3
Arsenic (mg/L)	GWC-49R	0.005	n/a	3/15/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Barium (mg/L)	GWA-39RZ	0.01964	n/a	3/16/2021	0.014	No	11	0.01544	0.002236	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWA-41R	0.0447	n/a	3/10/2021	0.023	No	11	0.02243	0.01186	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWA-43R	0.008996	n/a	3/11/2021	0.0069	No	11	0.008105	0.0004743	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-45R	0.02411	n/a	3/11/2021	0.022	No	11	0.02006	0.002154	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-46R	0.02079	n/a	3/11/2021	0.012	No	11	0.01549	0.002822	0	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-47R	0.01808	n/a	3/11/2021	0.0073	No	10	0.01146	0.003404	10	None	No	0.0008228	Param 1 of 3
Barium (mg/L)	GWC-49R	0.01169	n/a	3/15/2021	0.012	Yes	11	9.9e-7	3.2e-7	9.091	None	x^3	0.0008228	Param 1 of 3
Beryllium (mg/L)	GWA-39RZ	0.0005	n/a	3/16/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWA-41R	0.0005	n/a	3/10/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWA-43R	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Beryllium (mg/L)	GWC-45R	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cadmium (mg/L)	GWA-39RZ	0.0005	n/a	3/16/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-39RZ	0.01	n/a	3/16/2021	0.0008J	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWA-43R	0.002735	n/a	3/11/2021	0.0011J	No	11	-6.826	0.492	45.45	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Chromium (mg/L)	GWC-46R	0.003994	n/a	3/11/2021	0.0059	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-47R	0.003043	n/a	3/11/2021	0.0019J	No	10	0.001916	0.0005792	0	None	No	0.0008228	Param 1 of 3
Chromium (mg/L)	GWC-49R	0.01	n/a	3/15/2021	0.00076J	No	11	n/a	n/a	54.55	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWA-39RZ	0.0057	n/a	3/16/2021	0.005ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Cobalt (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Copper (mg/L)	GWA-39RZ	0.0271	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	71.43	n/a	n/a	0.008668	NP (NDs) 1 of 3
Copper (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Copper (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	70	n/a	n/a	0.00344	NP (NDs) 1 of 3
Lead (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.0002J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.00012J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.00013J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWC-45R	0.005	n/a	3/11/2021	0.000045J	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Lead (mg/L)	GWC-47R	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWA-39RZ	0.0002	n/a	3/16/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWA-43R	0.0002	n/a	3/11/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWC-47R	0.0002	n/a	3/11/2021	0.0002ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP (NDs) 1 of 3
Mercury (mg/L)	GWC-49R	0.0002	n/a	3/15/2021	0.0002ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-39RZ	0.0224	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-41R	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWA-43R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-47R	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP (NDs) 1 of 3
Nickel (mg/L)	GWC-49R	0.005	n/a	3/15/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3

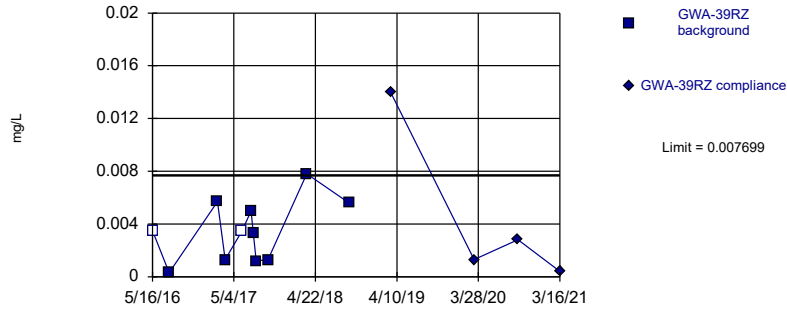
Appendix I Bedrock Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Silver (mg/L)	GWA-39RZ	0.005	n/a	3/16/2021	0.005ND	No	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP (NDs) 1 of 3
Thallium (mg/L)	GWA-39RZ	0.001	n/a	3/16/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWA-41R	0.001	n/a	3/10/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWC-46R	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	63.64	n/a	n/a	0.002806	NP (NDs) 1 of 3
Thallium (mg/L)	GWC-47R	0.0009583	n/a	3/11/2021	0.001ND	No	11	-7.867	0.4878	0	None	ln(x)	0.0008228	Param 1 of 3
Thallium (mg/L)	GWC-49R	0.001	n/a	3/15/2021	0.001ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP (NDs) 1 of 3
Vanadium (mg/L)	GWA-39RZ	0.01	n/a	3/16/2021	0.01ND	No	7	n/a	n/a	85.71	n/a	n/a	0.008668	NP (NDs) 1 of 3
Vanadium (mg/L)	GWA-43R	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP (NDs) 1 of 3
Vanadium (mg/L)	GWC-47R	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-39RZ	0.02	n/a	3/16/2021	0.02ND	No	7	n/a	n/a	57.14	n/a	n/a	0.008668	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-41R	0.02	n/a	3/10/2021	0.02ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP (NDs) 1 of 3
Zinc (mg/L)	GWA-43R	0.0106	n/a	3/11/2021	0.02ND	No	10	0.06528	0.01935	50	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-45R	0.007759	n/a	3/11/2021	0.02ND	No	10	0.0511	0.01901	40	Kaplan-Meier	sqrt(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-46R	0.006955	n/a	3/11/2021	0.02ND	No	10	-5.789	0.4217	50	Kaplan-Meier	ln(x)	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-47R	0.01788	n/a	3/11/2021	0.028	Yes	10	0.0133	0.002353	20	Kaplan-Meier	No	0.0008228	Param 1 of 3
Zinc (mg/L)	GWC-49R	0.02	n/a	3/15/2021	0.02ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP (NDs) 1 of 3

Within Limit

Prediction Limit
Intrawell Parametric

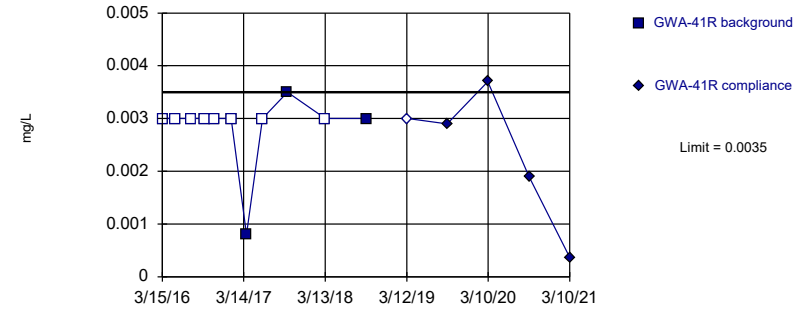


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003012, Std. Dev.=0.002494, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Antimony Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

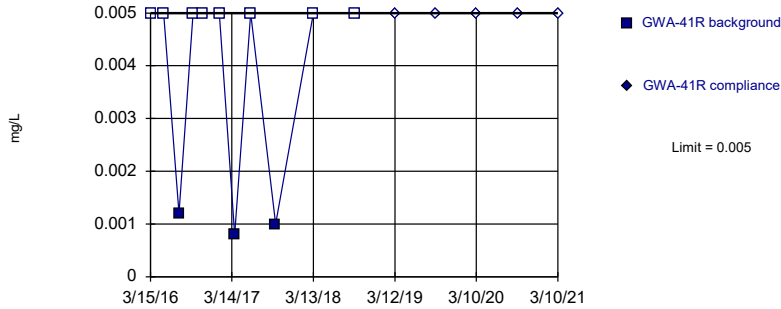
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

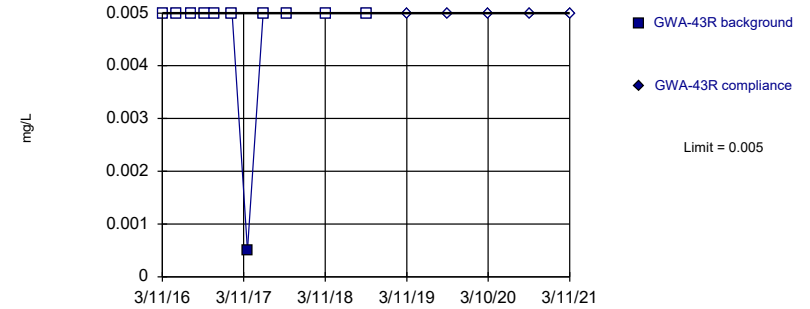


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

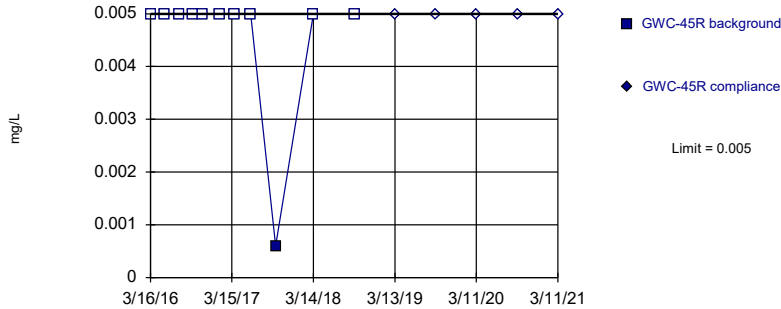


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

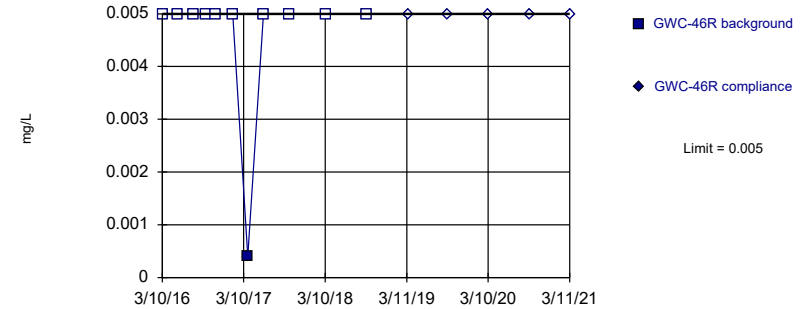


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

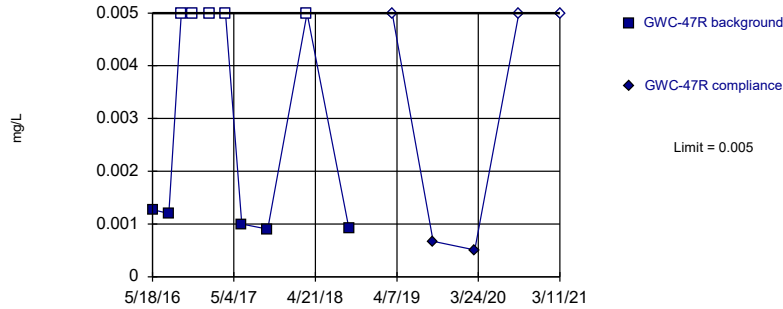


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

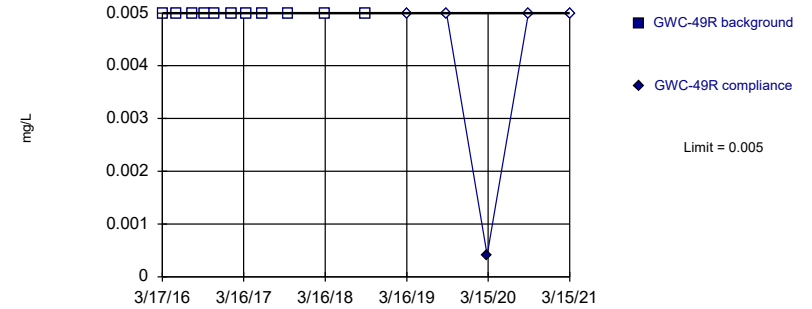


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

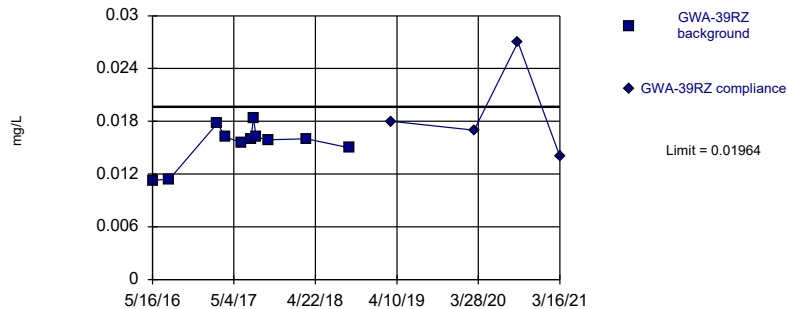


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

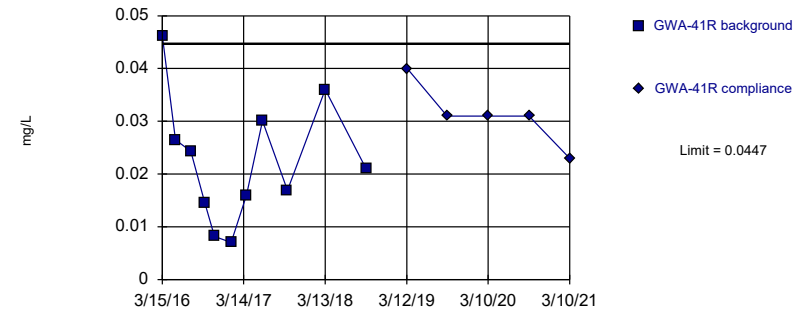


Background Data Summary: Mean=0.01544, Std. Dev.=0.002236, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8351, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

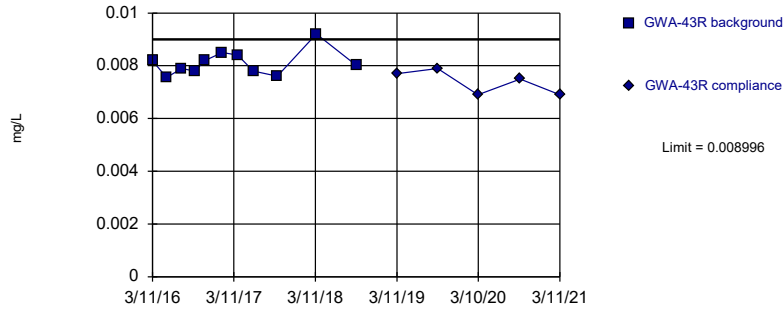


Background Data Summary: Mean=0.02243, Std. Dev.=0.01186, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9589, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Parametric

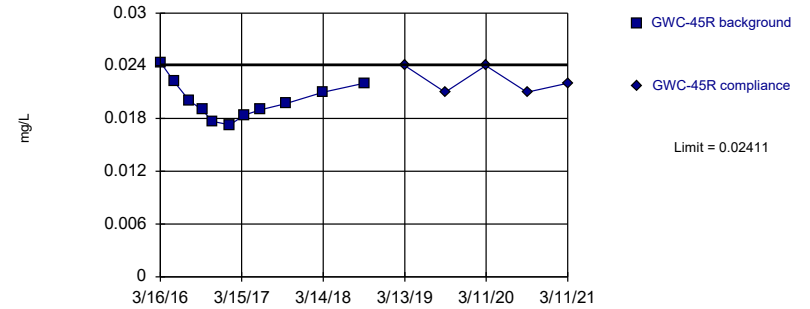


Background Data Summary: Mean=0.008105, Std. Dev.=0.0004743, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9088, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Parametric

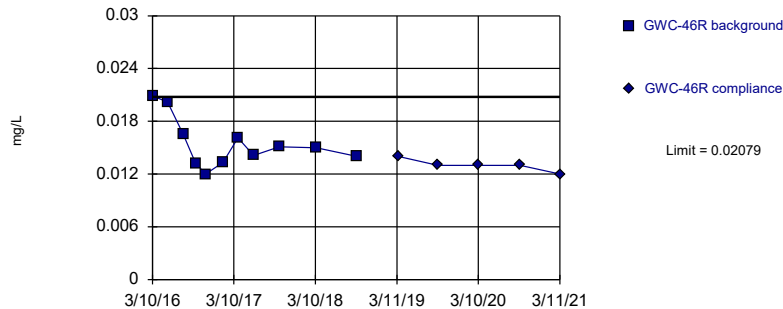


Background Data Summary: Mean=0.02006, Std. Dev.=0.002154, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Parametric



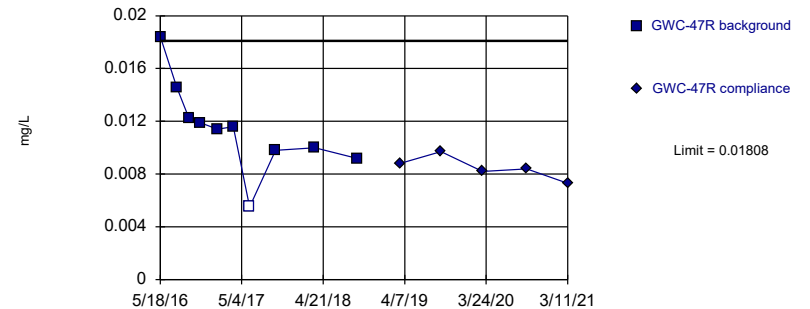
Background Data Summary: Mean=0.01549, Std. Dev.=0.002822, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8859, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Parametric

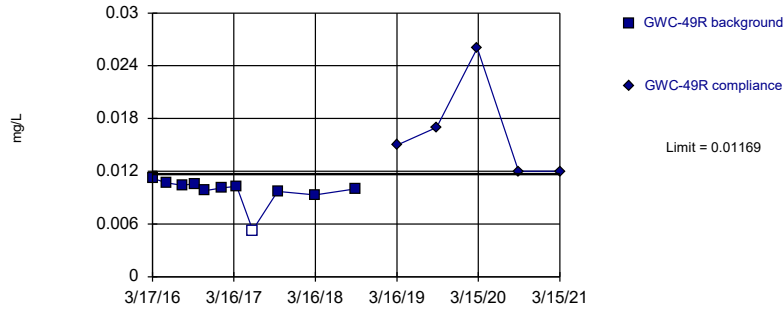


Background Data Summary: Mean=0.01146, Std. Dev.=0.003404, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9463, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

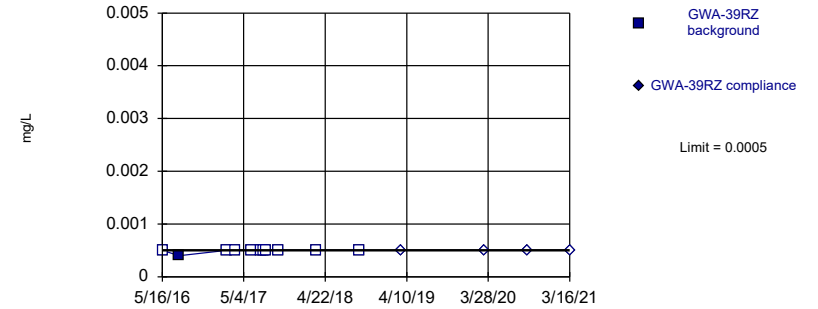


Background Data Summary (based on cube transformation): Mean=9.9e-7, Std. Dev.=3.2e-7, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8401, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Barium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

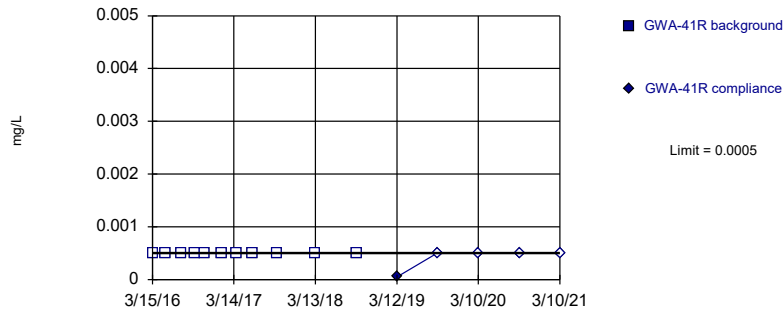


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

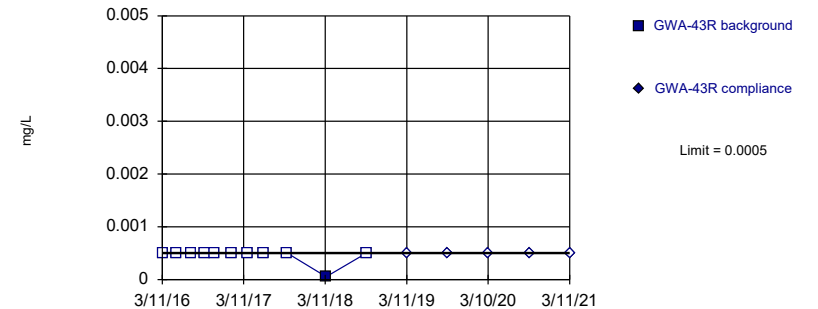


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

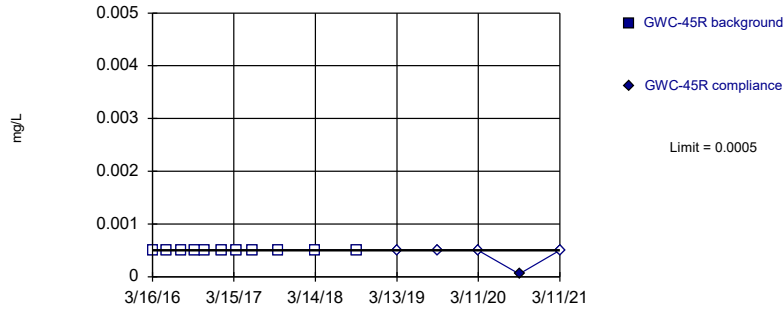


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

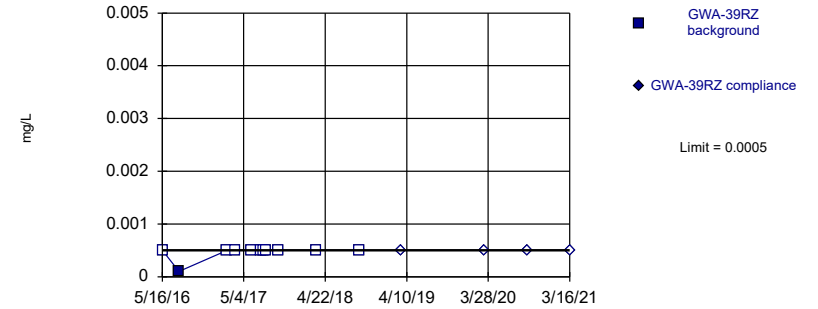


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

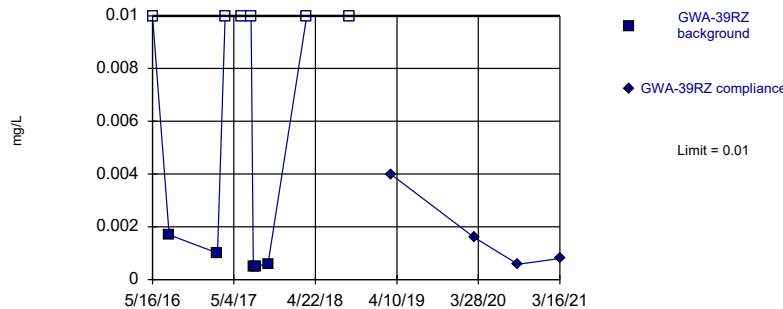


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

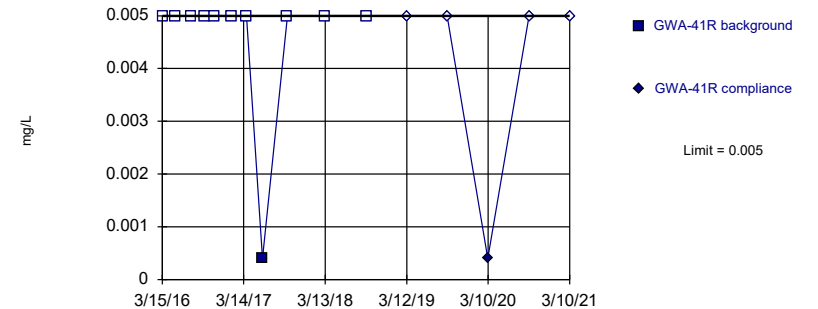


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

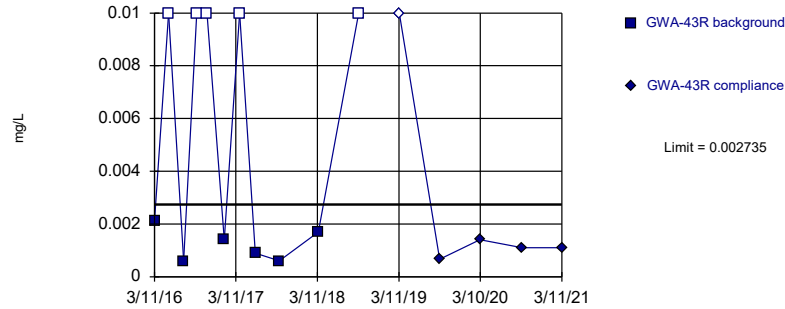


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

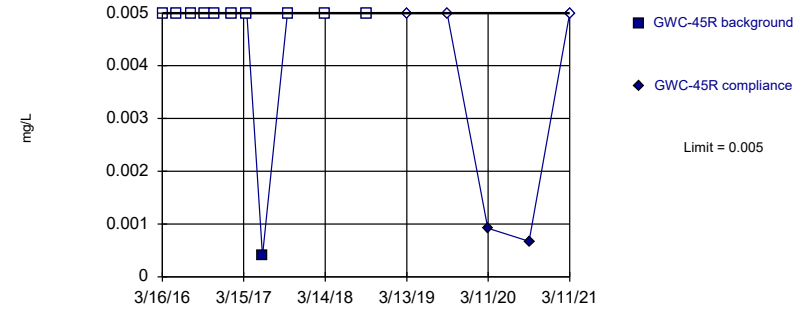


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.826, Std. Dev.=0.492, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8019, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

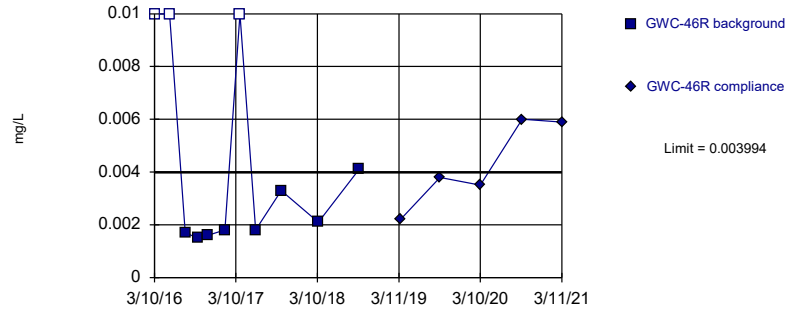


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

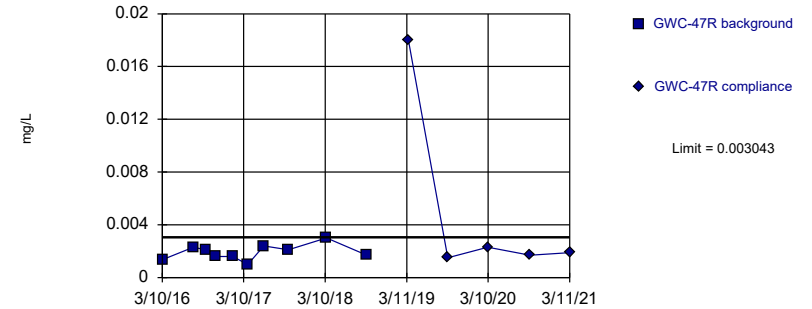


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.182, Std. Dev.=0.3505, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7957, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

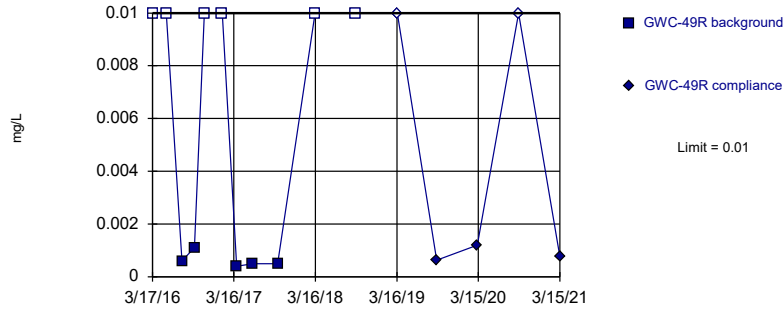


Background Data Summary: Mean=0.001916, Std. Dev.=0.0005792, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9766, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

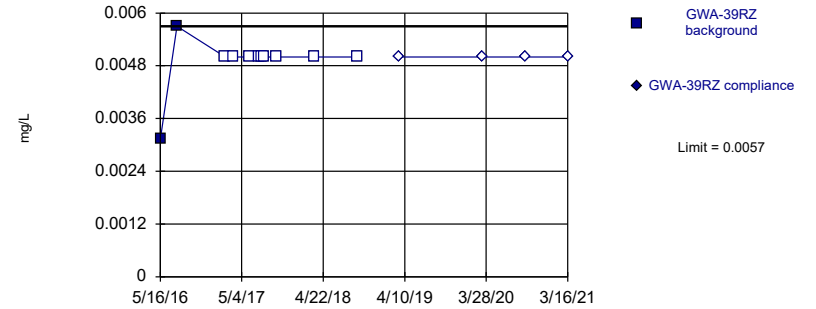


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

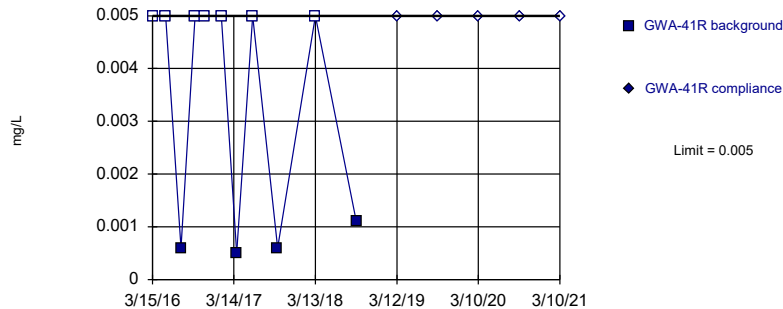


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

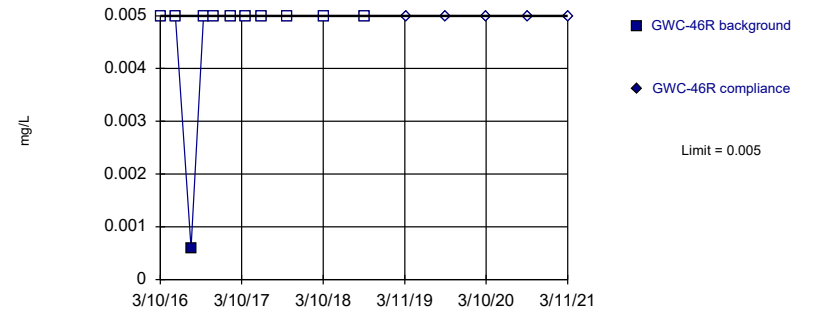


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

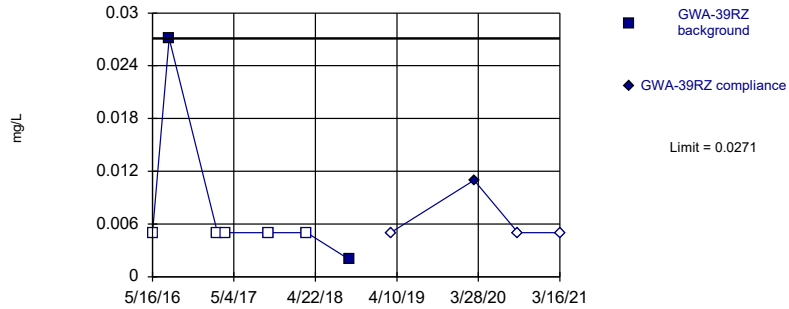


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

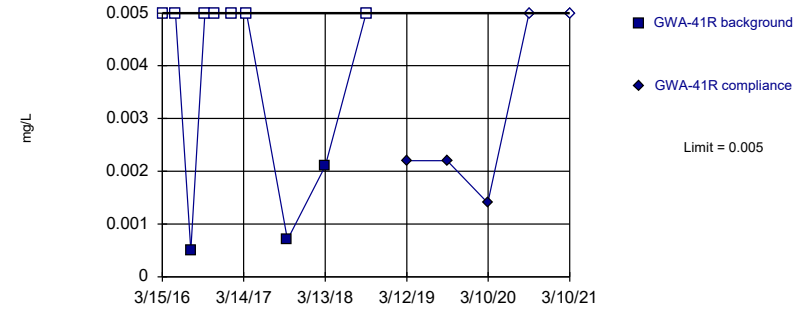


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

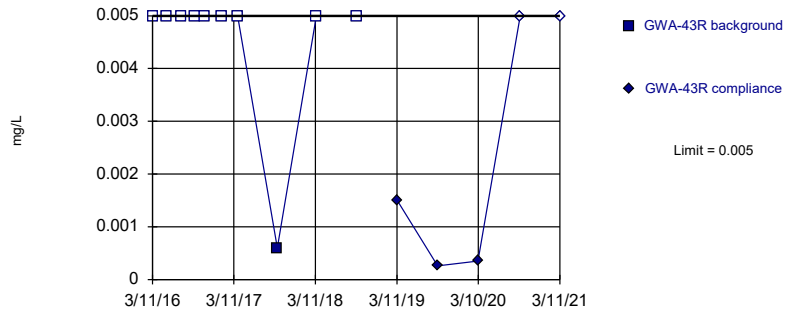


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

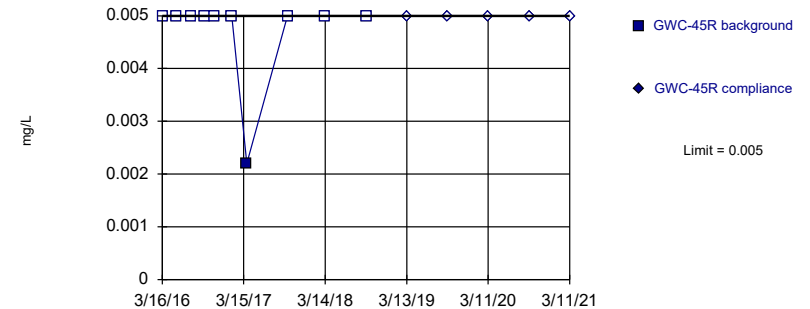


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

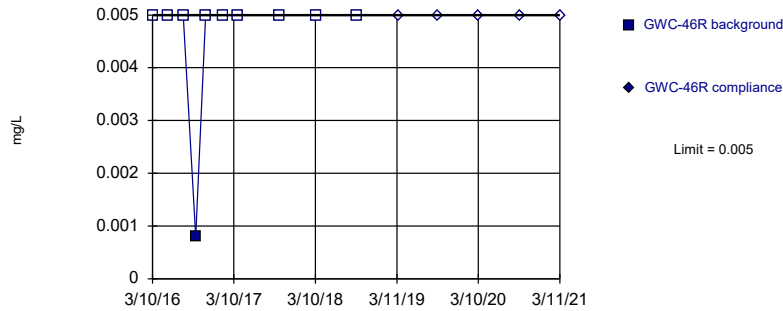


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

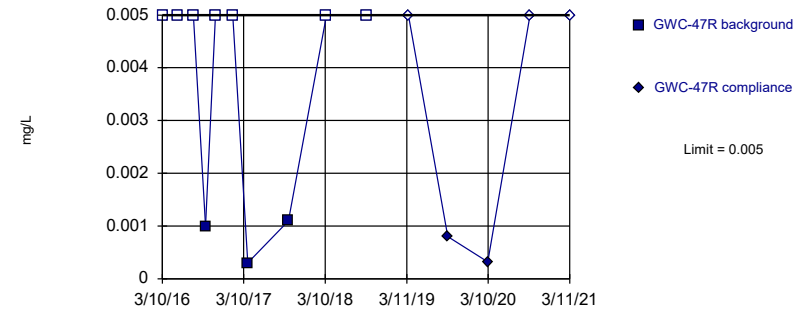


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

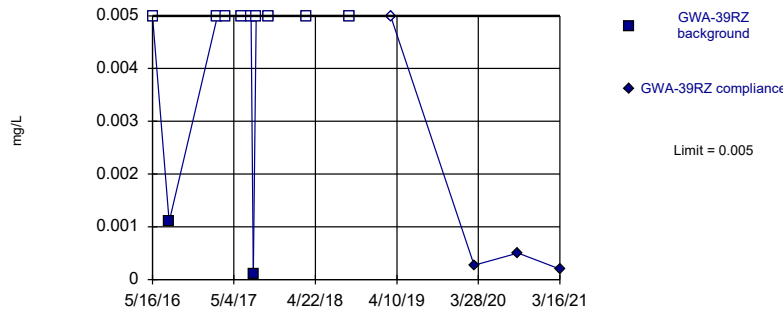


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

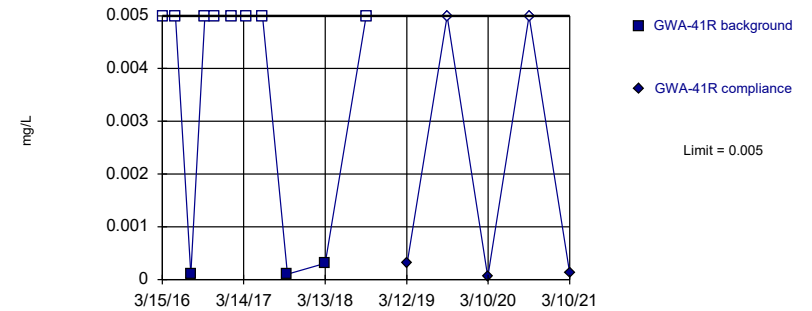


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

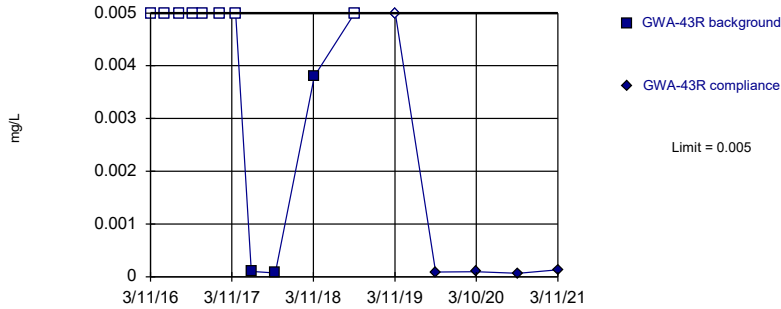


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

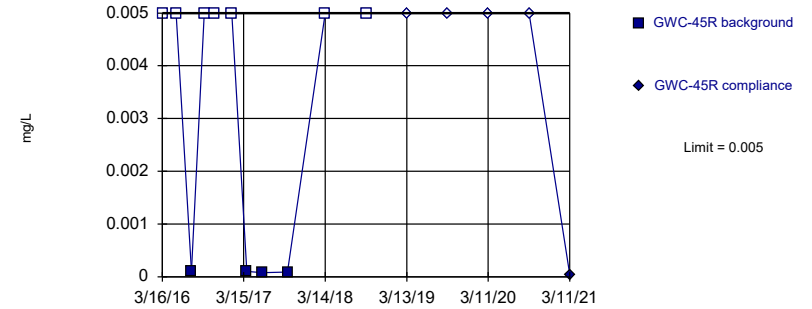


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

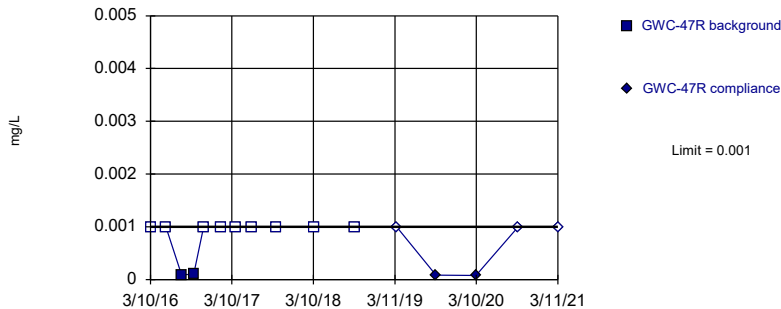


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

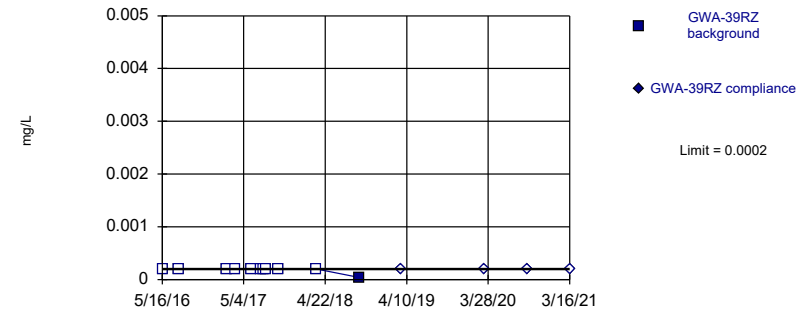


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

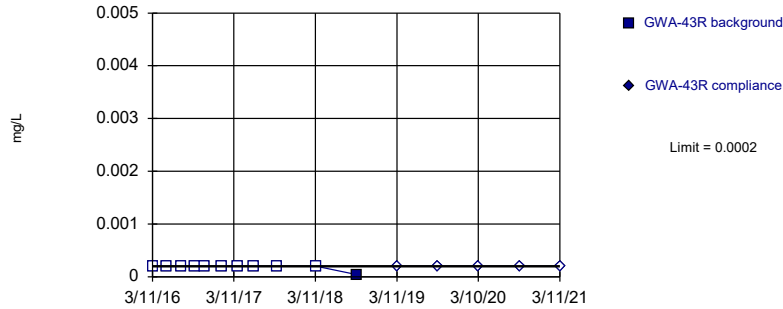


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

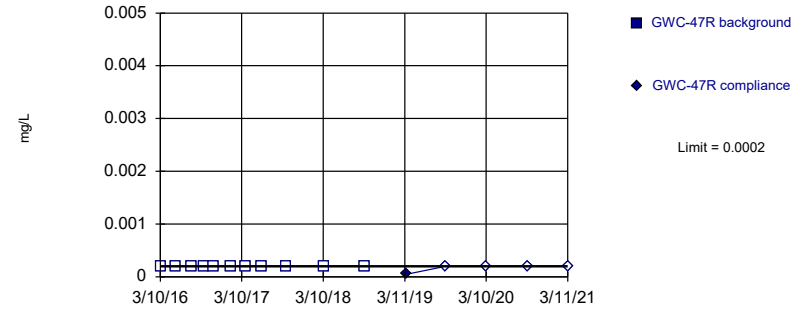


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

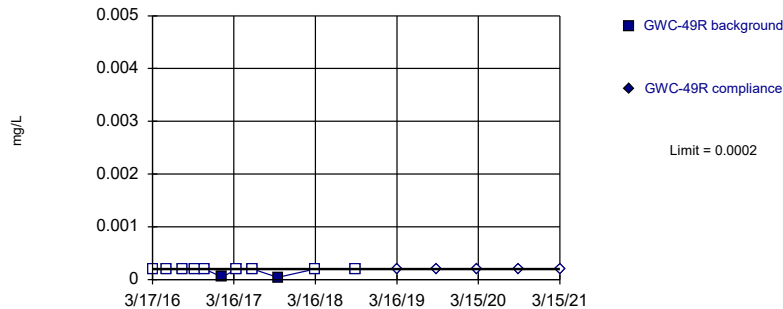


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

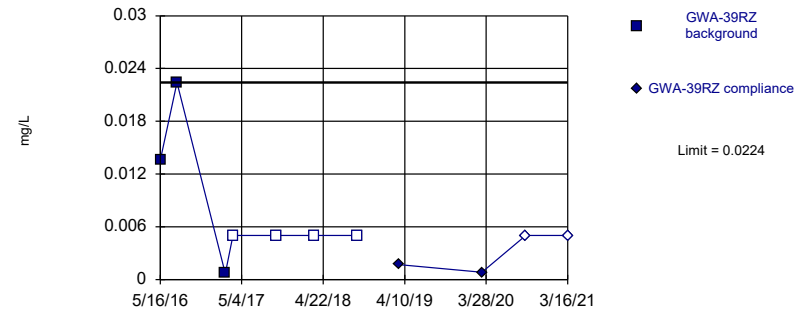


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

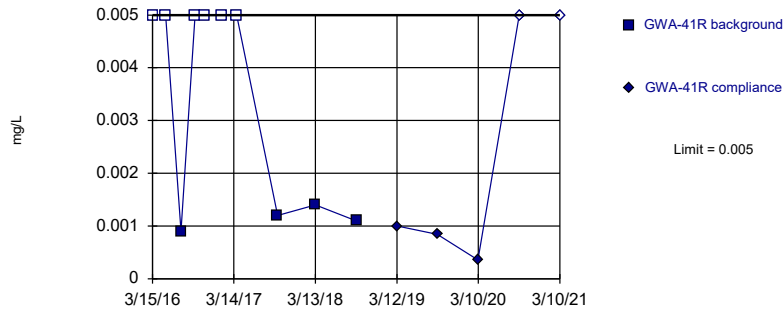


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

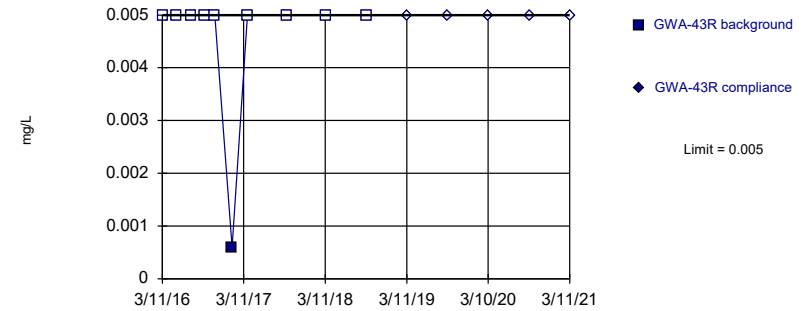


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

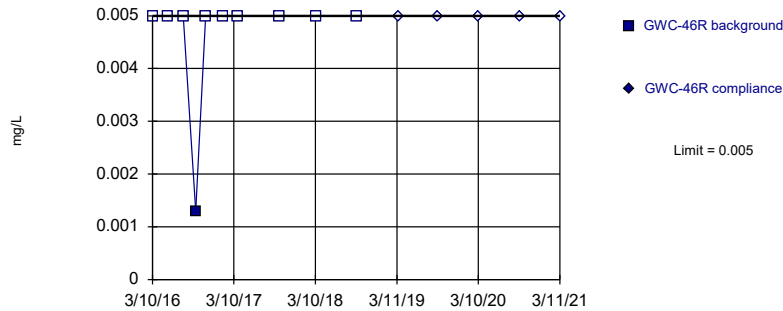


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

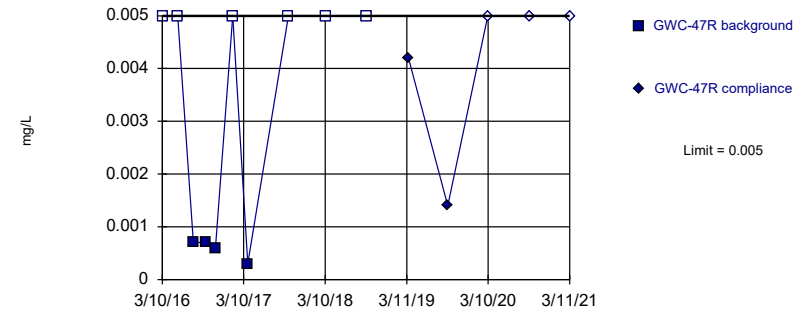


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:55 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

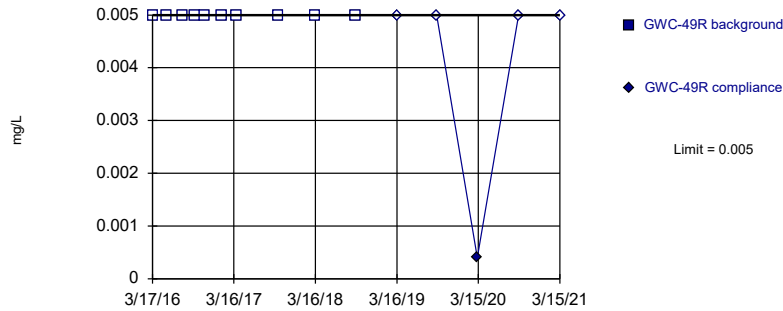


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

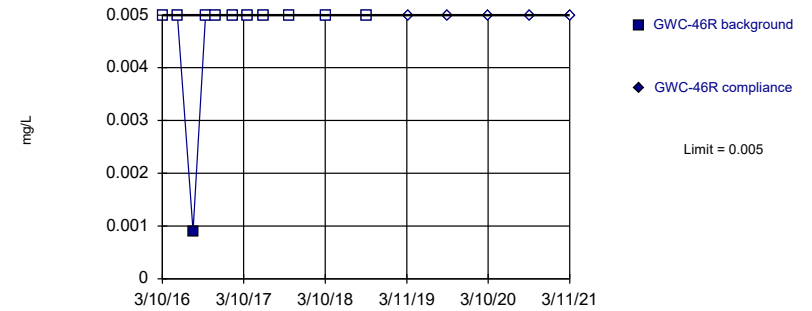


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

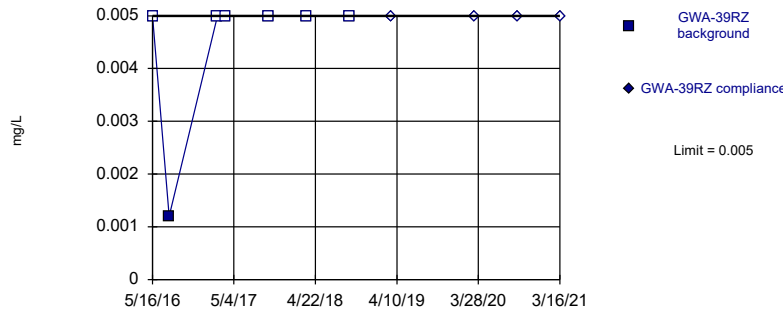


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

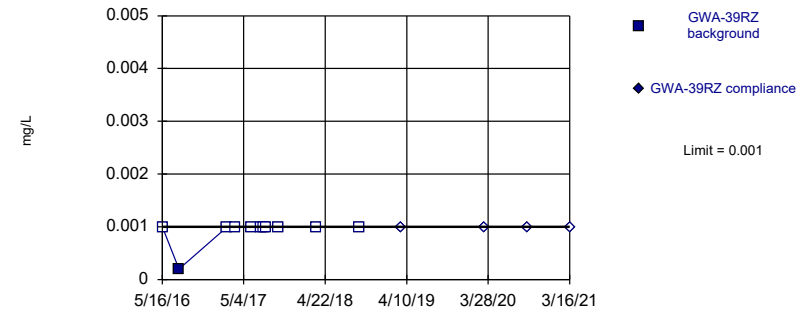


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Silver Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

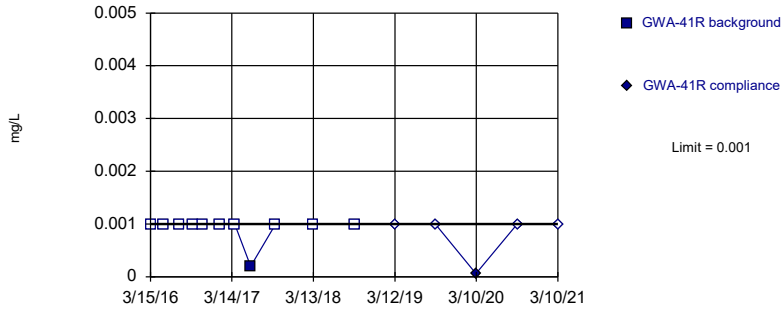


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

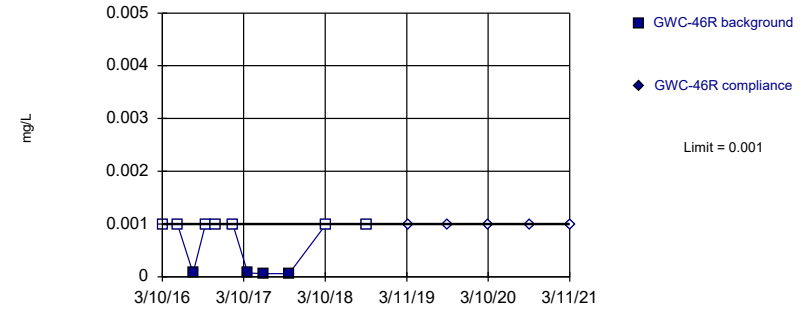


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

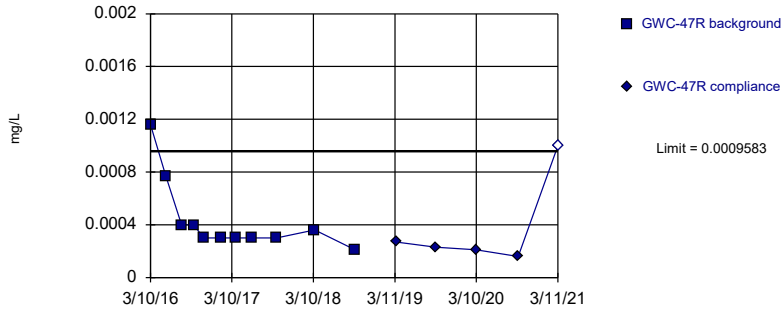


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

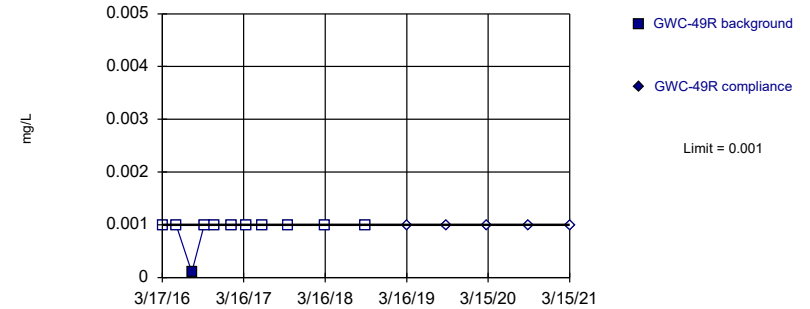


Background Data Summary (based on natural log transformation): Mean=-7.867, Std. Dev.=0.4878, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8094, critical = 0.792. Kappa = 1.879 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Thallium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

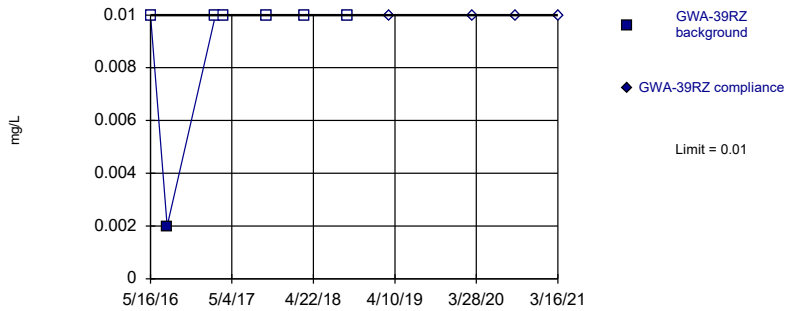


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

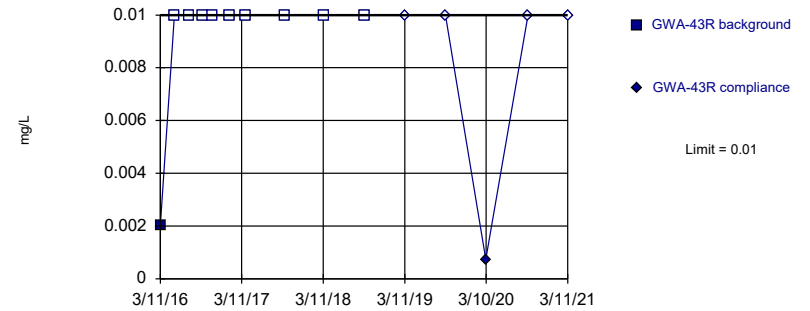


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Vanadium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

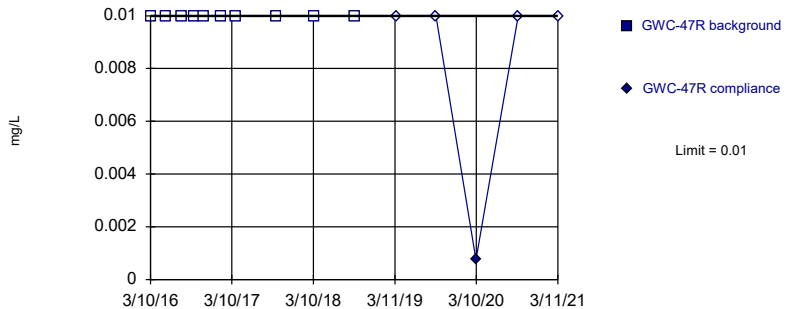


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

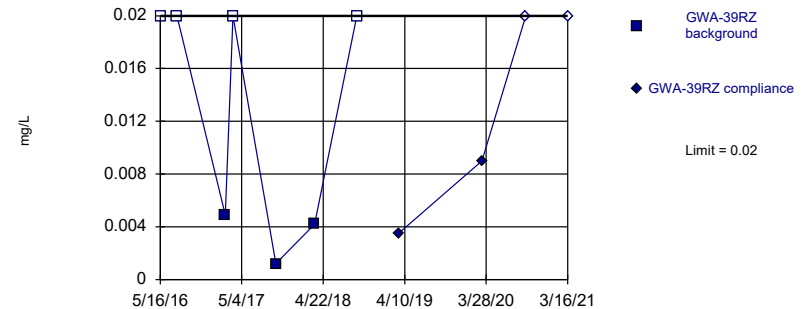


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

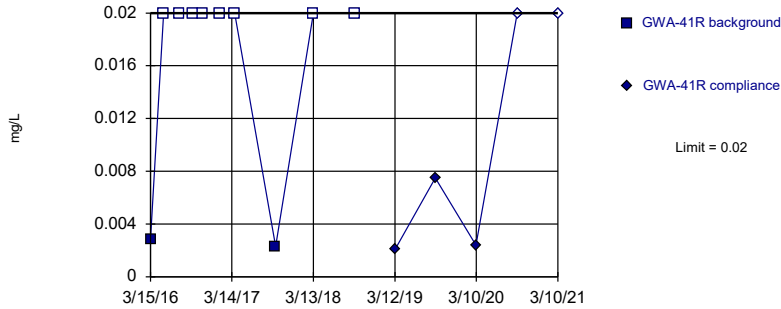


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.01726. Individual comparison alpha = 0.008668 (1 of 3).

Constituent: Zinc Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

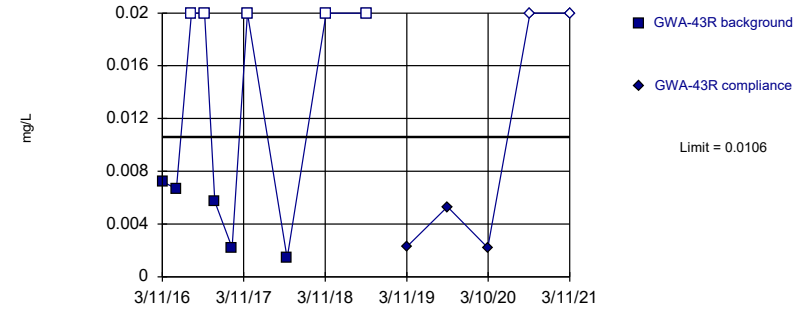


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

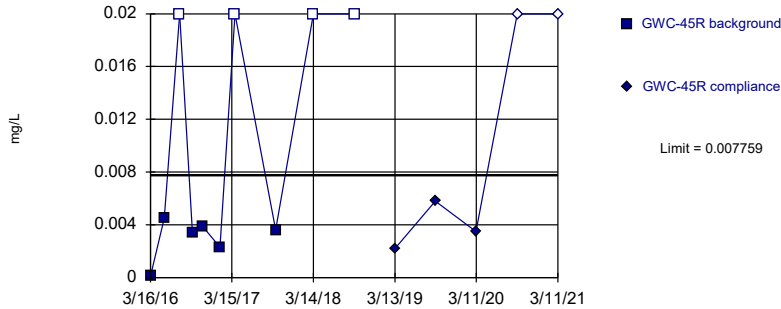


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06528, Std. Dev.=0.01935, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8008, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

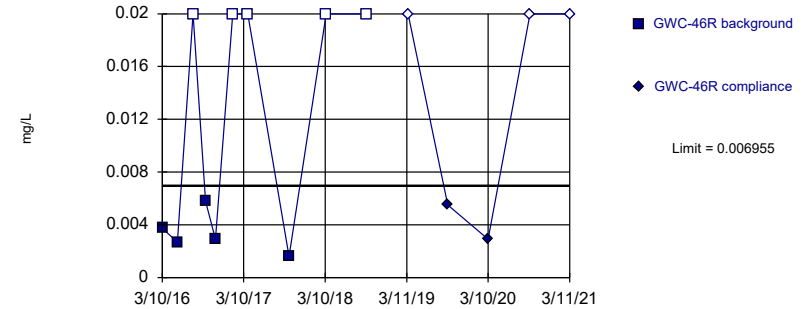


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0511, Std. Dev.=0.01901, n=10, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8228, critical = 0.781. Kappa = 1.946 (c=16, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0008228.

Constituent: Zinc Analysis Run 4/29/2021 11:56 AM View: Bedrock - Appendix I
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=-5.789, Std. Dev.=0.4217, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7968, 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 4/29/2021 11:56 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/16/2020		0.0028 (J)
3/16/2021		0.00041 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/10/2020		0.0019 (J)
3/10/2021		0.00037 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		<0.003
3/11/2021		0.00074 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		0.00043 (J)
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		<0.003
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		0.00053 (J)
3/11/2021		0.00038 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/11/2020		0.0011 (J)
3/15/2021		0.0019 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/16/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/10/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/11/2020		<0.005
3/15/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/16/2020		0.027
3/16/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/10/2020		0.031
3/10/2021		0.023

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		0.0075 (J)
3/11/2021		0.0069

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		0.021
3/11/2021		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		0.013
3/11/2021		0.012

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		0.0084 (J)
3/11/2021		0.0073

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		0.012
3/15/2021		0.012

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0005 (D)	
7/27/2016	0.0004 (JD)	
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	<0.0005	
3/14/2019		<0.0005
3/9/2020		<0.0005
9/16/2020		<0.0005
3/16/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	<0.0005	
5/13/2016	<0.0005	
7/21/2016	<0.0005	
9/21/2016	<0.0005	
11/3/2016	<0.0005	
1/17/2017	<0.0005	
3/27/2017	<0.0005	
6/6/2017	<0.0005	
9/25/2017	<0.0005	
3/14/2018	<0.0005	
9/12/2018	<0.0005	
3/14/2019		5.2E-05 (J)
9/10/2019		<0.0005
3/9/2020		<0.0005
9/10/2020		<0.0005
3/10/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	5.1E-05 (J)	
9/12/2018	<0.0005	
3/13/2019		<0.0005
9/11/2019		<0.0005
3/9/2020		<0.0005
9/14/2020		<0.0005
3/11/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45R	GWC-45R
3/16/2016	<0.0005	
5/16/2016	<0.0005	
7/25/2016	<0.0005	
9/19/2016	<0.0005	
11/3/2016	<0.0005	
1/20/2017	<0.0005	
3/29/2017	<0.0005	
6/7/2017	<0.0005	
9/27/2017	<0.0005	
3/15/2018	<0.0005	
9/13/2018	<0.0005	
3/14/2019		<0.0005
9/11/2019		<0.0005
3/10/2020		<0.0005
9/11/2020		5.6E-05 (J)
3/11/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0005 (D)	
7/27/2016	0.0001 (JD)	
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	<0.0005	
3/14/2019		<0.0005
3/9/2020		<0.0005
9/16/2020		<0.0005
3/16/2021		<0.0005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/16/2020		0.00058 (J)
3/16/2021		0.0008 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.005	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<0.005	
6/6/2017	0.0004 (J)	
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
3/9/2020		0.0004 (J)
9/10/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		0.0011 (J)
3/11/2021		0.0011 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0004 (J)	
9/27/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		0.00092 (J)
9/11/2020		0.00067 (J)
3/11/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		0.006 (J)
3/11/2021		0.0059

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		0.0017 (J)
3/11/2021		0.0019 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/11/2020		<0.01
3/15/2021		0.00076 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/16/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/10/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.005 (D)	
7/27/2016	0.0271 (D)	
2/21/2017	<0.005	
3/27/2017	<0.005 (D)	
9/29/2017	<0.005 (D)	
3/16/2018	<0.005	
9/14/2018	0.002 (J)	
3/14/2019		<0.005
3/9/2020		0.011 (J)
9/16/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0005 (J)	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<0.005	
9/25/2017	0.0007 (J)	
3/14/2018	0.0021 (J)	
9/12/2018	<0.005	
3/14/2019		0.0022 (J)
9/10/2019		0.0022 (J)
3/9/2020		0.0014 (J)
9/10/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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 (*)	
9/22/2017	0.0006 (J)	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		0.0015 (J)
9/11/2019		0.00026 (J)
3/9/2020		0.00035 (J)
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0022 (J)	
9/27/2017	<0.005	
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
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0008 (J)	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/28/2017	<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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.005	
9/20/2016	0.001 (J)	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/29/2017	0.0003 (J)	
9/27/2017	0.0011 (J)	
3/16/2018	<0.005	
9/13/2018	<0.005	
3/19/2019		<0.005
9/11/2019		0.0008 (J)
3/9/2020		0.00032 (J)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/16/2020		0.0005 (J)
3/16/2021		0.0002 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/10/2020		<0.005
3/10/2021		0.00012 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		6.6E-05 (J)
3/11/2021		0.00013 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		<0.005
3/11/2021		4.5E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.001	
5/18/2016	<0.001	
7/27/2016	9E-05 (J)	
9/20/2016	0.0001 (J)	
11/4/2016	<0.001	
1/20/2017	<0.001	
3/29/2017	<0.001	
6/8/2017	<0.001	
9/27/2017	<0.001	
3/16/2018	<0.001	
9/13/2018	<0.001	
3/19/2019		<0.001
9/11/2019		8.5E-05 (J)
3/9/2020		8E-05 (J)
9/15/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.0002 (D)	
7/27/2016	<0.0002 (D)	
2/21/2017	<0.0002	
3/27/2017	<0.0002 (D)	
6/8/2017	<0.0002 (D)	
7/17/2017	<0.0002 (D)	
7/27/2017	<0.0002	
8/9/2017	<0.0002	
9/29/2017	<0.0002 (D)	
3/16/2018	<0.0002	
9/14/2018	4.1E-05 (J)	
3/14/2019		<0.0002
3/9/2020		<0.0002
9/16/2020		<0.0002
3/16/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R	GWA-43R
3/11/2016	<0.0002	
5/13/2016	<0.0002	
7/19/2016	<0.0002	
9/16/2016	<0.0002	
11/2/2016	<0.0002	
1/18/2017	<0.0002	
3/28/2017	<0.0002	
6/6/2017	<0.0002	
9/22/2017	<0.0002	
3/15/2018	<0.0002	
9/12/2018	3.9E-05 (J)	
3/13/2019		<0.0002
9/11/2019		<0.0002
3/9/2020		<0.0002
9/14/2020		<0.0002
3/11/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47R
3/10/2016	<0.0002	
5/18/2016	<0.0002	
7/27/2016	<0.0002	
9/20/2016	<0.0002	
11/4/2016	<0.0002	
1/20/2017	<0.0002	
3/29/2017	<0.0002 (*)	
6/8/2017	<0.0002	
9/27/2017	<0.0002	
3/16/2018	<0.0002	
9/13/2018	<0.0002	
3/19/2019		5E-05 (J)
9/11/2019		<0.0002
3/9/2020		<0.0002
9/15/2020		<0.0002
3/11/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.0002	
5/18/2016	<0.0002	
7/27/2016	<0.0002	
9/21/2016	<0.0002	
11/4/2016	<0.0002	
1/24/2017	5E-05 (J)	
3/29/2017	<0.0002 (*)	
6/8/2017	<0.0002	
9/29/2017	4E-05 (J)	
3/15/2018	<0.0002	
9/13/2018	<0.0002	
3/18/2019		<0.0002
9/11/2019		<0.0002
3/11/2020		<0.0002
9/11/2020		<0.0002
3/15/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.005 (D)	
9/29/2017	<0.005 (D)	
3/16/2018	<0.005	
9/14/2018	<0.005	
3/14/2019		0.0017 (J)
3/9/2020		0.00083 (J)
9/16/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0009 (J)	
9/21/2016	<0.005	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<0.005 (*)	
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)
9/10/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0006 (J)	
3/28/2017	<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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0013 (J)	
11/4/2016	<0.005	
1/20/2017	<0.005	
3/28/2017	<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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0007 (J)	
9/20/2016	0.0007 (J)	
11/4/2016	0.0006 (J)	
1/20/2017	<0.005	
3/29/2017	0.0003 (J)	
9/27/2017	<0.005	
3/16/2018	<0.005	
9/13/2018	<0.005	
3/19/2019		0.0042 (J)
9/11/2019		0.0014 (J)
3/9/2020		<0.005
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	
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		0.0004 (J)
9/11/2020		<0.005
3/15/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	0.0009 (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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.005 (D)	
7/27/2016	0.0012 (JD)	
2/21/2017	<0.005	
3/27/2017	<0.005 (D)	
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
9/16/2020		<0.005
3/16/2021		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/16/2020		<0.001
3/16/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/10/2020		<0.001
3/10/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/14/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		0.00016 (J)
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/11/2020		<0.001
3/15/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/16/2020		<0.01
3/16/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/14/2020		<0.01
3/11/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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)
9/15/2020		<0.01
3/11/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ	GWA-39RZ
5/16/2016	<0.02 (D)	
7/27/2016	<0.02 (*)	
2/21/2017	0.0049 (J)	
3/27/2017	<0.02 (*)	
9/29/2017	0.0012 (JD)	
3/16/2018	0.0042 (J)	
9/14/2018	<0.02	
3/14/2019		0.0035 (J)
3/9/2020		0.009 (J)
9/16/2020		<0.02
3/16/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R	GWA-41R
3/15/2016	0.00286 (J)	
5/13/2016	<0.02	
7/21/2016	<0.02 (*)	
9/21/2016	<0.02	
11/3/2016	<0.02	
1/17/2017	<0.02	
3/27/2017	<0.02 (*)	
9/25/2017	0.0023 (J)	
3/14/2018	<0.02	
9/12/2018	<0.02	
3/14/2019		0.0021 (J)
9/10/2019		0.0075 (J)
3/9/2020		0.0024 (J)
9/10/2020		<0.02
3/10/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.02 (*)	
9/16/2016	<0.02	
11/2/2016	0.0057 (J)	
1/18/2017	0.0022 (J)	
3/28/2017	<0.02	
9/22/2017	0.0014 (J)	
3/15/2018	<0.02	
9/12/2018	<0.02	
3/13/2019		0.0023 (J)
9/11/2019		0.0053 (J)
3/9/2020		0.0022 (J)
9/14/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.02 (*)	
9/19/2016	0.0034 (J)	
11/3/2016	0.0039 (J)	
1/20/2017	0.0023 (J)	
3/29/2017	<0.02 (*)	
9/27/2017	0.0036 (J)	
3/15/2018	<0.02	
9/13/2018	<0.02	
3/14/2019		0.0022 (J)
9/11/2019		0.0058 (J)
3/10/2020		0.0035 (J)
9/11/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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	<0.02 (*)	
9/20/2016	0.0058 (J)	
11/4/2016	0.0029 (J)	
1/20/2017	<0.02	
3/28/2017	<0.02 (*)	
9/29/2017	0.0016 (J)	
3/15/2018	<0.02	
9/13/2018	<0.02	
3/18/2019		<0.02
9/11/2019		0.0055 (J)
3/10/2020		0.0029 (J)
9/14/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
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
9/15/2020		0.028
3/11/2021		0.028

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:59 AM View: Bedrock - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49R	GWC-49R
3/17/2016	<0.02	
5/18/2016	<0.02	
7/27/2016	<0.02 (*)	
9/21/2016	<0.02	
11/4/2016	<0.02	
1/24/2017	<0.02	
3/29/2017	<0.02 (*)	
9/29/2017	<0.02	
3/15/2018	<0.02	
9/13/2018	<0.02	
3/18/2019		<0.02
9/11/2019		0.005 (J)
3/11/2020		0.0036 (J)
9/11/2020		<0.02
3/15/2021		<0.02

FIGURE E.

Appendix I Bedrock Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.0059	Yes	47	n/a	n/a	55.32	n/a	n/a	0.00005401	NP (NDs) 1 of 3
Zinc (mg/L)	GWC-47R	0.02	n/a	3/11/2021	0.028	Yes	41	n/a	n/a	56.1	n/a	n/a	0.00007687	NP (NDs) 1 of 3

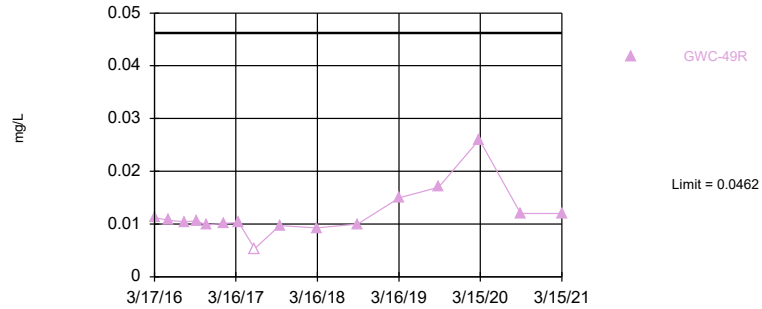
Appendix I Bedrock Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-49R	0.0462	n/a	3/15/2021	0.012	No	47	n/a	n/a	0	n/a	n/a	0.00005401	NP (normality) 1 of 3
Chromium (mg/L)	GWC-46R	0.005	n/a	3/11/2021	0.0059	Yes	47	n/a	n/a	55.32	n/a	n/a	0.00005401	NP (NDs) 1 of 3
Zinc (mg/L)	GWC-47R	0.02	n/a	3/11/2021	0.028	Yes	41	n/a	n/a	56.1	n/a	n/a	0.00007687	NP (NDs) 1 of 3

Within Limit

Prediction Limit
Interwell Non-parametric

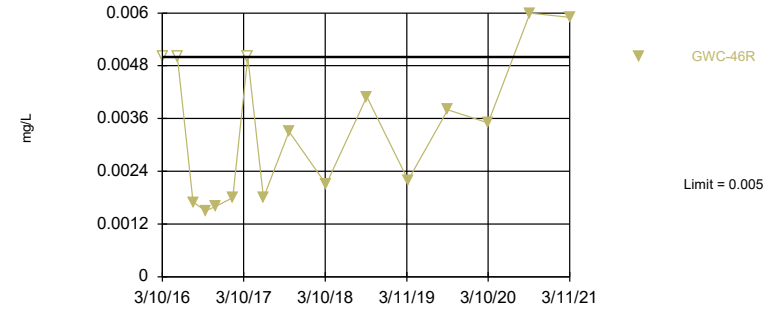


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. Annual per-constituent alpha = 0.000432. Individual comparison alpha = 0.00005401 (1 of 3). Assumes 3 future values.

Constituent: Barium Analysis Run 4/29/2021 2:13 PM View: Bedrock - Appendix I Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit: GWC-46R

Prediction Limit
Interwell Non-parametric

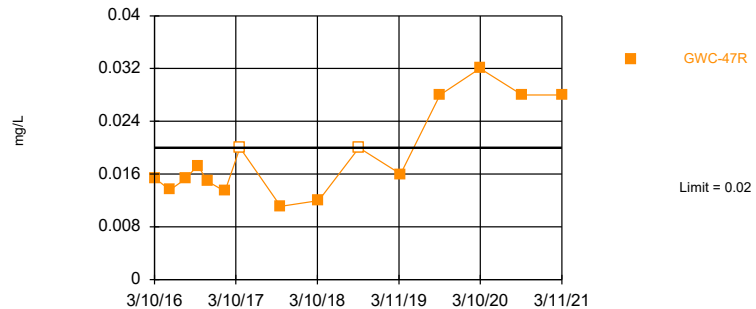


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 47 background values. 55.32% NDs. Annual per-constituent alpha = 0.000432. Individual comparison alpha = 0.00005401 (1 of 3). Assumes 3 future values.

Constituent: Chromium Analysis Run 4/29/2021 2:13 PM View: Bedrock - Appendix I Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit: GWC-47R

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 56.1% NDs. Annual per-constituent alpha = 0.0006148. Individual comparison alpha = 0.00007687 (1 of 3). Assumes 3 future values.

Constituent: Zinc Analysis Run 4/29/2021 2:13 PM View: Bedrock - Appendix I Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 2:23 PM View: Bedrock - Appendix I Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43R (bg)	GWA-41R (bg)	GWC-49R	GWA-39RZ (bg)
3/11/2016	0.00819 (J)			
3/15/2016		0.0462		
3/17/2016			0.0112	
5/13/2016	0.00756 (J)	0.0265		
5/16/2016				0.0113 (D)
5/18/2016			0.0107	
7/19/2016	0.0079 (J)			
7/21/2016		0.0243		
7/27/2016			0.0104	0.0114 (D)
9/16/2016	0.0078 (J)			
9/21/2016		0.0145	0.0106	
11/2/2016	0.0082 (J)			
11/3/2016		0.0082 (J)		
11/4/2016			0.0098 (J)	
1/17/2017		0.007 (J)		
1/18/2017	0.0085 (J)			
1/24/2017			0.0101	
2/21/2017				0.0178
3/27/2017		0.016		0.0162 (D)
3/28/2017	0.0084 (J)			
3/29/2017			0.0103	
6/6/2017	0.0078 (J)	0.0301		
6/8/2017			<0.0106 (*)	0.0156 (D)
7/17/2017				0.016 (D)
7/27/2017				0.0184
8/9/2017				0.0162
9/22/2017	0.0076 (J)			
9/25/2017		0.0169		
9/29/2017			0.0097 (J)	0.0159 (D)
3/14/2018		0.036		
3/15/2018	0.0092 (J)		0.0093 (J)	
3/16/2018				0.016
9/12/2018	0.008 (J)	0.021		
9/13/2018			0.01	
9/14/2018				0.015
3/13/2019	0.0077 (J)			
3/14/2019		0.04		0.018
3/18/2019			0.015	
9/10/2019		0.031		
9/11/2019	0.0079 (J)		0.017	
3/9/2020	0.0069 (J)	0.031		0.017
3/11/2020			0.026	
9/10/2020		0.031		
9/11/2020			0.012	
9/14/2020	0.0075 (J)			
9/16/2020				0.027
3/10/2021		0.023		
3/11/2021	0.0069			
3/15/2021			0.012	
3/16/2021				0.014

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 2:23 PM View: Bedrock - Appendix I Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-46R	GWA-43R (bg)	GWA-41R (bg)	GWA-39RZ (bg)
3/10/2016	<0.005			
3/11/2016		0.00212 (J)		
3/15/2016			<0.005	
5/13/2016		<0.005	<0.005	
5/16/2016				<0.005 (D)
5/17/2016	<0.005			
7/19/2016		0.0006 (J)		
7/21/2016			<0.005	
7/26/2016	0.0017 (J)			
7/27/2016				0.0017 (JD)
9/16/2016		<0.005		
9/20/2016	0.0015 (J)			
9/21/2016			<0.005	
11/2/2016		<0.005		
11/3/2016			<0.005	
11/4/2016	0.0016 (J)			
1/17/2017			<0.005	
1/18/2017		0.0014 (J)		
1/20/2017	0.0018 (J)			
2/21/2017				0.001 (J)
3/27/2017			<0.005	<0.005 (D)
3/28/2017	<0.005 (*)	<0.005 (*)		
6/6/2017		0.0009 (J)	0.0004 (J)	
6/7/2017	0.0018 (J)			
6/8/2017				<0.005 (D)
7/17/2017				<0.005 (D)
7/27/2017				0.0005 (J)
8/9/2017				0.0005 (J)
9/22/2017		0.0006 (J)		
9/25/2017			<0.005	
9/29/2017	0.0033 (J)			0.0006 (JD)
3/14/2018			<0.005	
3/15/2018	0.0021 (J)	0.0017 (J)		
3/16/2018				<0.005
9/12/2018		<0.005	<0.005	
9/13/2018	0.0041 (J)			
9/14/2018				<0.005
3/13/2019		<0.005		
3/14/2019			<0.005	0.004 (J)
3/18/2019	0.0022 (J)			
9/10/2019			<0.005	
9/11/2019	0.0038 (J)	0.00066 (J)		
3/9/2020		0.0014 (J)	0.0004 (J)	0.0016 (J)
3/10/2020	0.0035 (J)			
9/10/2020			<0.005	
9/14/2020	0.006 (J)	0.0011 (J)		
9/16/2020				0.00058 (J)
3/10/2021			<0.005	
3/11/2021	0.0059	0.0011 (J)		
3/16/2021				0.0008 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 2:23 PM View: Bedrock - Appendix I Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWA-43R (bg)	GWA-41R (bg)	GWA-39RZ (bg)
3/10/2016	0.0154			
3/11/2016		0.00722 (J)		
3/15/2016			0.00286 (J)	
5/13/2016		0.00666 (J)	<0.02	
5/16/2016				<0.02 (D)
5/18/2016	0.0136			
7/19/2016		<0.02 (*)		
7/21/2016			<0.02 (*)	
7/27/2016	0.0153			<0.02 (*)
9/16/2016		<0.02		
9/20/2016	0.0173			
9/21/2016			<0.02	
11/2/2016		0.0057 (J)		
11/3/2016			<0.02	
11/4/2016	0.0149			
1/17/2017			<0.02	
1/18/2017		0.0022 (J)		
1/20/2017	0.0134			
2/21/2017				0.0049 (J)
3/27/2017			<0.02 (*)	<0.02 (*)
3/28/2017		<0.02		
3/29/2017	<0.02 (*)			
9/22/2017		0.0014 (J)		
9/25/2017			0.0023 (J)	
9/27/2017	0.0111			
9/29/2017				0.0012 (JD)
3/14/2018			<0.02	
3/15/2018		<0.02		
3/16/2018	0.012			0.0042 (J)
9/12/2018		<0.02	<0.02	
9/13/2018	<0.02			
9/14/2018				<0.02
3/13/2019		0.0023 (J)		
3/14/2019			0.0021 (J)	0.0035 (J)
3/19/2019	0.016			
9/10/2019			0.0075 (J)	
9/11/2019	0.028	0.0053 (J)		
3/9/2020	0.032	0.0022 (J)	0.0024 (J)	0.009 (J)
9/10/2020			<0.02	
9/14/2020		<0.02		
9/15/2020	0.028			
9/16/2020				<0.02
3/10/2021			<0.02	
3/11/2021	0.028	<0.02		
3/16/2021				<0.02

FIGURE F.

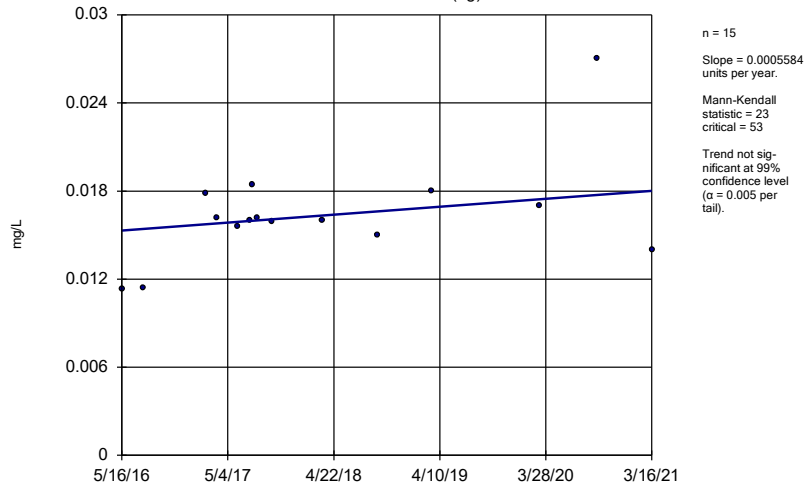
Appendix I Bedrock Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 3:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39RZ (bg)	0.0005584	23	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41R (bg)	0.001767	21	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43R (bg)	-0.0001579	-37	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-49R	0.0003487	17	58	No	16	6.25	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39RZ (bg)	-0.0001177	-23	-53	No	15	40	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41R (bg)	0	-10	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43R (bg)	-0.00009397	-22	-58	No	16	37.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWC-46R	0.0003103	28	58	No	16	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-39RZ (bg)	0	0	34	No	11	54.55	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-41R (bg)	0	-10	-53	No	15	66.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-43R (bg)	0	-3	-53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-47R	0.002517	23	53	No	15	13.33	n/a	n/a	0.01	NP

Sen's Slope Estimator

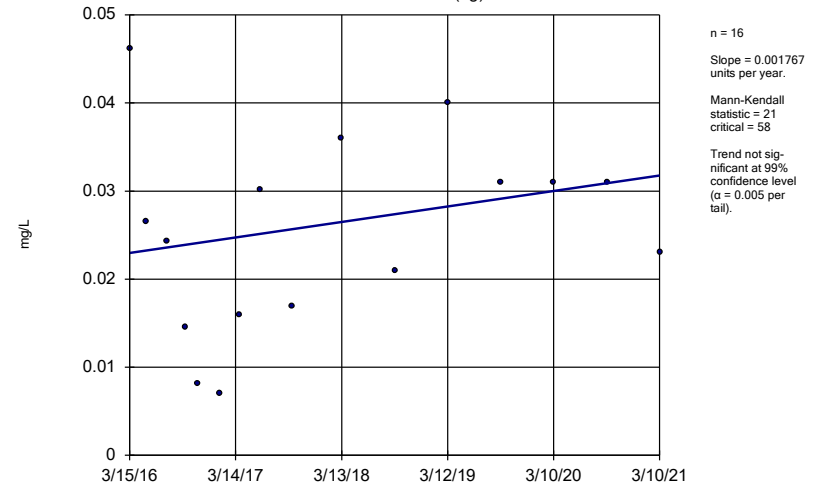
GWA-39RZ (bg)



Constituent: Barium Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

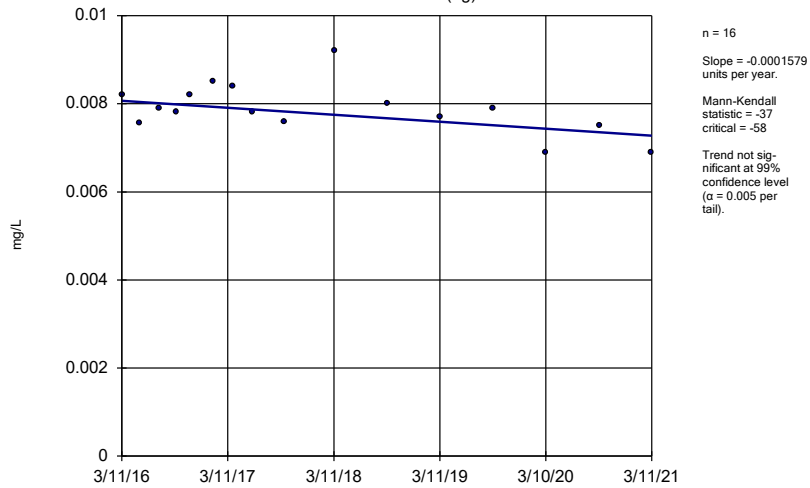
GWA-41R (bg)



Constituent: Barium Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

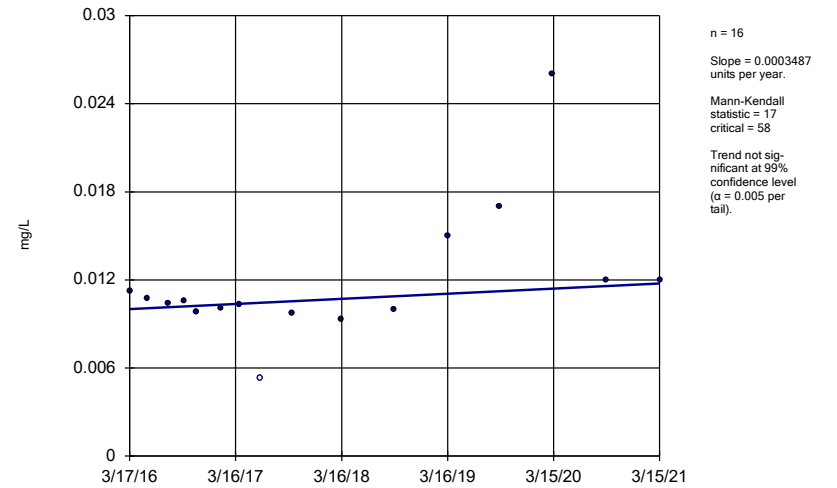
GWA-43R (bg)



Constituent: Barium Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

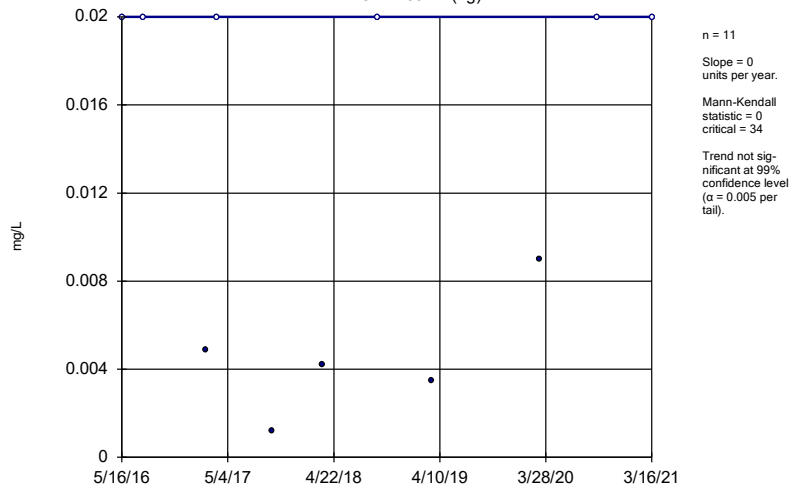
GWC-49R



Constituent: Barium Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

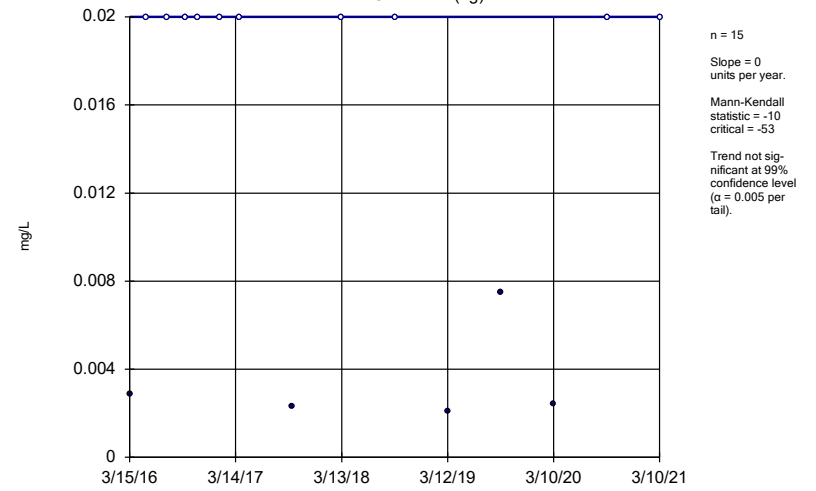
GWA-39RZ (bg)



Constituent: Zinc Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

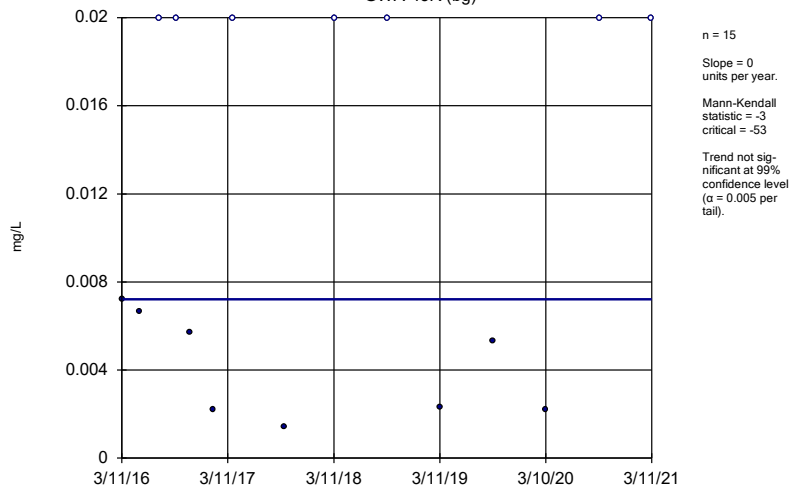
GWA-41R (bg)



Constituent: Zinc Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

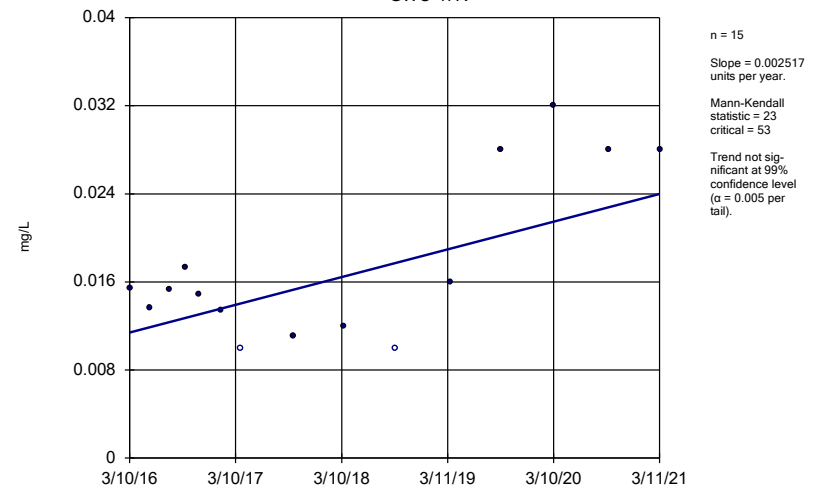
GWA-43R (bg)



Constituent: Zinc Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWC-47R



Constituent: Zinc Analysis Run 4/29/2021 3:45 PM View: Bedrock - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE G.

Appendix I Overburden Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/12/2021	0.0039	Yes	11	0.001342	0.0008802	27.27	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/11/2021	0.038	Yes	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/11/2021	0.047	Yes	11	0.02497	0.005411	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3

Appendix I Overburden Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-39Z	0.003043	n/a	3/12/2021	0.0039	Yes	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	3/10/2021	0.003ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-41	0.003	n/a	3/11/2021	0.00038J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Antimony (mg/L)	GWA-42	0.003	n/a	3/11/2021	0.003ND	No	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	3/11/2021	0.003ND	No	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	3/11/2021	0.00062J	No	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	3/11/2021	0.003ND	No	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	3/11/2021	0.003ND	No	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	3/15/2021	0.00086J	No	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	3/12/2021	0.005ND	No	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	3/10/2021	0.005ND	No	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	3/11/2021	0.005ND	No	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	3/11/2021	0.005ND	No	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	3/12/2021	0.014	No	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	3/10/2021	0.0083	No	10	0.009012	0.001613	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-41	0.03429	n/a	3/11/2021	0.024	No	11	0.02693	0.003812	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-42	0.00668	n/a	3/11/2021	0.0061	No	11	0.006255	0.0002197	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWA-43	0.04119	n/a	3/11/2021	0.0096	No	11	0.02405	0.00887	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-44	0.0758	n/a	3/11/2021	0.046	No	10	0.0348	0.0205	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-45	0.006266	n/a	3/11/2021	0.0059	No	10	0.00579	0.0002378	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-47	0.01736	n/a	3/11/2021	0.0083	No	11	0.01361	0.001939	0	None	No	0.0007022	Param Intra 1 of 3
Barium (mg/L)	GWC-48	0.03637	n/a	3/11/2021	0.038	Yes	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	3/15/2021	0.0028J	No	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	3/11/2021	0.00015J	No	9	n/a	n/a	0	n/a	n/a	0.004675	NP Intra (normality) 1 of 3
Beryllium (mg/L)	GWA-43	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Beryllium (mg/L)	GWC-44	0.003	n/a	3/11/2021	0.000064J	No	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	3/11/2021	0.00033J	No	11	n/a	n/a	27.27	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-39Z	0.0005	n/a	3/12/2021	0.0005ND	No	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	3/11/2021	0.00017J	No	11	n/a	n/a	18.18	n/a	n/a	0.002806	NP Intra (normality) 1 of 3
Cadmium (mg/L)	GWA-43	0.0005	n/a	3/11/2021	0.0005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	GWC-44	0.0005	n/a	3/11/2021	0.0005ND	No	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	3/11/2021	0.00018J	No	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	3/11/2021	0.00021J	No	10	-8.534	0.6559	10	None	ln(x)	0.0007022	Param Intra 1 of 3
Cadmium (mg/L)	GWC-49Z	0.0001785	n/a	3/15/2021	0.0005ND	No	11	0.0103	0.001585	36.36	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Chromium (mg/L)	GWA-39Z	0.01	n/a	3/12/2021	0.00064J	No	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	3/10/2021	0.00075J	No	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	3/11/2021	0.0015J	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Chromium (mg/L)	GWC-45	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0013J	No	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	3/11/2021	0.0021J	No	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	3/15/2021	0.005ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-39Z	0.009517	n/a	3/12/2021	0.00079J	No	11	0.04959	0.02482	9.091	None	sqrt(x)	0.0007022	Param Intra 1 of 3
Cobalt (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0016J	No	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	3/11/2021	0.0011J	No	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	3/11/2021	0.0025J	No	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	3/15/2021	0.00056J	No	11	0.003487	0.001319	18.18	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Copper (mg/L)	GWA-39Z	0.005	n/a	3/12/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-40	0.005	n/a	3/10/2021	0.005ND	No	10	n/a	n/a	100	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-41	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-42	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

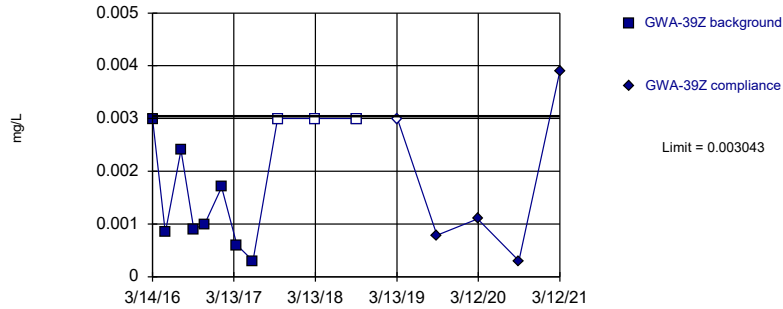
Appendix I Overburden Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-45	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Copper (mg/L)	GWC-47	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-48	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	80	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Copper (mg/L)	GWC-49Z	0.005	n/a	3/15/2021	0.005ND	No	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	3/12/2021	0.0002J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-40	0.001	n/a	3/10/2021	0.001ND	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-41	0.001	n/a	3/11/2021	0.001ND	No	11	n/a	n/a	100	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWA-42	0.001	n/a	3/11/2021	0.001ND	No	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	3/11/2021	0.000063J	No	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	3/11/2021	0.00053J	No	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	3/11/2021	0.00012J	No	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	3/11/2021	0.000048J	No	11	n/a	n/a	72.73	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Lead (mg/L)	GWC-48	0.001	n/a	3/11/2021	0.001ND	No	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	3/15/2021	0.000046J	No	11	n/a	n/a	81.82	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-40	0.0002	n/a	3/10/2021	0.0002ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWA-42	0.0002	n/a	3/11/2021	0.0002ND	No	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	3/11/2021	0.0002J	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Mercury (mg/L)	GWC-49Z	0.0002	n/a	3/15/2021	0.0002ND	No	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	3/12/2021	0.0015J	No	10	0.004838	0.00355	20	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Nickel (mg/L)	GWA-41	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0011J	No	10	n/a	n/a	20	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	10	n/a	n/a	40	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-44	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.00092J	No	10	n/a	n/a	10	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Nickel (mg/L)	GWC-47	0.005	n/a	3/11/2021	0.005ND	No	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	3/11/2021	0.0047J	No	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	3/15/2021	0.0013J	No	10	0.004688	0.002447	10	None	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWA-43	0.005	n/a	3/11/2021	0.005ND	No	11	n/a	n/a	90.91	n/a	n/a	0.002806	NP Intra (NDs) 1 of 3
Selenium (mg/L)	GWC-44	0.005726	n/a	3/11/2021	0.005ND	No	11	0.0032	0.001307	45.45	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Selenium (mg/L)	GWC-48	0.005	n/a	3/11/2021	0.005ND	No	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	3/12/2021	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)	GWA-40	0.001	n/a	3/10/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/11/2021	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-47	0.001	n/a	3/11/2021	0.001ND	No	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	3/11/2021	0.001ND	No	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	3/15/2021	0.001ND	No	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	3/11/2021	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-45	0.01	n/a	3/11/2021	0.01ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-39Z	0.02	n/a	3/12/2021	0.0065J	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-40	0.02	n/a	3/10/2021	0.02ND	No	10	n/a	n/a	90	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3
Zinc (mg/L)	GWA-41	0.02	n/a	3/11/2021	0.02ND	No	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	3/11/2021	0.0089J	No	10	0.09783	0.01143	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWA-43	0.01051	n/a	3/11/2021	0.02ND	No	10	0.06139	0.02056	50	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-44	0.006244	n/a	3/11/2021	0.004J	No	10	0.06517	0.006924	40	Kaplan-Meier	sqrt(x)	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-45	0.02	n/a	3/11/2021	0.02ND	No	10	n/a	n/a	50	n/a	n/a	0.00344	NP Intra (normality) 1 of 3
Zinc (mg/L)	GWC-47	0.03542	n/a	3/11/2021	0.047	Yes	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	3/11/2021	0.0088J	No	10	0.006348	0.001312	50	Kaplan-Meier	No	0.0007022	Param Intra 1 of 3
Zinc (mg/L)	GWC-49Z	0.02	n/a	3/15/2021	0.02ND	No	10	n/a	n/a	60	n/a	n/a	0.00344	NP Intra (NDs) 1 of 3

Exceeds Limit

Prediction Limit
Intrawell Parametric

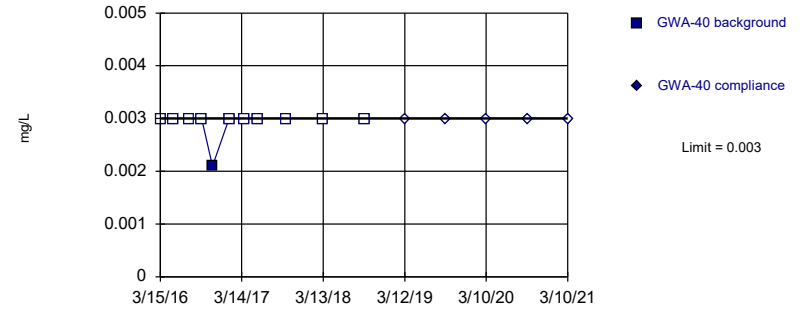


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001342, Std. Dev.=0.0008802, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8365, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

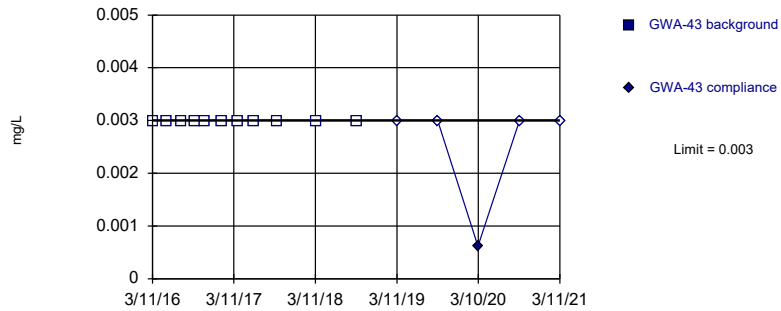
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

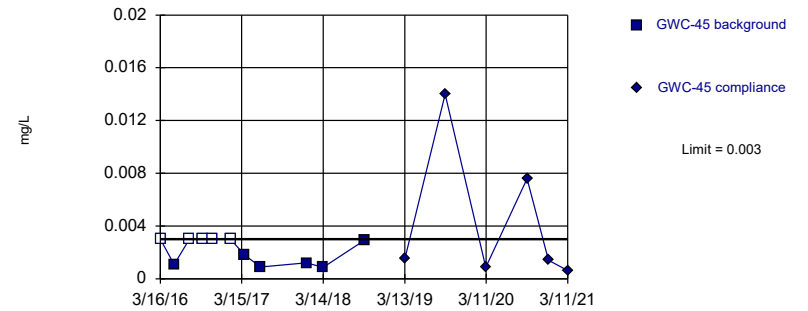


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

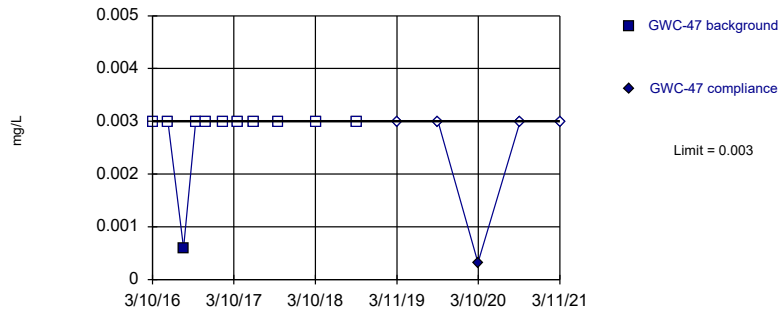


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

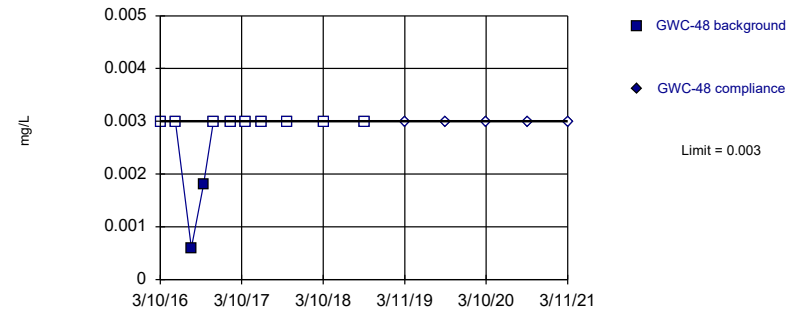


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

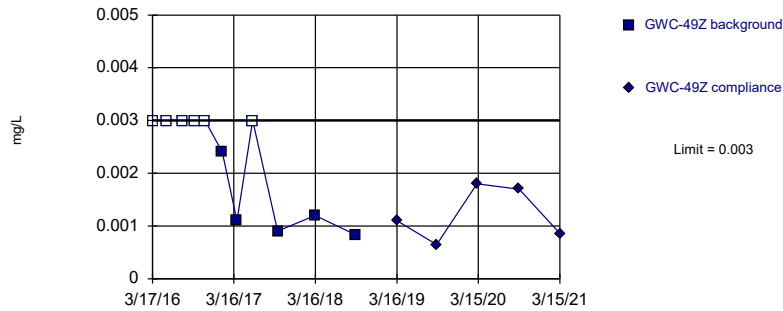


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

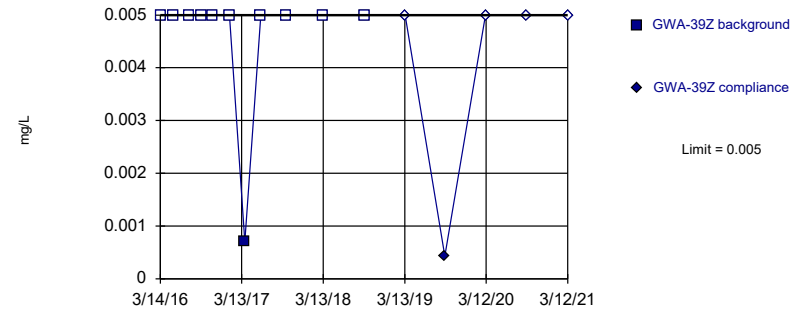


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Antimony Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

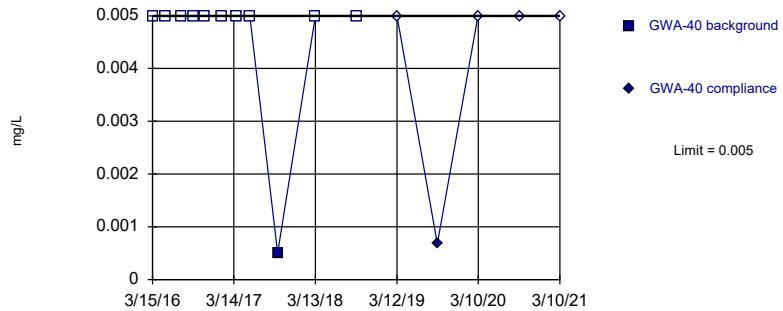


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

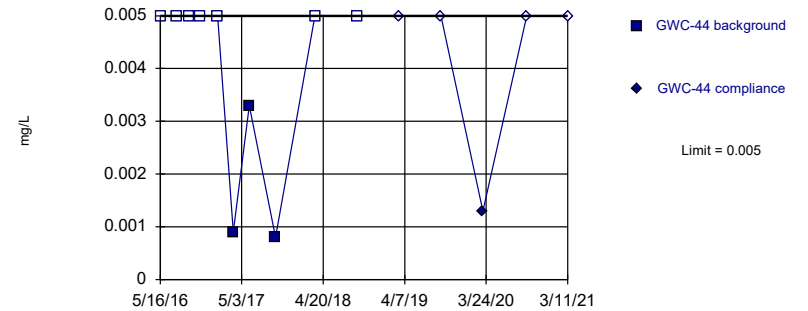


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

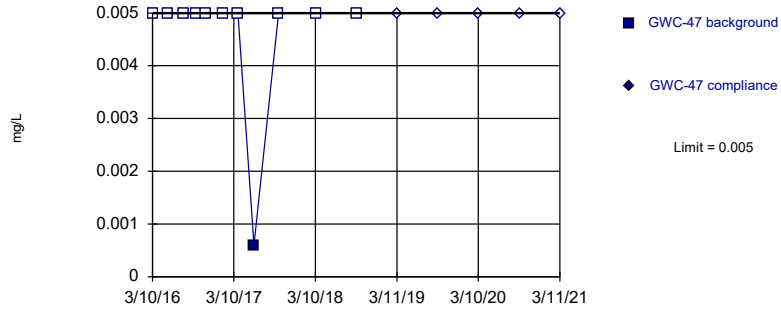


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

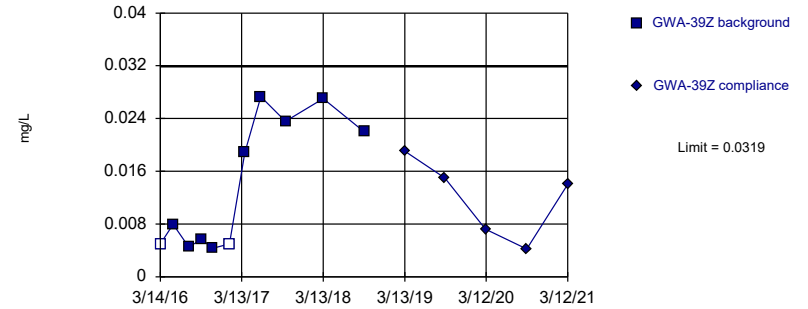


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Arsenic Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

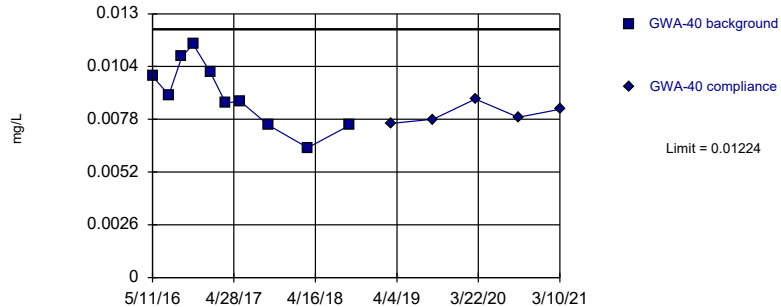


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.01385, Std. Dev.=0.009342, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7963, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

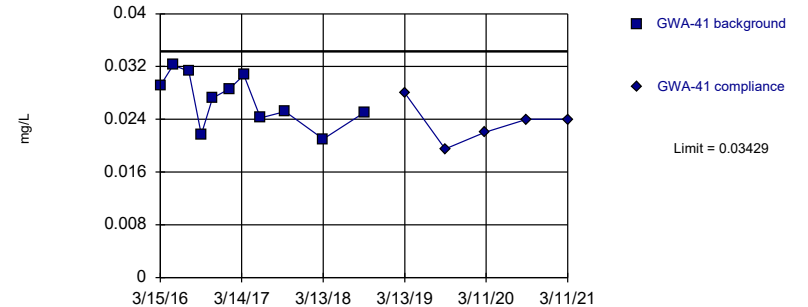


Background Data Summary: Mean=0.009012, Std. Dev.=0.001613, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

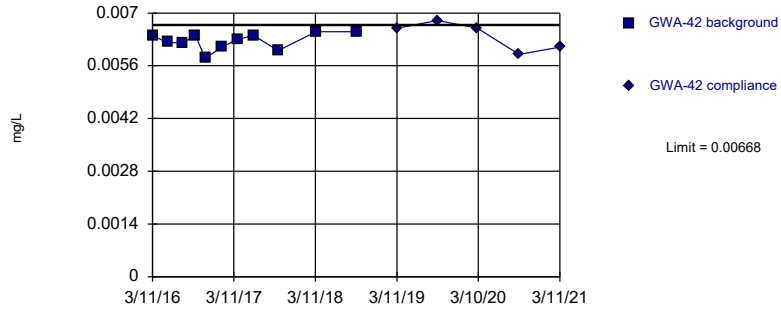


Background Data Summary: Mean=0.02693, Std. Dev.=0.003812, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

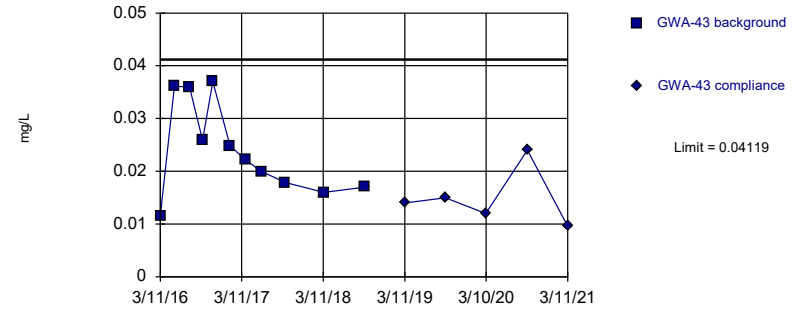


Background Data Summary: Mean=0.006255, Std. Dev.=0.0002197, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.919, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

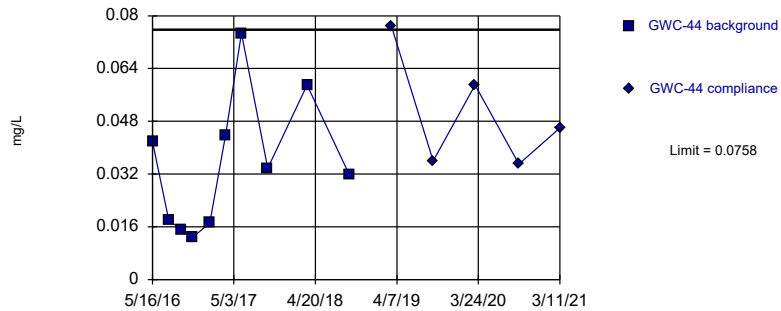


Background Data Summary: Mean=0.02405, Std. Dev.=0.00887, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

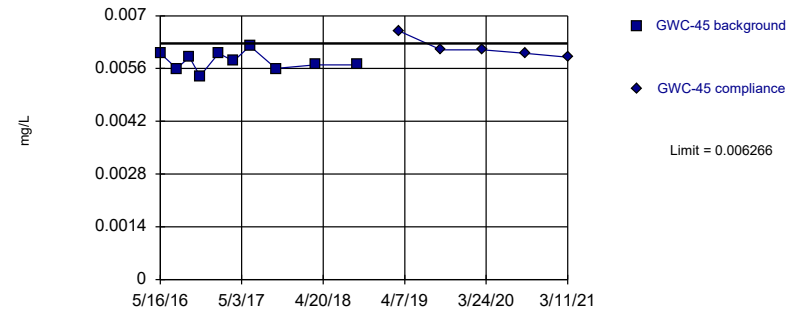


Background Data Summary: Mean=0.0348, Std. Dev.=0.0205, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9099, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:57 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

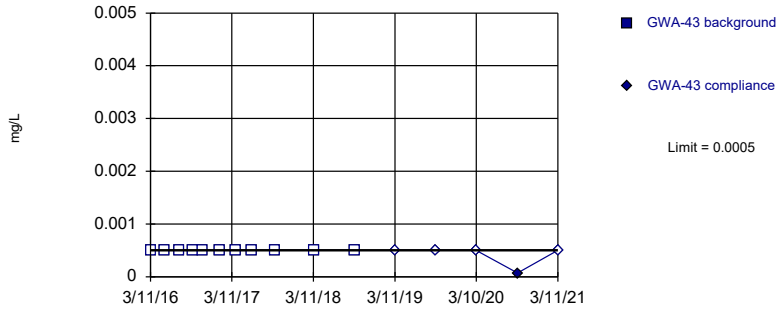


Background Data Summary: Mean=0.00579, Std. Dev.=0.0002378, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Barium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

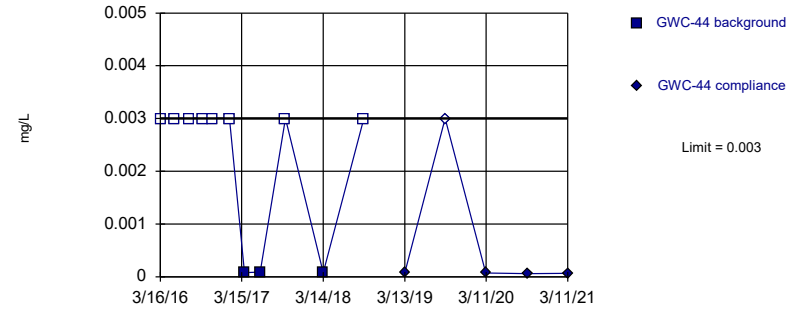


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

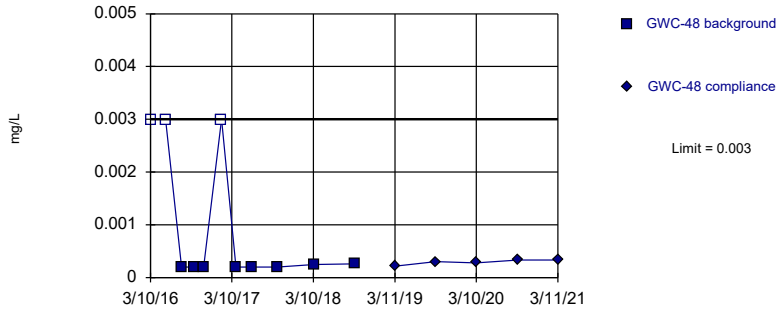


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

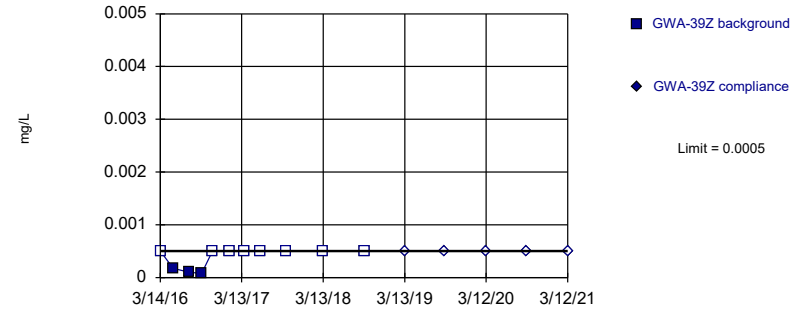


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Beryllium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

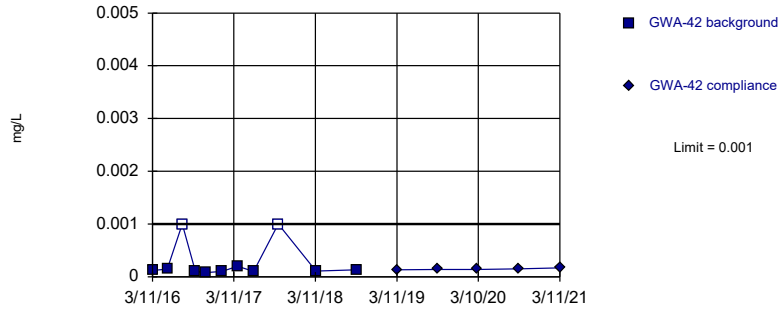


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

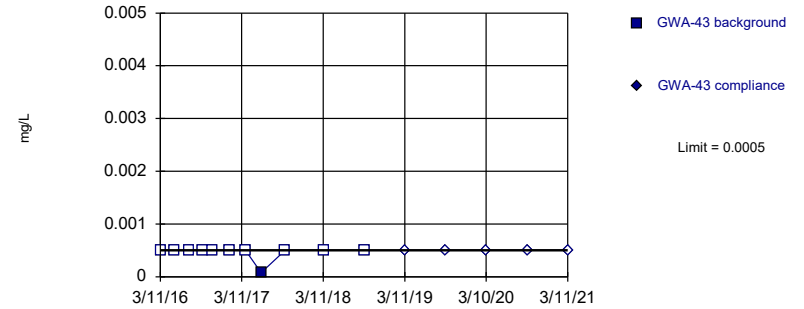


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 18.18% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

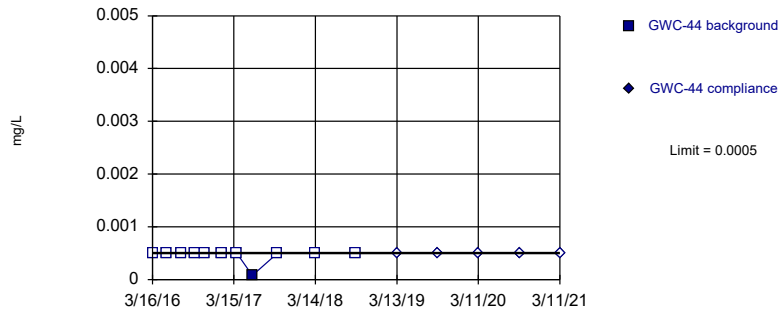


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

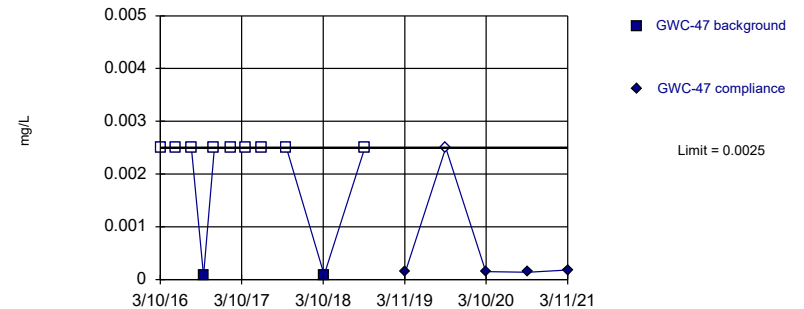


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

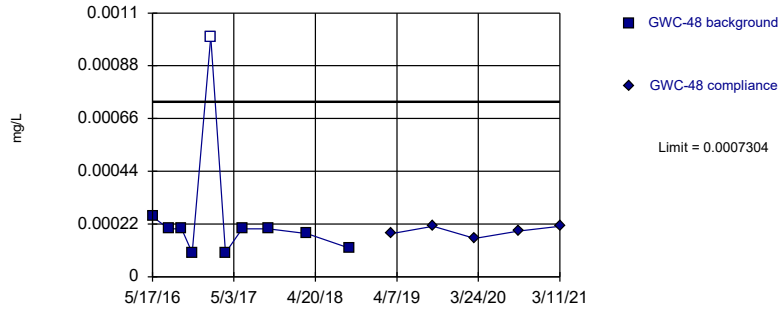


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cadmium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

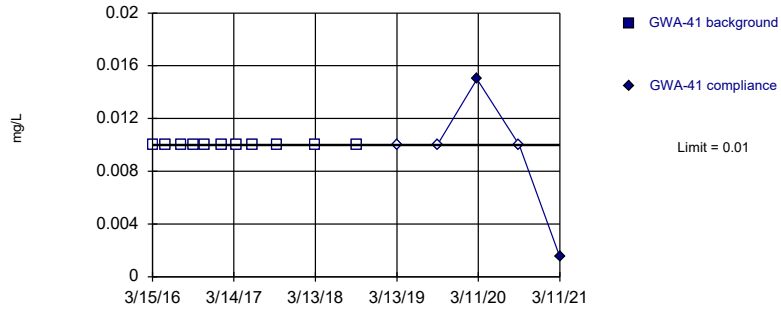
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

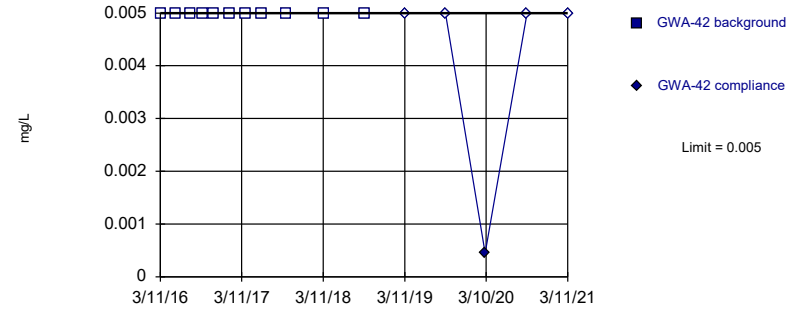


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

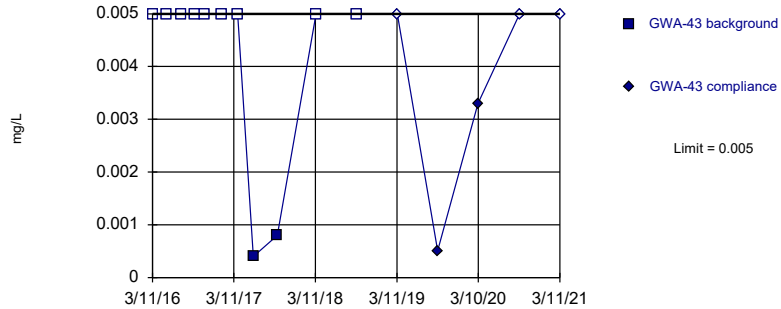


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

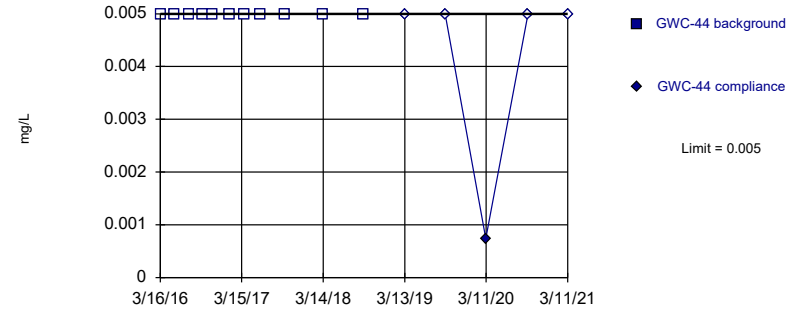


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

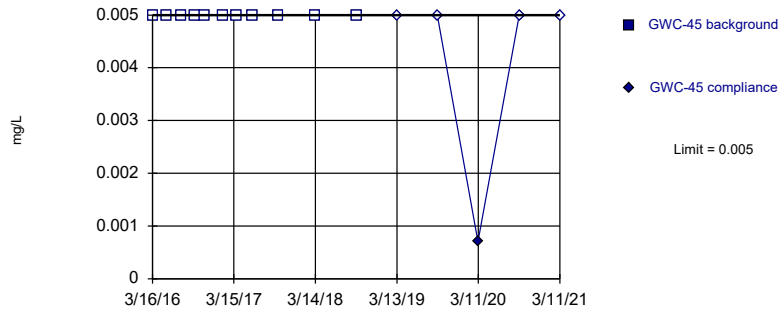


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

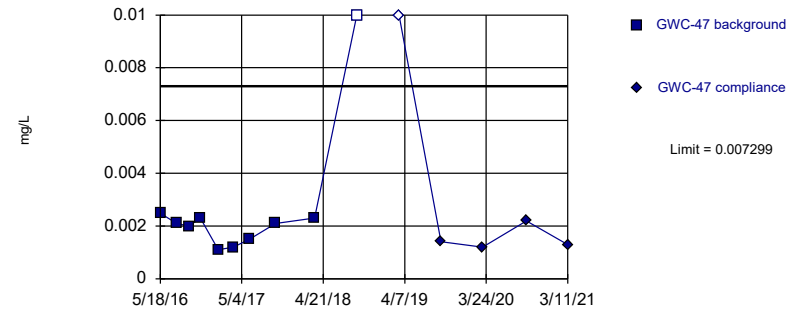


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

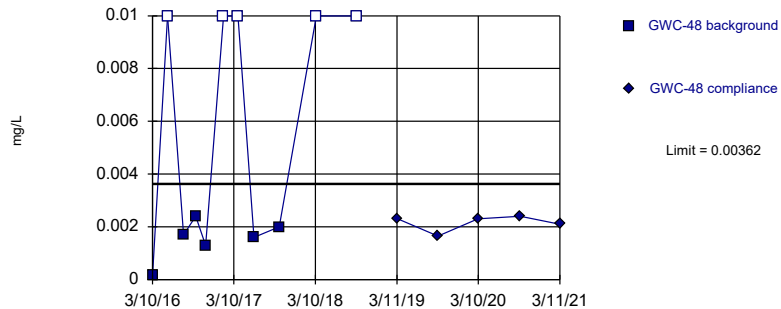


Background Data Summary (based on natural log transformation): Mean=-6.134, Std. Dev.=0.6071, n=10, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7857, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

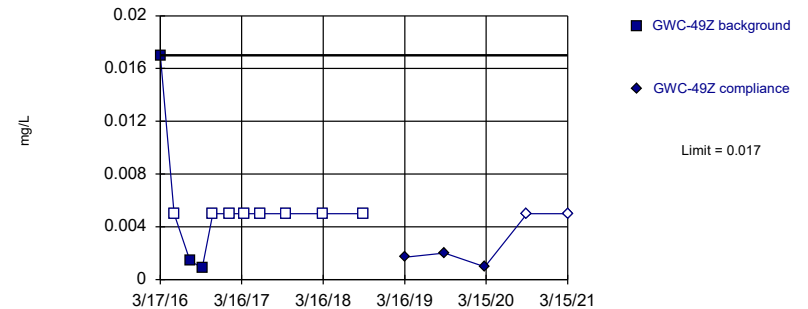


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.03719, Std. Dev.=0.01189, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7973, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

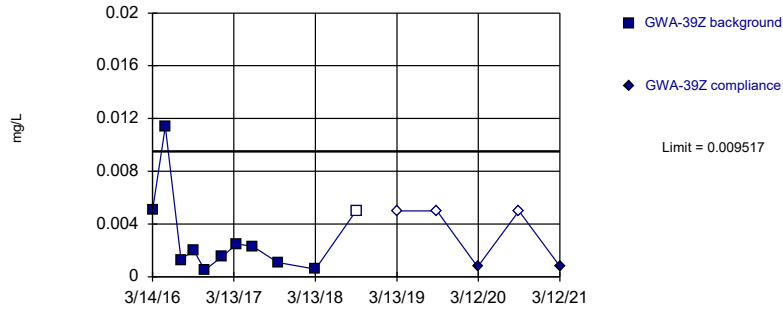


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Chromium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

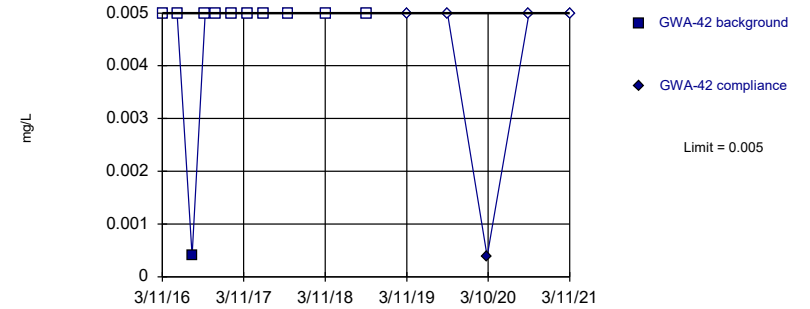


Background Data Summary (based on square root transformation): Mean=0.04959, Std. Dev.=0.02482, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8871, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

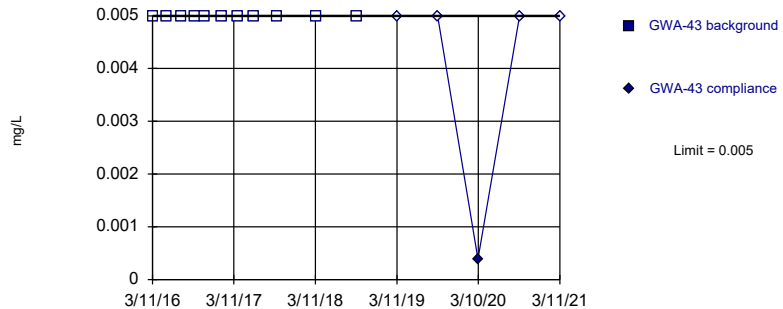


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

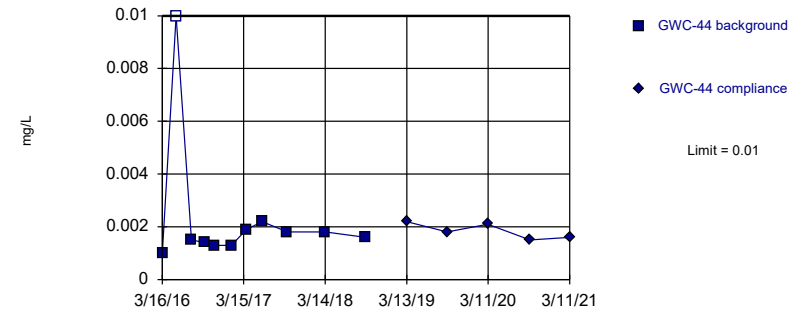


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

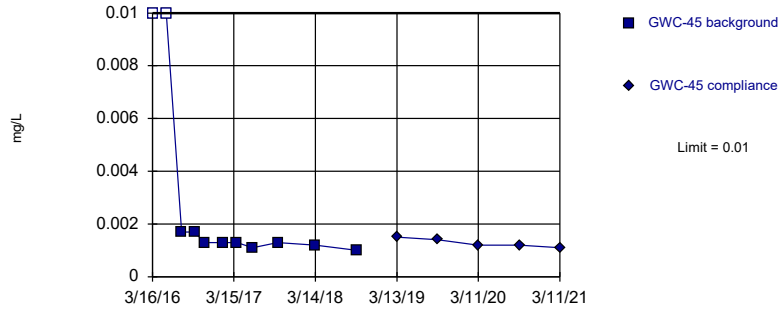


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 9.091% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

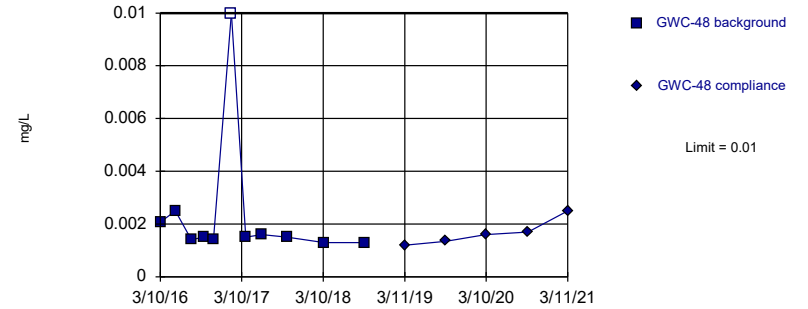


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 18.18% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric



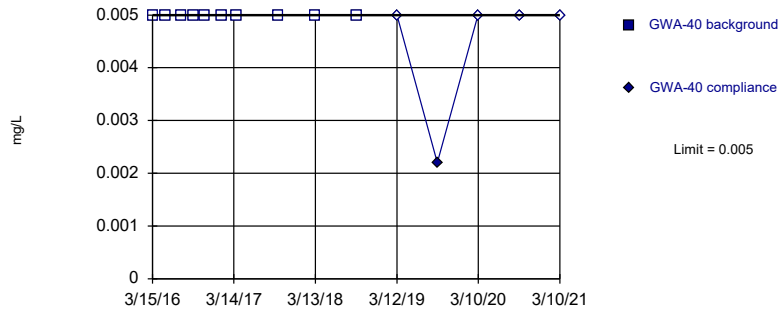
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 9.091% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Cobalt Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Within Limit

Prediction Limit
 Intrawell Non-parametric

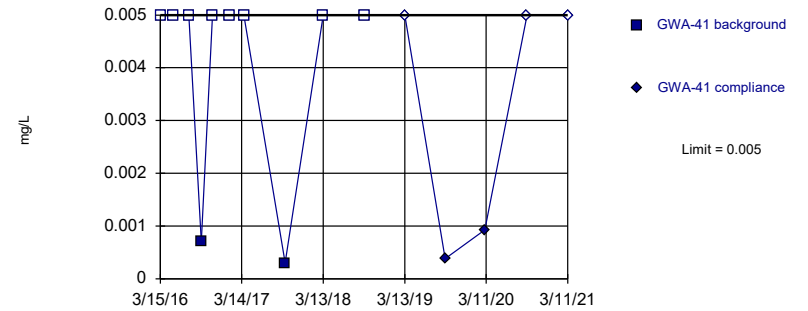


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 10) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

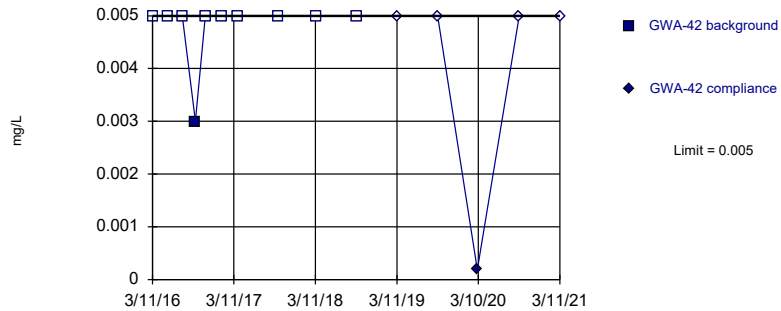


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

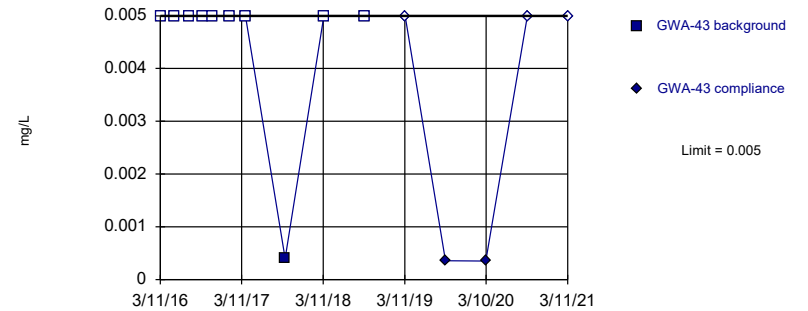


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

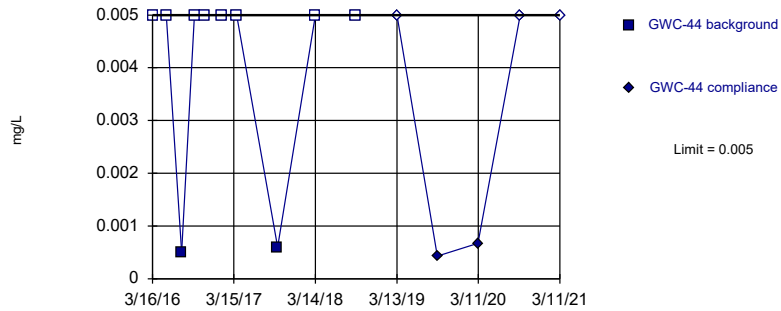


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

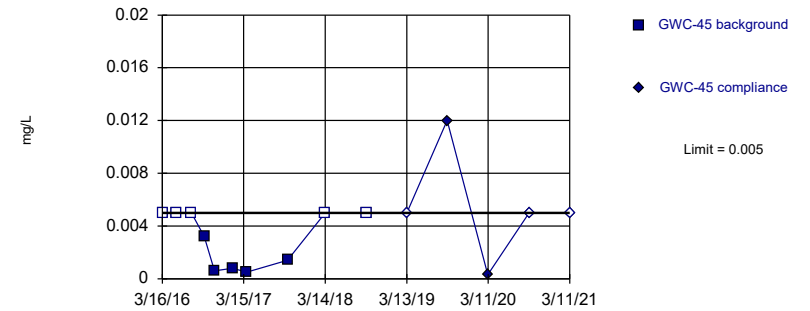


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

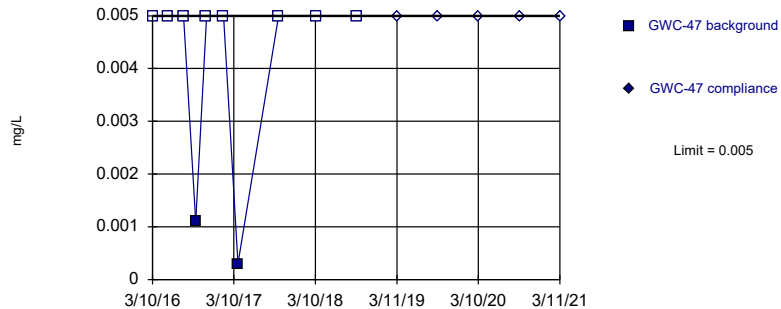


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

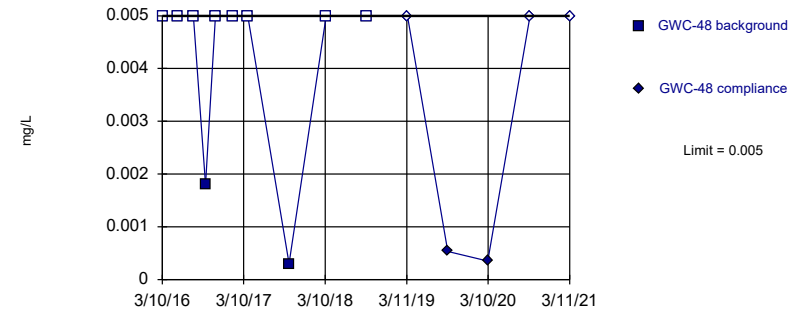


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

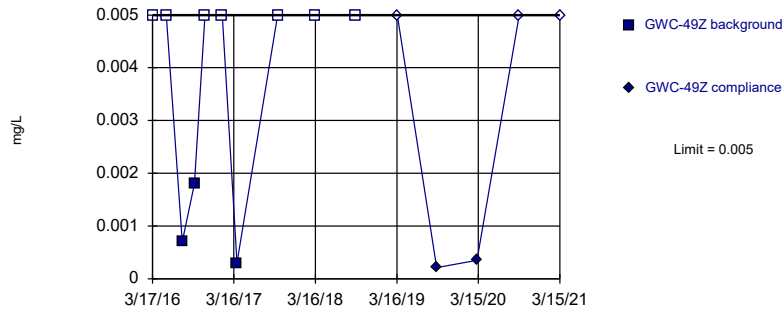


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 80% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

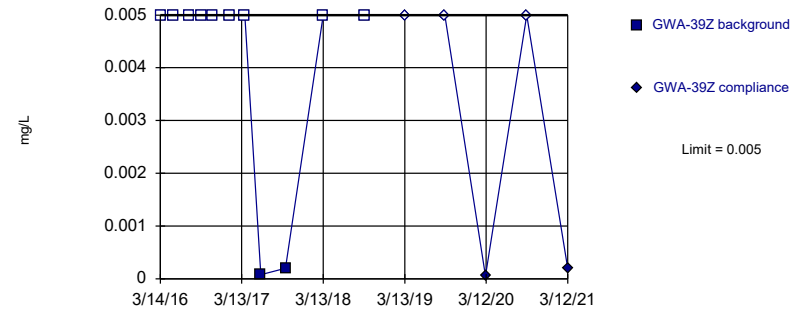


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 70% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Copper Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

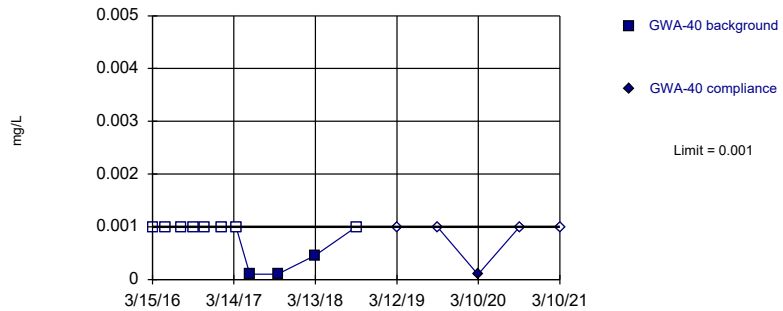


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

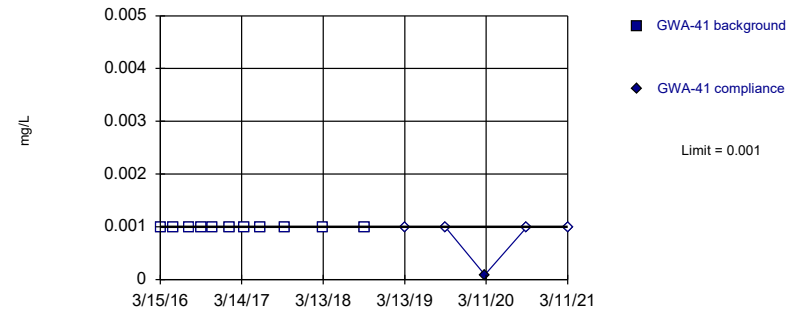


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

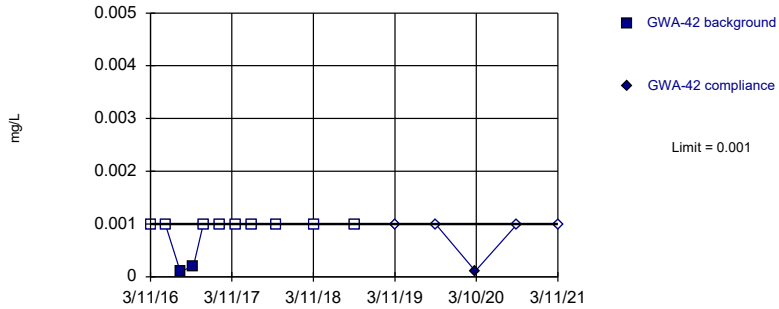


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

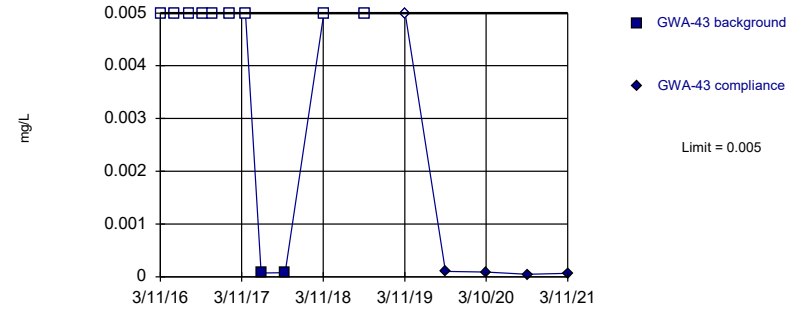


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

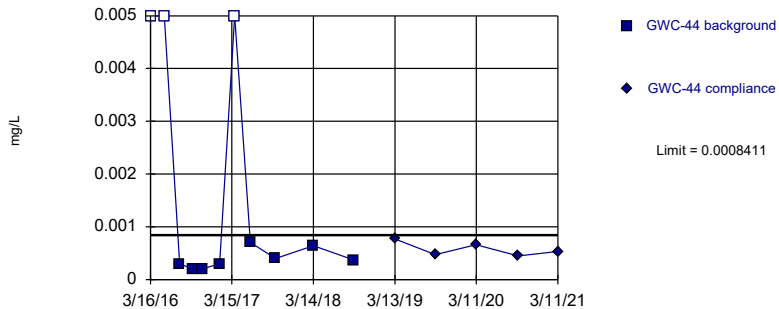


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

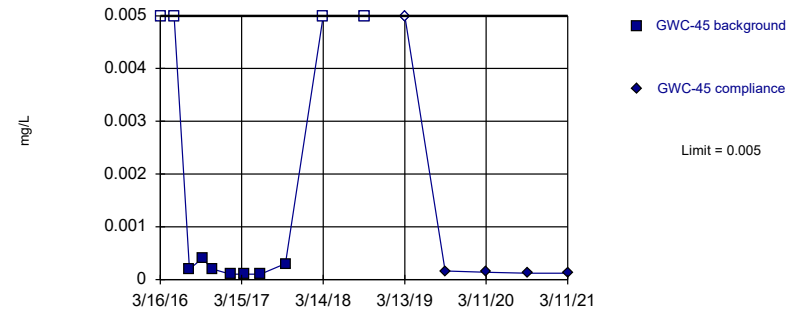


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-8.001, Std. Dev.=0.4762, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7955, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

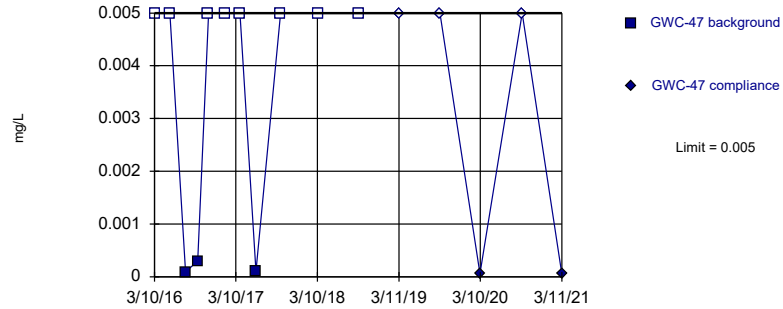


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

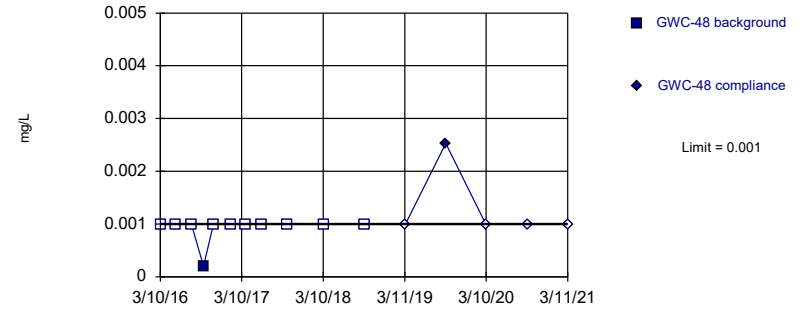


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

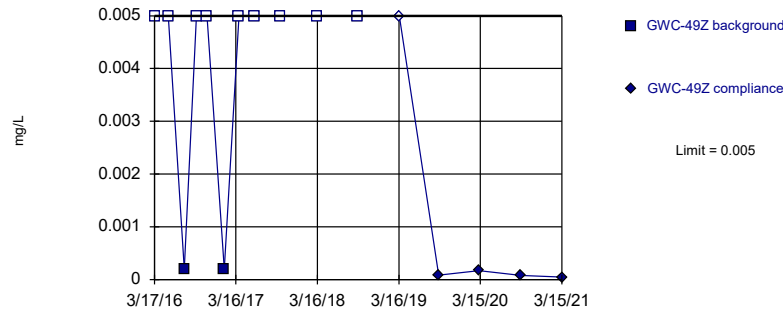


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

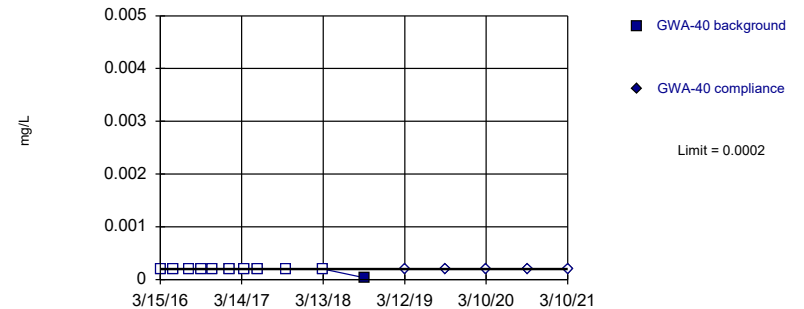


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Lead Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

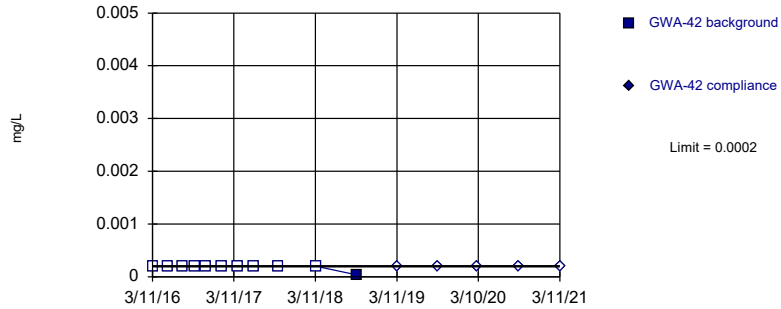


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

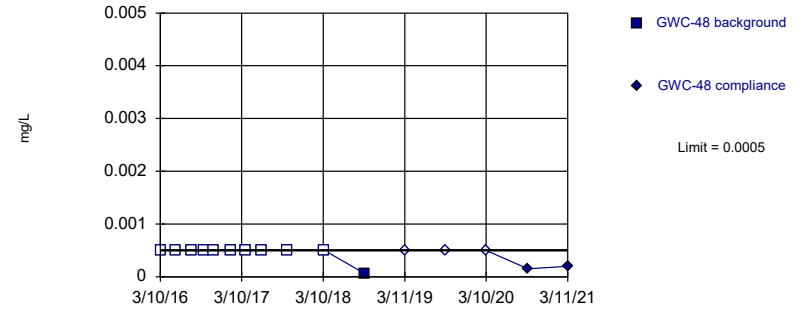


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

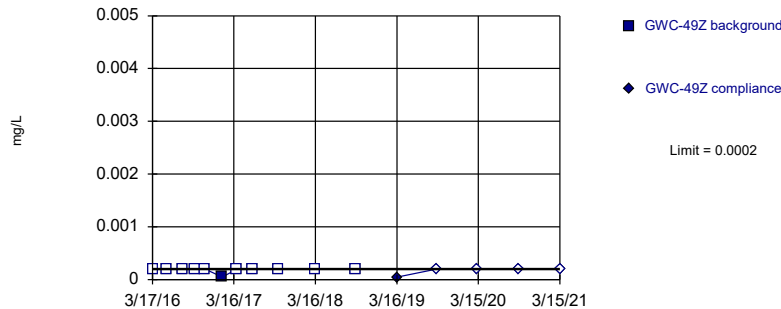


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

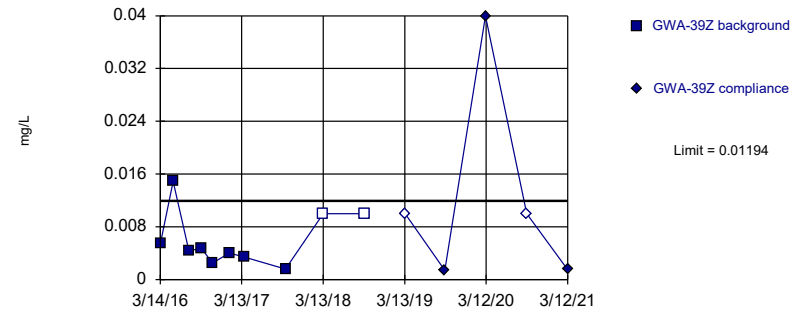


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Mercury Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

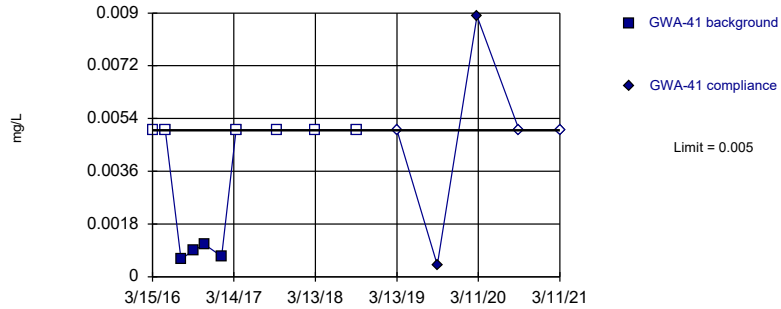


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004838, Std. Dev.=0.00355, n=10, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8664, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Nickel Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

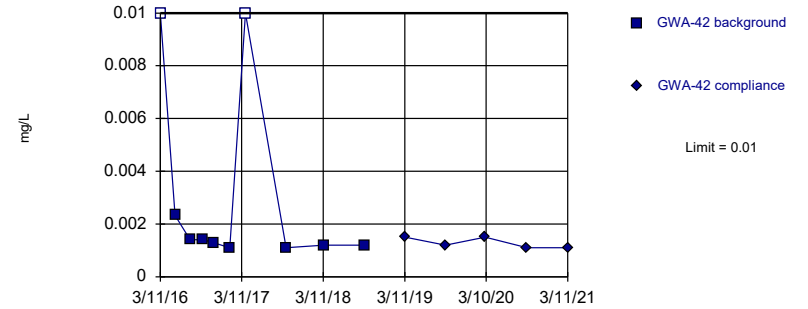


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

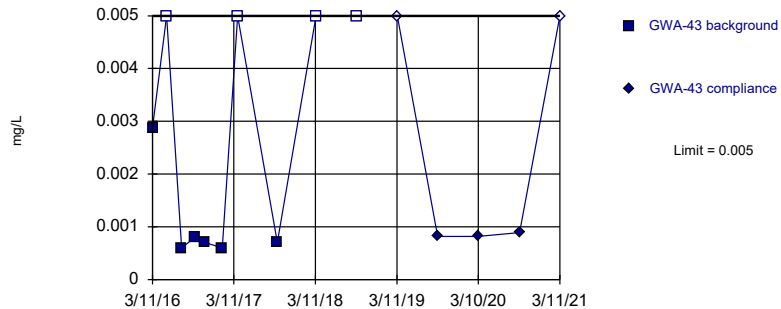


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 20% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

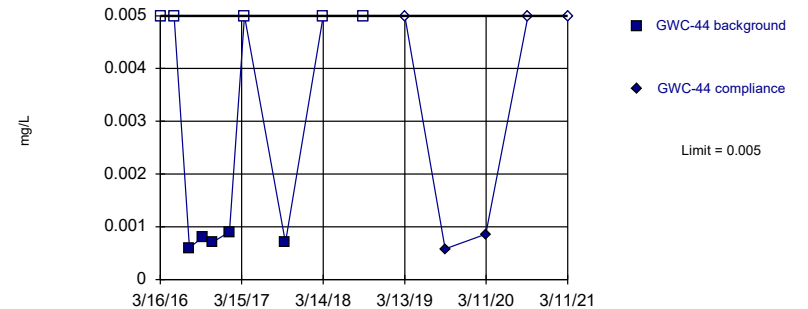


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 40% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

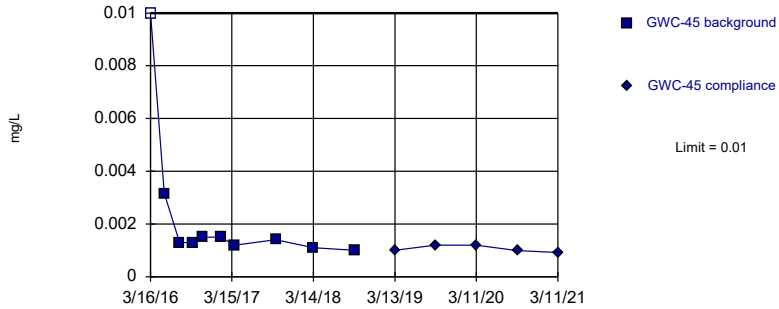


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. 50% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Nickel Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

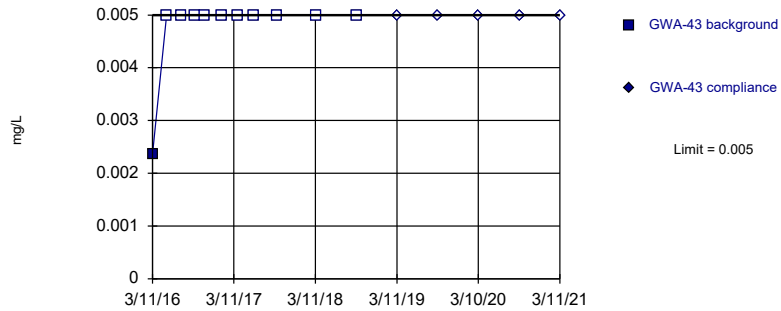
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

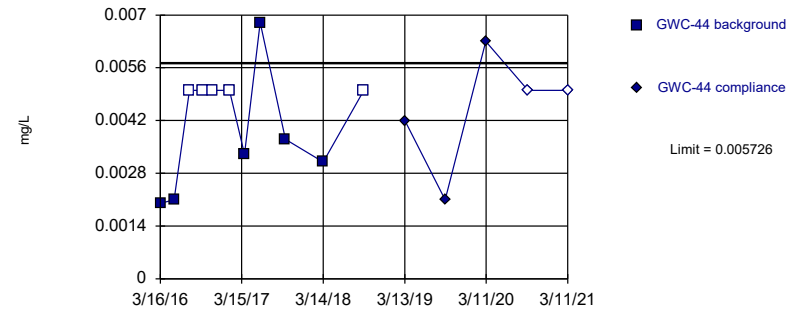


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

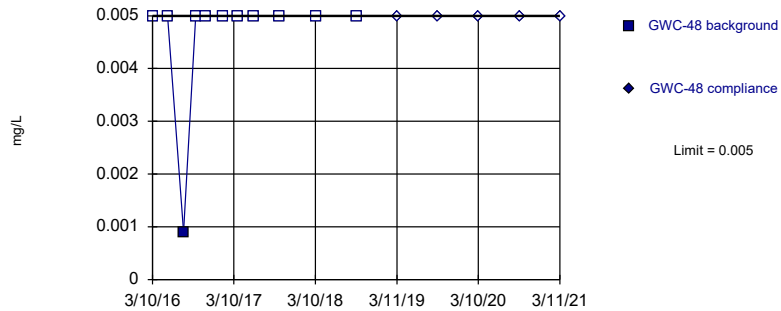


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0032, Std. Dev.=0.001307, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9066, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Selenium Analysis Run 4/29/2021 10:58 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

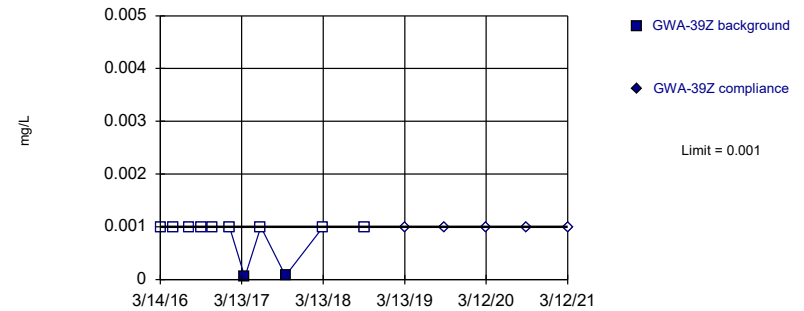


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Selenium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

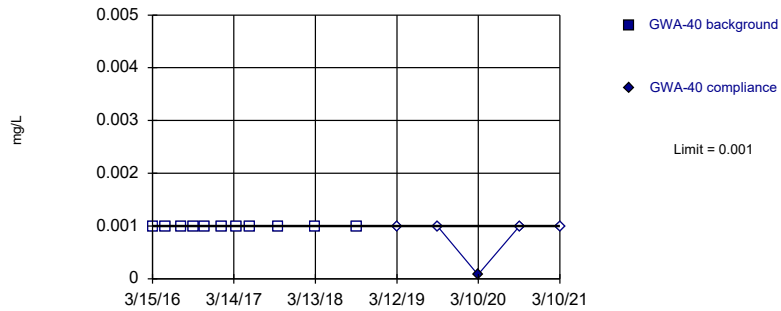


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

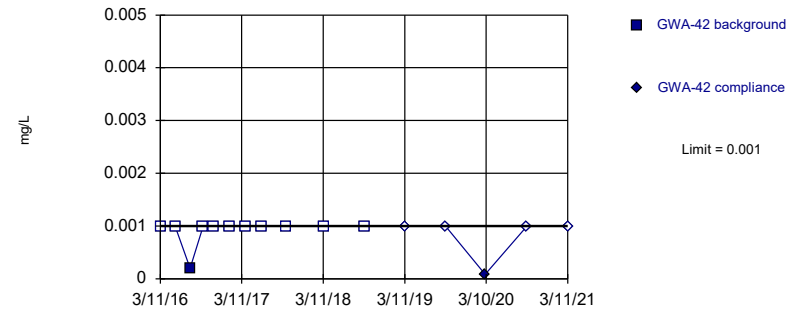


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

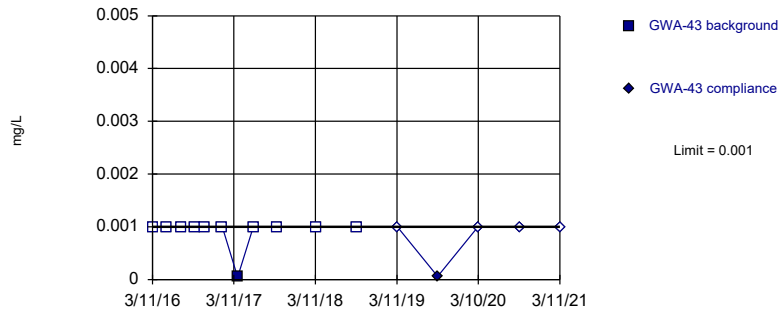


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

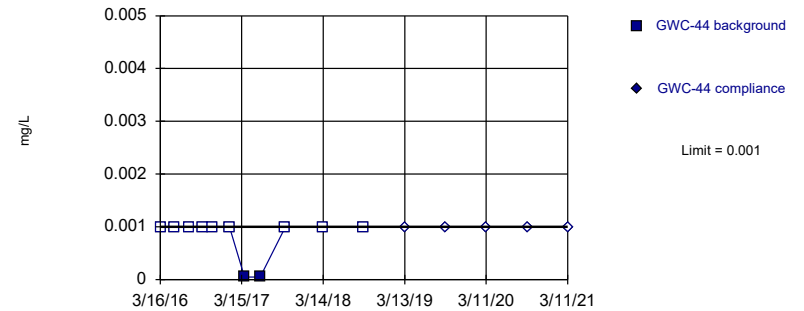


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

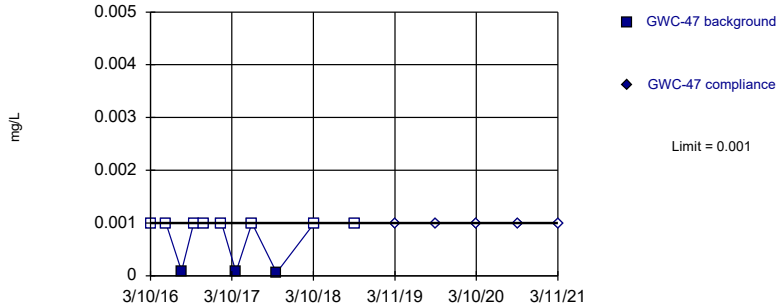


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

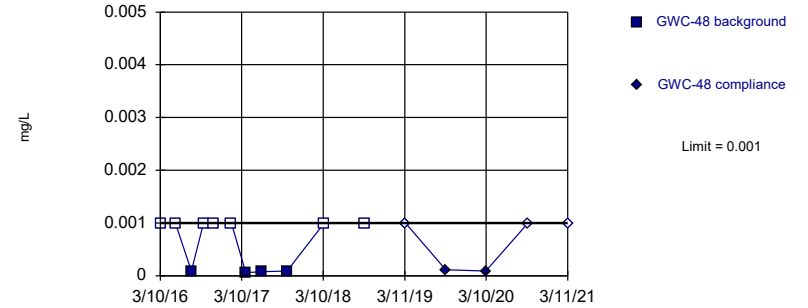


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

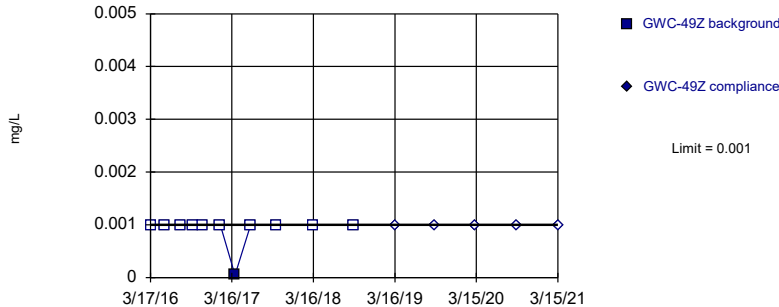


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

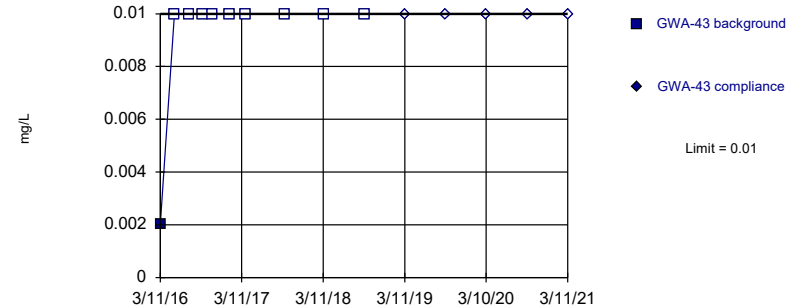


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Thallium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

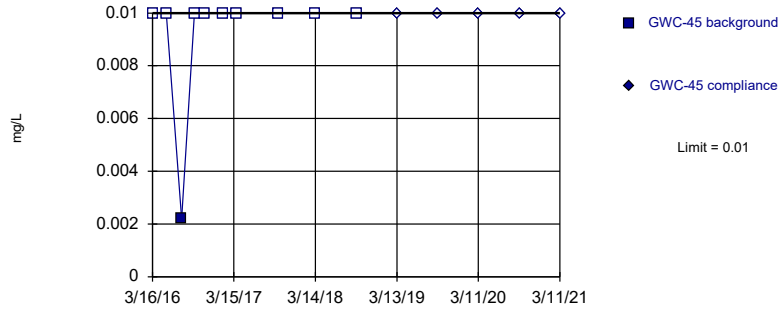


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

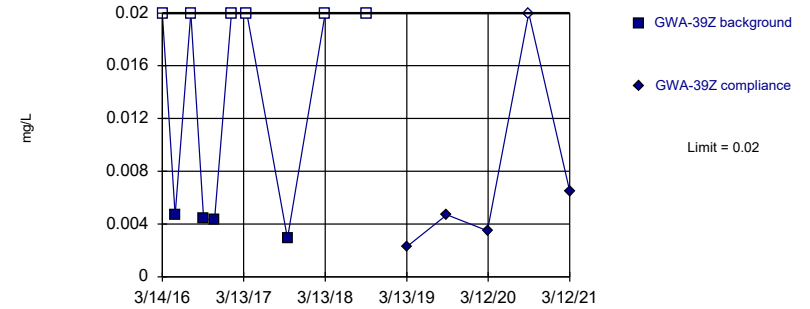


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Vanadium Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

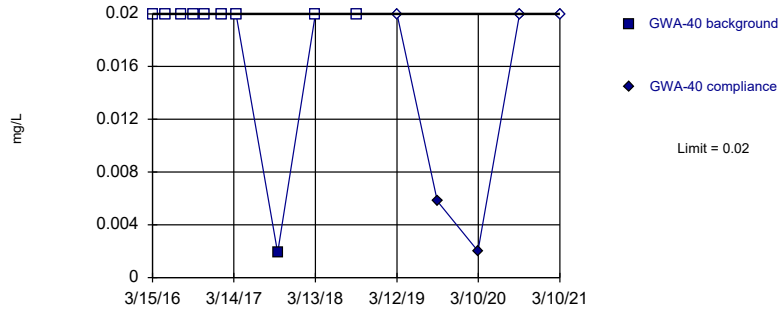


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 60% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

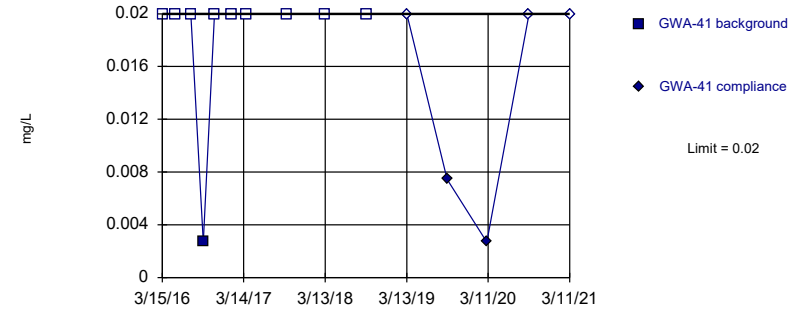


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
 Intrawell Non-parametric

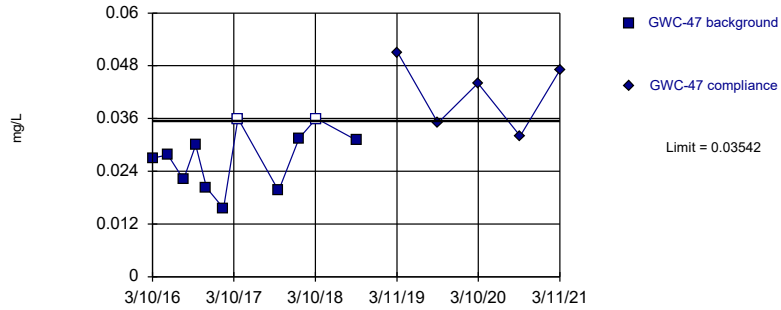


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 10 background values. 90% NDs. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

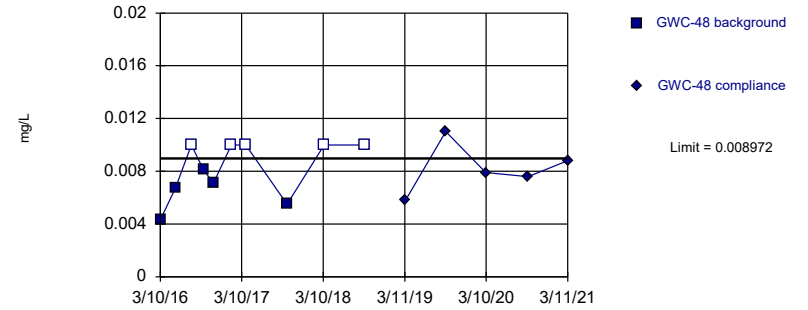


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.02497, Std. Dev.=0.005411, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9437, critical = 0.792. Kappa = 1.933 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

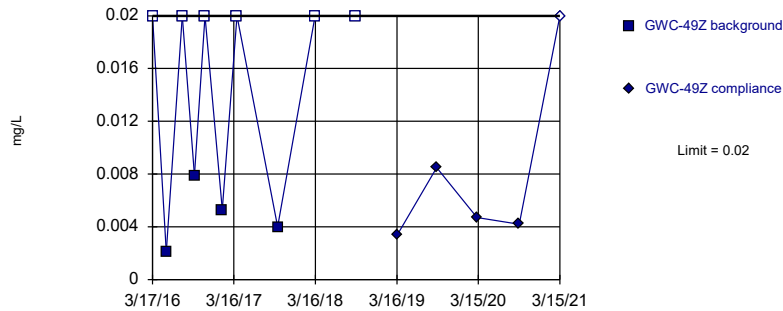


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.006348, Std. Dev.=0.001312, n=10, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8225, critical = 0.781. Kappa = 2 (c=15, w=5, 1 of 3, event alpha = 0.05132). Report alpha = 0.0007022.

Constituent: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
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: Zinc Analysis Run 4/29/2021 10:59 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.0003 (J)
3/12/2021		0.0039

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/11/2020		<0.003
3/10/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.003	
5/12/2016	<0.003	
7/20/2016	<0.003	
9/15/2016	<0.003	
11/3/2016	<0.003	
1/18/2017	<0.003	
3/24/2017	<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		<0.003
9/10/2019		<0.003 (D)
3/6/2020		<0.003
9/10/2020		<0.003
3/11/2021		0.00038 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.003
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		<0.003
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.0076
12/15/2020		0.0014 (J)
3/11/2021		0.00062 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		<0.003
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		<0.003
3/11/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0017 (J)
3/15/2021		0.00086 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.005
3/12/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/11/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.0042 (J)
3/12/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.0079 (J)
3/10/2021		0.0083

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		0.024
3/11/2021		0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.0059 (J)
3/11/2021		0.0061

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/11/2020		0.024
3/11/2021		0.0096

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/15/2020		0.035
3/11/2021		0.046

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.006 (J)
3/11/2021		0.0059

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0082 (J)
3/11/2021		0.0083

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		0.035
3/11/2021		0.038

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0027 (J)
3/15/2021		0.0028 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.00014 (J)
3/11/2021		0.00015 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
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	
3/14/2018	<0.0005	
9/12/2018	<0.0005	
3/13/2019		<0.0005
9/11/2019		<0.0005
3/9/2020		<0.0005
9/11/2020		6.9E-05 (J)
3/11/2021		<0.0005

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/15/2020		5.7E-05 (J)
3/11/2021		6.4E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.00033 (J)
3/11/2021		0.00033 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.0005	
5/11/2016	0.000177 (J)	
7/19/2016	0.0001 (J)	
9/15/2016	8E-05 (J)	
11/2/2016	<0.0005	
1/18/2017	<0.0005	
3/28/2017	<0.0005	
6/7/2017	<0.0005	
9/26/2017	<0.0005	
3/14/2018	<0.0005	
9/12/2018	<0.0005	
3/15/2019		<0.0005
9/9/2019		<0.0005
3/9/2020		<0.0005
9/10/2020		<0.0005
3/12/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.00015 (J)
3/11/2021		0.00017 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
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	8E-05 (J)	
9/22/2017	<0.0005	
3/14/2018	<0.0005	
9/12/2018	<0.0005	
3/13/2019		<0.0005
9/11/2019		<0.0005
3/9/2020		<0.0005
9/11/2020		<0.0005
3/11/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-44	GWC-44
3/16/2016	<0.0005	
5/16/2016	<0.0005	
7/25/2016	<0.0005	
9/19/2016	<0.0005	
11/3/2016	<0.0005	
1/19/2017	<0.0005	
3/28/2017	<0.0005	
6/5/2017	8E-05 (J)	
9/26/2017	<0.0005	
3/15/2018	<0.0005	
9/12/2018	<0.0005	
3/14/2019		<0.0005
9/11/2019		<0.0005
3/10/2020		<0.0005
9/15/2020		<0.0005
3/11/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.00014 (J)
3/11/2021		0.00018 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.00019 (J)
3/11/2021		0.00021 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	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	<0.0005	
3/19/2019		<0.0005
9/11/2019		<0.0005
3/9/2020		<0.0005
9/14/2020		<0.0005
3/15/2021		<0.0005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.01
3/12/2021		0.00064 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		<0.01
3/10/2021		0.00075 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.01
3/11/2021		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/19/2016	<0.005	
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		0.00045 (J)
9/10/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0004 (J)	
9/22/2017	0.0008 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		0.00051 (J)
3/9/2020		0.0033 (J)
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/19/2017	<0.005	
3/28/2017	<0.005	
6/5/2017	<0.005	
9/26/2017	<0.005	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		0.00074 (J)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/19/2016	<0.005	
11/4/2016	<0.005	
1/23/2017	<0.005	
3/29/2017	<0.005	
6/7/2017	<0.005	
9/27/2017	<0.005	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		<0.005
3/10/2020		0.0007 (J)
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0022 (J)
3/11/2021		0.0013 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0024 (J)
3/11/2021		0.0021 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	0.017 (J)	
5/18/2016	<0.005	
7/28/2016	0.0014 (J)	
9/21/2016	0.0009 (J)	
11/7/2016	<0.005	
1/24/2017	<0.005	
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		0.0017 (J)
9/11/2019		0.002 (J)
3/9/2020		0.00096 (J)
9/14/2020		<0.005
3/15/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
3/15/2019		<0.005
9/9/2019		<0.005
3/9/2020		0.00075 (J)
9/10/2020		<0.005
3/12/2021		0.00079 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0004 (J)	
9/19/2016	<0.005	
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		0.00039 (J)
9/10/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/22/2017	<0.005	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		<0.005
3/9/2020		0.00039 (J)
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/15/2020		0.0015 (J)
3/11/2021		0.0016 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.0012 (J)
3/11/2021		0.0011 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0017 (J)
3/11/2021		0.0025 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0014 (J)
3/15/2021		0.00056 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0005 (J)	
9/15/2016	<0.005	
11/2/2016	<0.005	
1/18/2017	<0.005	
3/28/2017	<0.005 (*)	
9/26/2017	0.0005 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/15/2019		<0.005
9/9/2019		<0.005
3/9/2020		0.0007 (J)
9/10/2020		<0.005
3/12/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	
9/26/2017	<0.005	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/9/2019		0.0022 (J)
3/9/2020		<0.005
9/11/2020		<0.005
3/10/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0007 (J)	
11/3/2016	<0.005	
1/18/2017	<0.005	
3/24/2017	<0.005	
9/25/2017	0.0003 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/10/2019		0.00038 (JD)
3/6/2020		0.00093 (J)
9/10/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/19/2016	0.003 (J)	
11/3/2016	<0.005	
1/17/2017	<0.005	
3/27/2017	<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		0.00019 (J)
9/10/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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 (*)	
9/22/2017	0.0004 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		0.00036 (J)
3/9/2020		0.00035 (J)
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0005 (J)	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/19/2017	<0.005	
3/28/2017	<0.005 (*)	
9/26/2017	0.0006 (J)	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/11/2019		0.00043 (J)
3/10/2020		0.00067 (J)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
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	<0.005	
9/13/2018	<0.005	
3/14/2019		<0.005
9/11/2019		0.012 (J)
3/10/2020		0.00031 (J)
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0011 (J)	
11/7/2016	<0.005	
1/23/2017	<0.005	
3/29/2017	0.0003 (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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0018 (J)	
11/4/2016	<0.005	
1/23/2017	<0.005	
3/28/2017	<0.005 (*)	
9/29/2017	0.0003 (J)	
3/15/2018	<0.005	
9/13/2018	<0.005	
3/15/2019		<0.005
9/11/2019		0.000535 (JD)
3/9/2020		0.00035 (J)
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0007 (J)	
9/21/2016	0.0018 (J)	
11/7/2016	<0.005	
1/24/2017	<0.005	
3/30/2017	0.0003 (J)	
9/29/2017	<0.005	
3/15/2018	<0.005	
9/14/2018	<0.005	
3/19/2019		<0.005
9/11/2019		0.00021 (J)
3/9/2020		0.00035 (J)
9/14/2020		<0.005
3/15/2021		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		<0.005
3/12/2021		0.0002 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0001 (J)	
9/26/2017	0.0001 (J)	
3/14/2018	0.00046 (J)	
9/12/2018	<0.001	
3/13/2019		<0.001
9/9/2019		<0.001
3/9/2020		9.5E-05 (J)
9/11/2020		<0.001
3/10/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.001	
5/12/2016	<0.001	
7/20/2016	<0.001	
9/15/2016	<0.001	
11/3/2016	<0.001	
1/18/2017	<0.001	
3/24/2017	<0.001	
6/6/2017	<0.001	
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 (D)
3/6/2020		9.1E-05 (J)
9/10/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0001 (J)	
9/19/2016	0.0002 (J)	
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		0.00011 (J)
9/10/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		4.6E-05 (J)
3/11/2021		6.3E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/15/2020		0.00045 (J)
3/11/2021		0.00053 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.00012 (J)
3/11/2021		0.00012 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		<0.005
3/11/2021		4.8E-05 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.001	
9/20/2016	0.0002 (J)	
11/4/2016	<0.001	
1/23/2017	<0.001	
3/28/2017	<0.001 (*)	
6/8/2017	<0.001	
9/29/2017	<0.001	
3/15/2018	<0.001	
9/13/2018	<0.001	
3/15/2019		<0.001
9/11/2019		0.002529 (D)
3/9/2020		<0.001
9/14/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		7.8E-05 (J)
3/15/2021		4.6E-05 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.0002	
5/11/2016	<0.0002	
7/21/2016	<0.0002	
9/15/2016	<0.0002	
11/3/2016	<0.0002	
1/17/2017	<0.0002	
3/24/2017	<0.0002	
5/24/2017	<0.0002	
9/26/2017	<0.0002	
3/14/2018	<0.0002	
9/12/2018	3.8E-05 (J)	
3/13/2019		<0.0002
9/9/2019		<0.0002
3/9/2020		<0.0002
9/11/2020		<0.0002
3/10/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42	GWA-42
3/11/2016	<0.0002	
5/16/2016	<0.0002	
7/22/2016	<0.0002	
9/19/2016	<0.0002	
11/3/2016	<0.0002	
1/17/2017	<0.0002	
3/27/2017	<0.0002	
6/7/2017	<0.0002	
9/26/2017	<0.0002	
3/14/2018	<0.0002	
9/14/2018	3.8E-05 (J)	
3/14/2019		<0.0002
9/10/2019		<0.0002
3/6/2020		<0.0002
9/10/2020		<0.0002
3/11/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		0.00015 (J)
3/11/2021		0.0002 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.0002	
5/18/2016	<0.0002	
7/28/2016	<0.0002	
9/21/2016	<0.0002	
11/7/2016	<0.0002	
1/24/2017	5E-05 (J)	
3/30/2017	<0.0002 (*)	
6/9/2017	<0.0002	
9/29/2017	<0.0002	
3/15/2018	<0.0002	
9/14/2018	<0.0002	
3/19/2019		4.5E-05 (J)
9/11/2019		<0.0002
3/9/2020		<0.0002
9/14/2020		<0.0002
3/15/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.01
3/12/2021		0.0015 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0006 (J)	
9/15/2016	0.0009 (J)	
11/3/2016	0.0011 (J)	
1/18/2017	0.0007 (J)	
3/24/2017	<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		0.0004 (JD)
3/6/2020		0.0089 (J)
9/10/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		0.0011 (J)
3/11/2021		0.0011 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.00288 (J)	
5/13/2016	<0.005	
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	<0.005 (*)	
9/22/2017	0.0007 (J)	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		0.00082 (J)
3/9/2020		0.00082 (J)
9/11/2020		0.00089 (J)
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0006 (J)	
9/19/2016	0.0008 (J)	
11/3/2016	0.0007 (J)	
1/19/2017	0.0009 (J)	
3/28/2017	<0.005 (*)	
9/26/2017	0.0007 (J)	
3/15/2018	<0.005	
9/12/2018	<0.005	
3/14/2019		<0.005
9/11/2019		0.00058 (J)
3/10/2020		0.00086 (J)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		0.00099 (J)
3/11/2021		0.00092 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0004 (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
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0046 (J)
3/11/2021		0.0047 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0014 (J)
3/15/2021		0.0013 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-43	GWA-43
3/11/2016	0.00236 (J)	
5/13/2016	<0.005	
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	<0.005	
9/22/2017	<0.005	
3/14/2018	<0.005	
9/12/2018	<0.005	
3/13/2019		<0.005
9/11/2019		<0.005
3/9/2020		<0.005
9/11/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.005	
9/19/2016	<0.005	
11/3/2016	<0.005	
1/19/2017	<0.005	
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	<0.005	
3/14/2019		0.0042 (J)
9/11/2019		0.0021 (J)
3/10/2020		0.0063 (J)
9/15/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	0.0009 (J)	
9/20/2016	<0.005	
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		<0.005 (D)
3/9/2020		<0.005
9/14/2020		<0.005
3/11/2021		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		<0.001
3/12/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/11/2020		<0.001
3/10/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/10/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/11/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/15/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		<0.001
3/11/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		<0.001
3/15/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/11/2020		<0.01
3/11/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I

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
9/11/2020		<0.01
3/11/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39Z	GWA-39Z
3/14/2016	<0.02	
5/11/2016	0.00467 (J)	
7/19/2016	<0.02 (*)	
9/15/2016	0.0044 (J)	
11/2/2016	0.0043 (J)	
1/18/2017	<0.02 (*)	
3/28/2017	<0.02 (*)	
9/26/2017	0.0029 (J)	
3/14/2018	<0.02	
9/12/2018	<0.02	
3/15/2019		0.0023 (J)
9/9/2019		0.0047 (J)
3/9/2020		0.0035 (J)
9/10/2020		<0.02
3/12/2021		0.0065 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-40	GWA-40
3/15/2016	<0.02	
5/11/2016	<0.02	
7/21/2016	<0.02 (*)	
9/15/2016	<0.02	
11/3/2016	<0.02	
1/17/2017	<0.02	
3/24/2017	<0.02 (*)	
9/26/2017	0.0019 (J)	
3/14/2018	<0.02	
9/12/2018	<0.02	
3/13/2019		<0.02
9/9/2019		0.0058 (J)
3/9/2020		0.002 (J)
9/11/2020		<0.02
3/10/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41	GWA-41
3/15/2016	<0.02	
5/12/2016	<0.02	
7/20/2016	<0.02	
9/15/2016	0.0027 (J)	
11/3/2016	<0.02	
1/18/2017	<0.02 (*)	
3/24/2017	<0.02 (*)	
9/25/2017	<0.02	
3/14/2018	<0.02	
9/12/2018	<0.02	
3/14/2019		<0.02
9/10/2019		0.00745 (JD)
3/6/2020		0.0027 (J)
9/10/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/10/2020		0.0073 (J)
3/11/2021		0.0089 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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	<0.02 (*)	
9/16/2016	0.0023 (J)	
11/2/2016	0.0047 (J)	
1/18/2017	<0.02	
3/28/2017	<0.02 (*)	
9/22/2017	0.0013 (J)	
3/14/2018	<0.02	
9/12/2018	<0.02	
3/13/2019		0.0022 (J)
9/11/2019		0.0065 (J)
3/9/2020		0.002 (J)
9/11/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/15/2020		0.0062 (J)
3/11/2021		0.004 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-45	GWC-45
3/16/2016	0.00599 (J)	
5/16/2016	<0.02	
7/25/2016	<0.02 (*)	
9/19/2016	0.0061 (J)	
11/4/2016	0.0032 (J)	
1/23/2017	0.0031 (J)	
3/29/2017	<0.02 (*)	
9/27/2017	0.0048 (J)	
3/15/2018	<0.02	
9/13/2018	<0.02	
3/14/2019		<0.02
9/11/2019		0.0065 (J)
3/10/2020		0.0031 (J)
9/11/2020		<0.02
3/11/2021		<0.02

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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
9/14/2020		0.032
3/11/2021		0.047

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
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)
9/14/2020		0.0076 (J)
3/11/2021		0.0088 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:07 AM View: Overburden - Appendix I
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-49Z	GWC-49Z
3/17/2016	<0.02	
5/18/2016	0.00208 (J)	
7/28/2016	<0.02 (*)	
9/21/2016	0.0079 (J)	
11/7/2016	<0.02 (*)	
1/24/2017	0.0053 (J)	
3/30/2017	<0.02 (*)	
9/29/2017	0.004 (J)	
3/15/2018	<0.02	
9/14/2018	<0.02	
3/19/2019		0.0034 (J)
9/11/2019		0.0085 (J)
3/9/2020		0.0047 (J)
9/14/2020		0.0042 (J)
3/15/2021		<0.02

FIGURE H.

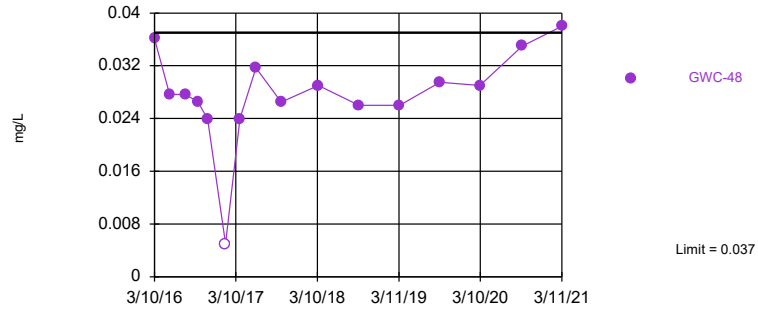
Appendix I Overburden Interwell Prediction Limits - All Results (All Significant)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-48	0.037	n/a	3/11/2021	0.038	Yes	79	n/a	n/a	2.532	n/a	n/a	0.00001139	NP (normality) 1 of 3
Zinc (mg/L)	GWC-47	0.02	n/a	3/11/2021	0.047	Yes	75	n/a	n/a	56	n/a	n/a	0.00001347	NP (NDs) 1 of 3

Exceeds Limit: GWC-48

Prediction Limit
 Interwell Non-parametric

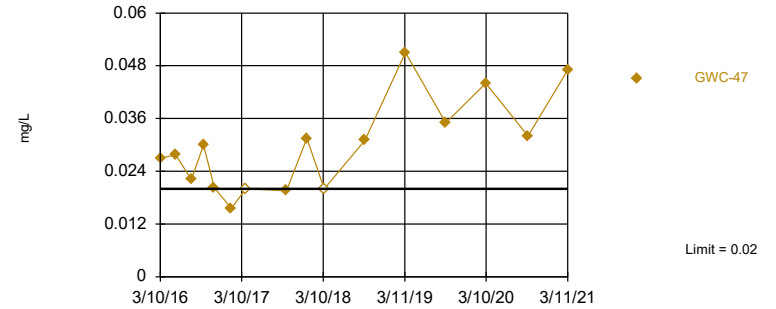


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 79 background values. 2.532% NDs. Annual per-constituent alpha = 0.0001139. Individual comparison alpha = 0.00001139 (1 of 3). Assumes 4 future values.

Constituent: Barium Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit: GWC-47

Prediction Limit
 Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 75 background values. 56% NDs. Annual per-constituent alpha = 0.0001347. Individual comparison alpha = 0.00001347 (1 of 3). Assumes 4 future values.

Constituent: Zinc Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)	GWA-40 (bg)
3/10/2016	0.0361					
3/11/2016		0.00639 (J)	0.0116			
3/14/2016				<0.01		
3/15/2016					0.0291	<3 (o)
5/11/2016				0.00793 (J)		0.00992 (J)
5/12/2016					0.0322	
5/13/2016			0.0361			
5/16/2016		0.00622 (J)				
5/17/2016	0.0277					
7/19/2016			0.036	0.0045 (J)		
7/20/2016					0.0313	
7/21/2016						0.009 (J)
7/22/2016		0.0062 (J)				
7/27/2016	0.0276					
9/15/2016				0.0057 (J)	0.0217	0.0109
9/16/2016			0.0259			
9/19/2016		0.0064 (J)				
9/20/2016	0.0266					
11/2/2016			0.037	0.0043 (J)		
11/3/2016		0.0058 (J)			0.0272	0.0115
11/4/2016	0.0239					
1/17/2017		0.0061 (J)				0.0101
1/18/2017			0.0248	<0.01 (*)	0.0286 (J)	
1/23/2017	<0.01					
3/24/2017					0.0307	0.0086 (J)
3/27/2017		0.0063 (J)				
3/28/2017	0.024		0.0222	0.0188		
5/24/2017						0.0087 (J)
6/6/2017			0.02		0.0242	
6/7/2017		0.0064 (J)		0.0273		
6/8/2017	0.0317					
9/22/2017			0.0179			
9/25/2017					0.0252	
9/26/2017		0.006 (J)		0.0236		0.0075 (J)
9/29/2017	0.0265					
3/14/2018		0.0065 (J)	0.016	0.027	0.021	0.0064 (J)
3/15/2018	0.029					
9/12/2018			0.017	0.022	0.025	0.0075 (J)
9/13/2018	0.026					
9/14/2018		0.0065 (J)				
3/13/2019			0.014			0.0076 (J)
3/14/2019		0.0066 (J)			0.028	
3/15/2019	0.026			0.019		
9/9/2019				0.015		0.0078 (J)
9/10/2019		0.0068 (J)			0.0195 (D)	
9/11/2019	0.0295 (D)		0.015			
3/6/2020		0.0066 (J)			0.022	
3/9/2020	0.029		0.012	0.0072 (J)		0.0088 (J)
9/10/2020		0.0059 (J)		0.0042 (J)	0.024	
9/11/2020			0.024			0.0079 (J)
9/14/2020	0.035					
3/10/2021						0.0083

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)	GWA-40 (bg)
3/11/2021	0.038	0.0061	0.0096		0.024	
3/12/2021				0.014		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)	GWA-40 (bg)
3/10/2016	0.027					
3/11/2016		0.00862 (J)	0.0093 (J)			
3/14/2016				<0.02		
3/15/2016					<0.02	<0.02
5/11/2016				0.00467 (J)		<0.02
5/12/2016					<0.02	
5/13/2016			0.00336 (J)			
5/16/2016		0.00744 (J)				
5/18/2016	0.0277					
7/19/2016			<0.02 (*)	<0.02 (*)		
7/20/2016					<0.02	
7/21/2016						<0.02 (*)
7/22/2016		<0.02 (*)				
7/27/2016	0.0221					
9/15/2016				0.0044 (J)	0.0027 (J)	<0.02
9/16/2016			0.0023 (J)			
9/19/2016		0.0162				
9/20/2016	0.03					
11/2/2016			0.0047 (J)	0.0043 (J)		
11/3/2016		0.011			<0.02	<0.02
11/7/2016	0.0202					
1/17/2017		0.0104				<0.02
1/18/2017			<0.02	<0.02 (*)	<0.02 (*)	
1/23/2017	0.0156					
3/24/2017					<0.02 (*)	<0.02 (*)
3/27/2017		<0.02 (*)				
3/28/2017			<0.02 (*)	<0.02 (*)		
3/29/2017	<0.02 (*)					
9/22/2017			0.0013 (J)			
9/25/2017					<0.02	
9/26/2017		0.0094 (J)		0.0029 (J)		0.0019 (J)
9/27/2017	0.0196					
12/28/2017	0.0315 (Y)					
3/14/2018		<0.02	<0.02	<0.02	<0.02	<0.02
3/15/2018	<0.02					
9/12/2018			<0.02	<0.02	<0.02	<0.02
9/13/2018	0.031					
9/14/2018		<0.02				
3/13/2019			0.0022 (J)			<0.02
3/14/2019		0.01			<0.02	
3/15/2019	0.051			0.0023 (J)		
9/9/2019				0.0047 (J)		0.0058 (J)
9/10/2019		0.014			0.00745 (JD)	
9/11/2019			0.0065 (J)			
9/12/2019	0.035					
3/6/2020		0.012			0.0027 (J)	
3/9/2020	0.044		0.002 (J)	0.0035 (J)		0.002 (J)
9/10/2020		0.0073 (J)		<0.02	<0.02	
9/11/2020			<0.02			<0.02
9/14/2020	0.032					
3/10/2021						<0.02
3/11/2021	0.047	0.0089 (J)	<0.02		<0.02	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/29/2021 11:09 AM View: Overburden - Appendix I Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47	GWA-42 (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)	GWA-40 (bg)
3/12/2021				0.0065 (J)		

FIGURE I.

Appendix I Overburden Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:15 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-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

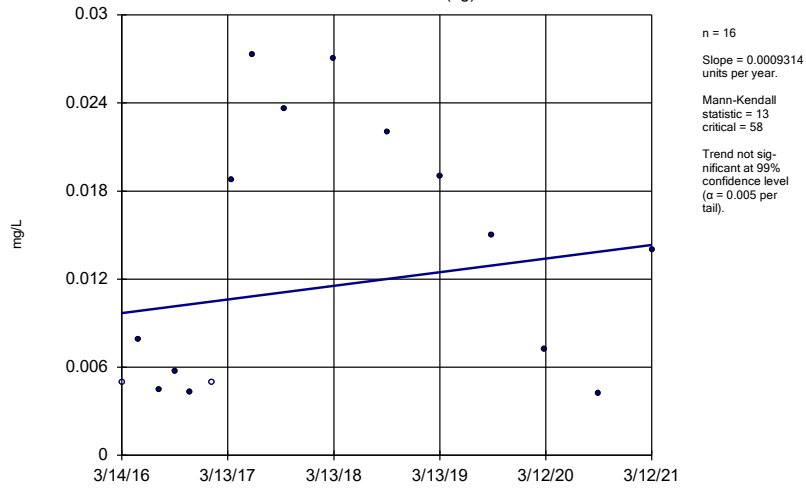
Appendix I Overburden Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 11:15 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39Z (bg)	0.0009314	13	58	No	16	12.5	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-40 (bg)	-0.0005076	-36	-53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41 (bg)	-0.001564	-55	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-42 (bg)	0.00006759	26	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-48	0.0009325	24	58	No	16	6.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-39Z (bg)	0	-12	-53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-40 (bg)	0	-17	-53	No	15	80	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-41 (bg)	0	-10	-53	No	15	80	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-42 (bg)	0	-1	-53	No	15	26.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-43 (bg)	0	6	53	No	15	46.67	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-47	0.004042	57	58	No	16	12.5	n/a	n/a	0.01	NP

Sen's Slope Estimator

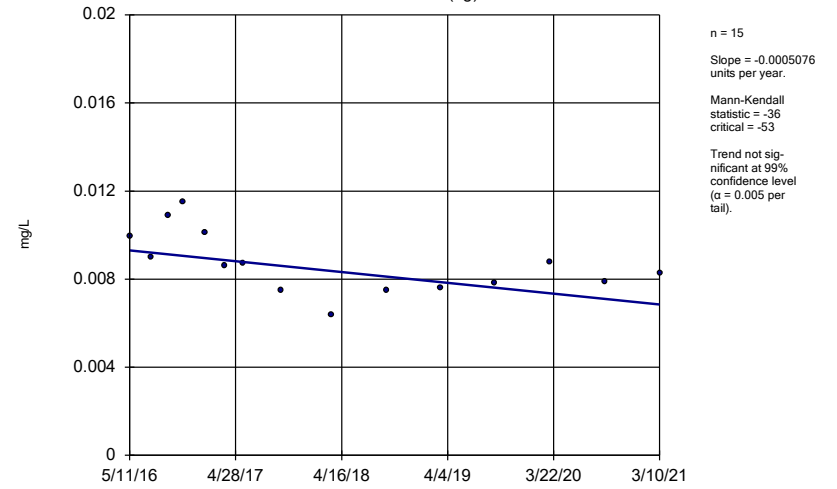
GWA-39Z (bg)



Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

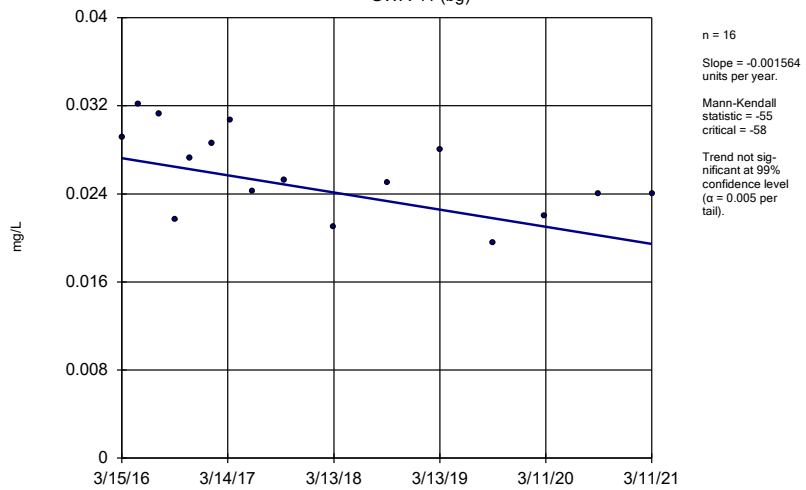
GWA-40 (bg)



Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

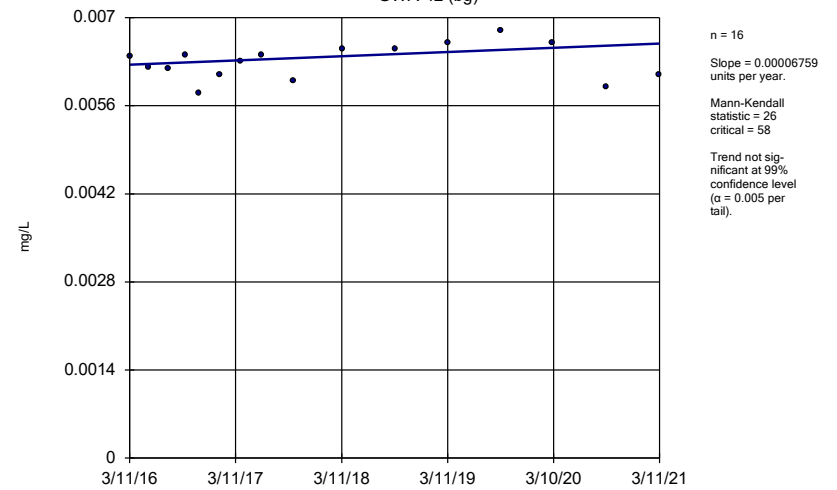
GWA-41 (bg)



Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

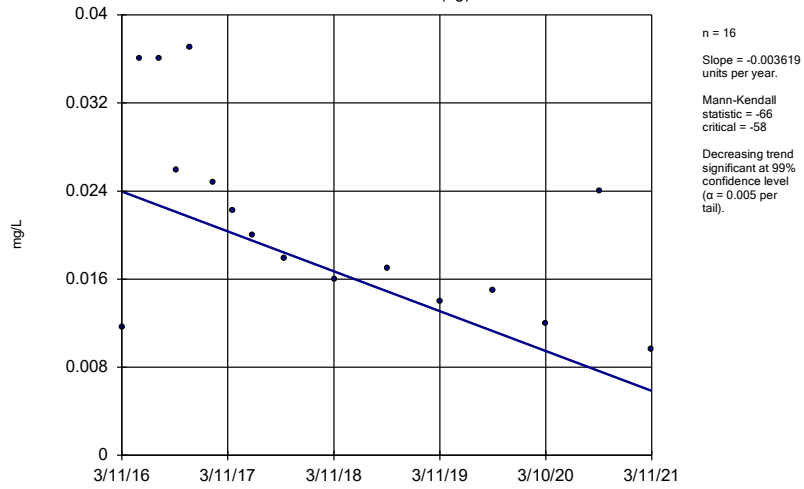
Sen's Slope Estimator

GWA-42 (bg)



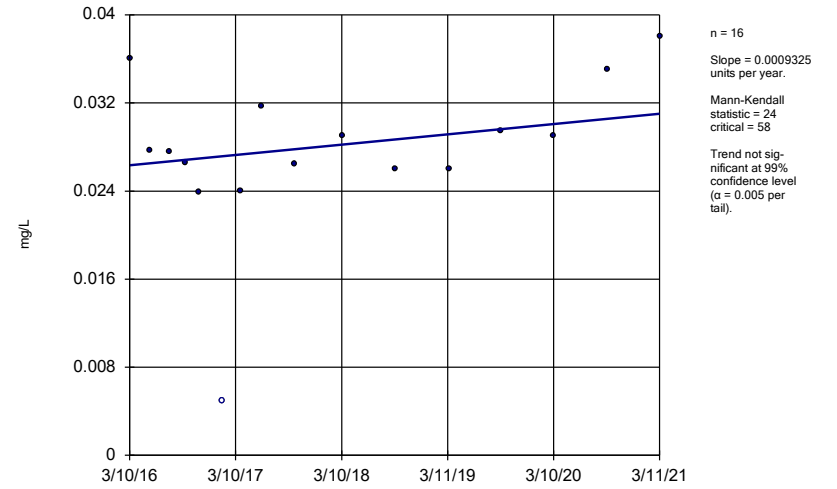
Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43 (bg)



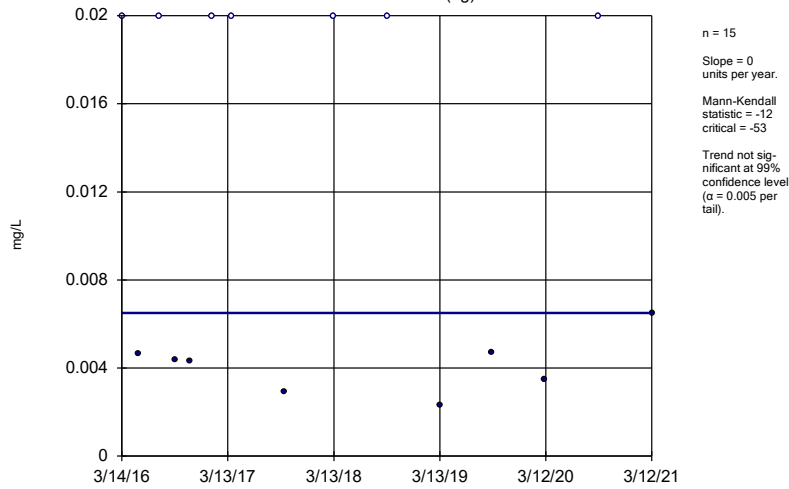
Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-48



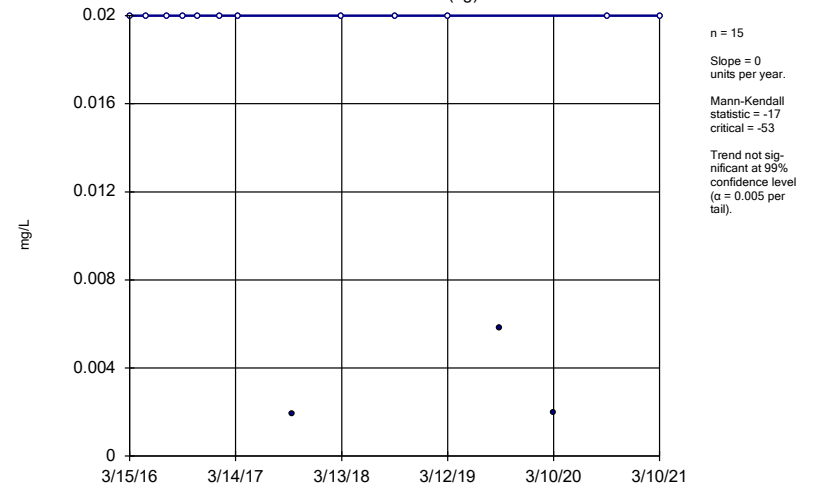
Constituent: Barium Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-39Z (bg)



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

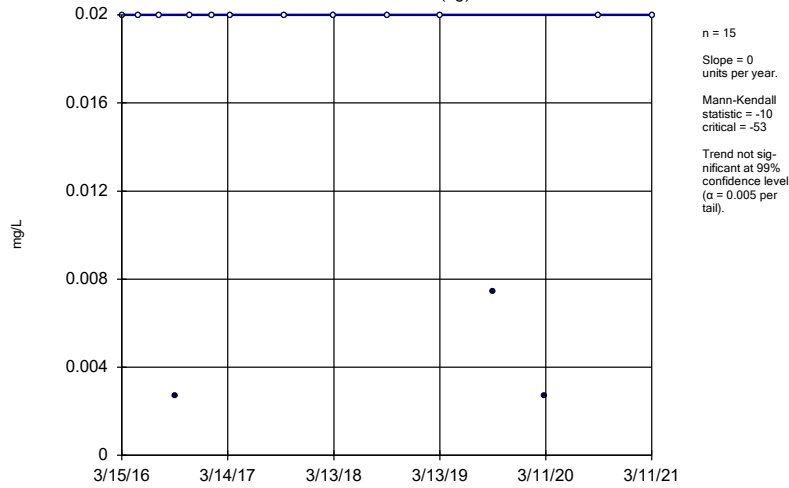
Sen's Slope Estimator
GWA-40 (bg)



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

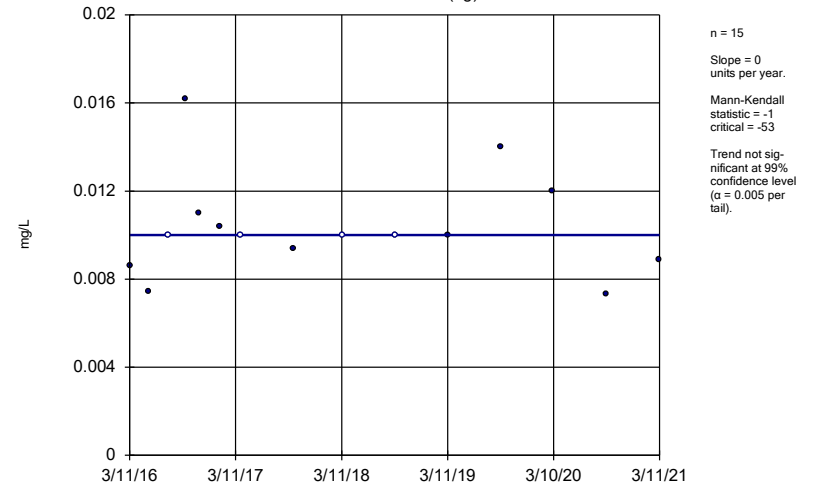
GWA-41 (bg)



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

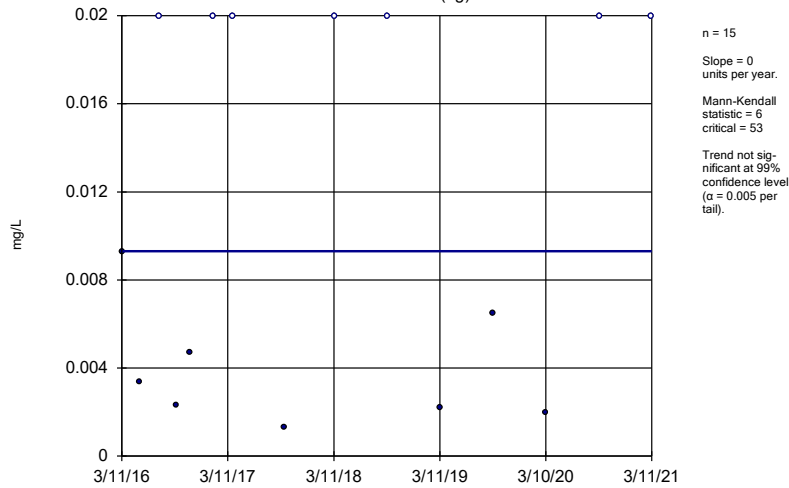
GWA-42 (bg)



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

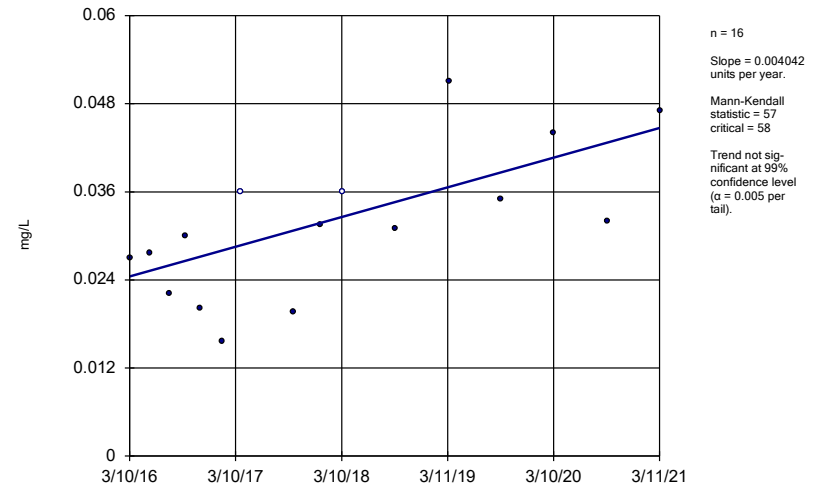
GWA-43 (bg)



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWC-47



Constituent: Zinc Analysis Run 4/29/2021 11:13 AM View: Overburden - Appendix I Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE J.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	41.57	n/a	3/11/2021	43.1	Yes	13	33.75	3.119	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/11/2021	4.5	Yes	13	2.572	0.4151	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/11/2021	4.2	Yes	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/11/2021	15.4	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-39RZ	41.66	n/a	3/16/2021	32.4	No	13	31.85	3.916	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-39Z	35.15	n/a	3/12/2021	11	No	14	14.39	8.463	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-40	28.9	n/a	3/10/2021	22.8	No	13	21.22	3.07	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-41	40.96	n/a	3/11/2021	25.9	No	13	18.11	9.126	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-41R	45.25	n/a	3/10/2021	40.3	No	13	33.5	4.693	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-42	35.5	n/a	3/11/2021	34.8	No	13	30.44	2.022	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-43	19.73	n/a	3/11/2021	2.1	No	13	7.587	4.85	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWA-43R	32.72	n/a	3/11/2021	31.2	No	14	28.45	1.742	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-44	16.95	n/a	3/11/2021	11.9	No	13	5.414	4.606	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-45	0.9609	n/a	3/11/2021	0.93J	No	13	0.9012	0.03156	0	None	sqrt(x)	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-45R	41.57	n/a	3/11/2021	43.1	Yes	13	33.75	3.119	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-46R	54.42	n/a	3/11/2021	45.2	No	13	44.5	3.96	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-47	30.67	n/a	3/11/2021	21.1	No	13	23.9	2.702	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-47R	38.32	n/a	3/11/2021	31.8	No	13	30.12	3.276	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-48	11.28	n/a	3/11/2021	5.9	No	13	1.729	0.6507	7.692	None	sqrt(x)	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-49R	31.53	n/a	3/15/2021	24.7	No	13	25.18	2.536	0	None	No	0.0008358	Param 1 of 2
Calcium (mg/L)	GWC-49Z	6.919	n/a	3/15/2021	0.69J	No	13	1.179	0.2903	0	None	x^(1/3)	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-39RZ	3.98	n/a	3/16/2021	1.3	No	13	2.48	0.5988	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-39Z	2.355	n/a	3/12/2021	1.2	No	13	1.633	0.2883	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-40	3.889	n/a	3/10/2021	0.97J	No	14	1.224	0.305	0	None	sqrt(x)	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-41	4.209	n/a	3/11/2021	1.5	No	13	2.027	0.8715	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-41R	6.223	n/a	3/10/2021	1.6	No	13	3.133	1.234	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-42	3.894	n/a	3/11/2021	2.5	No	13	2.763	0.4518	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-43	1.591	n/a	3/11/2021	1.3	No	13	1.329	0.1047	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWA-43R	5.573	n/a	3/11/2021	2.7	No	13	3.368	0.8802	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-44	9.945	n/a	3/11/2021	5.5	No	14	4.578	2.188	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-45	1.232	n/a	3/11/2021	0.83J	No	13	0.9601	0.1087	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-45R	4.3	n/a	3/11/2021	4	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Chloride (mg/L)	GWC-46R	3.019	n/a	3/11/2021	1.1	No	13	2.15	0.3467	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-47	3.019	n/a	3/11/2021	2.3	No	13	2.519	0.2	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-47R	3.021	n/a	3/11/2021	2.4	No	13	2.5	0.2079	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-48	3.612	n/a	3/11/2021	4.5	Yes	13	2.572	0.4151	0	None	No	0.0008358	Param 1 of 2
Chloride (mg/L)	GWC-49R	2.7	n/a	3/15/2021	1.2	No	13	n/a	n/a	0	n/a	n/a	0.009692	NP (normality) 1 of 2
Chloride (mg/L)	GWC-49Z	1.455	n/a	3/15/2021	0.98J	No	13	1.118	0.1348	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-39RZ	30.14	n/a	3/16/2021	3.5	No	13	12.5	7.045	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-39Z	9.678	n/a	3/12/2021	2	No	13	4.516	2.061	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-40	7.087	n/a	3/10/2021	1.5	No	14	1.363	0.5295	7.143	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-41	11.99	n/a	3/11/2021	6.1	No	13	1.385	0.3607	0	None	x^(1/3)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-41R	12.93	n/a	3/10/2021	8.4	No	13	5.16	3.101	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-42	2.644	n/a	3/11/2021	1.6	No	13	1.641	0.4006	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-43	2.037	n/a	3/11/2021	0.5ND	No	13	0.8393	0.4783	7.692	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWA-43R	10.71	n/a	3/11/2021	4.3	No	13	6.176	1.812	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-44	52.83	n/a	3/11/2021	35.5	No	13	17.74	14.01	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45	1.809	n/a	3/11/2021	0.5ND	No	13	0.7349	0.4287	15.38	Kaplan-Meier	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-45R	4.171	n/a	3/11/2021	4.2	Yes	13	1.678	0.1456	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-46R	9.593	n/a	3/11/2021	6.7	No	13	6.725	1.145	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-47	5.618	n/a	3/11/2021	4.7	No	13	4.287	0.5315	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-47R	16.1	n/a	3/11/2021	10.4	No	13	9.164	2.771	0	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	3.856	n/a	3/11/2021	15.4	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-49R	6.225	n/a	3/15/2021	2.6	No	14	1.88	0.2508	0	None	sqrt(x)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-49Z	10.28	n/a	3/15/2021	1.5	No	13	0.9416	0.5543	0	None	ln(x)	0.0008358	Param 1 of 2

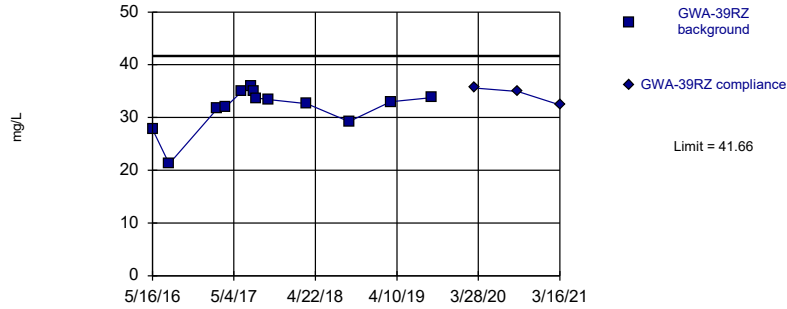
Appendix III Intrawell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids (mg/l)	GWA-39RZ	264.6	n/a	3/16/2021	142	No	13	170.3	37.67	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-39Z	175.8	n/a	3/12/2021	55	No	12	77	38.66	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-40	161.4	n/a	3/10/2021	60	No	13	107.8	21.41	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-41	200.2	n/a	3/11/2021	101	No	13	85.46	45.83	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-41R	247.5	n/a	3/10/2021	148	No	13	156	36.55	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-42	187.7	n/a	3/11/2021	109	No	13	135.9	20.69	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-43	90.21	n/a	3/11/2021	14	No	13	40.62	19.8	23.08	Kaplan-Meier	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWA-43R	179.1	n/a	3/11/2021	98	No	13	141	15.22	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-44	190.9	n/a	3/11/2021	43	No	14	3.427	0.9504	21.43	Kaplan-Meier	x^(1/3)	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-45	39	n/a	3/11/2021	12	No	13	n/a	n/a	53.85	n/a	n/a	0.009692	NP (NDs) 1 of 2
Total Dissolved Solids (mg/l)	GWC-45R	226.6	n/a	3/11/2021	167	No	13	158.7	27.13	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-46R	293.7	n/a	3/11/2021	209	No	13	234.8	23.52	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-47	171.4	n/a	3/11/2021	106	No	13	127.8	17.38	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-47R	187.7	n/a	3/11/2021	143	No	13	154.5	13.26	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-48	62.49	n/a	3/11/2021	40	No	13	4.798	1.241	30.77	Kaplan-Meier	sqrt(x)	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-49R	196.3	n/a	3/15/2021	107	No	13	126.6	27.83	0	None	No	0.0008358	Param 1 of 2
Total Dissolved Solids (mg/l)	GWC-49Z	63.44	n/a	3/15/2021	30	No	13	31.4	12.79	23.08	Kaplan-Meier	No	0.0008358	Param 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

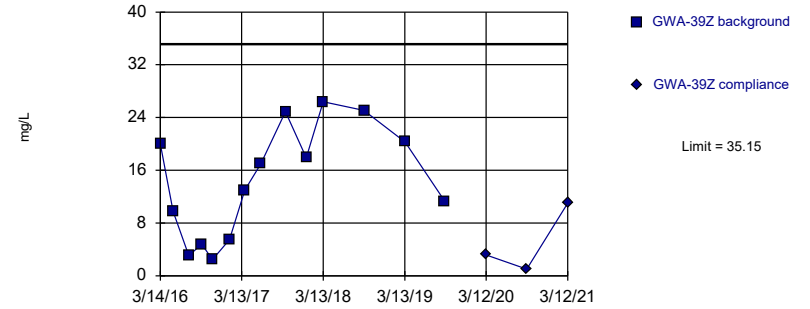


Background Data Summary: Mean=31.85, Std. Dev.=3.916, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.815, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

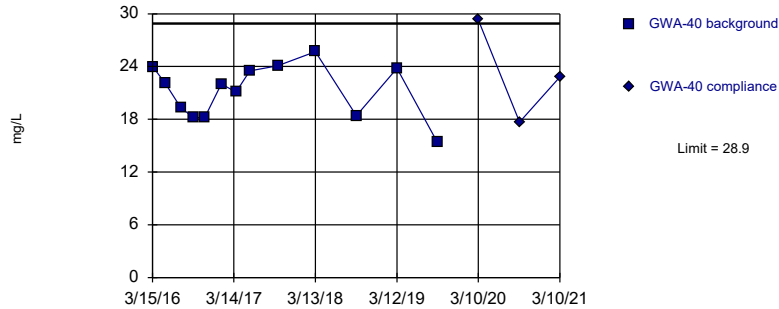


Background Data Summary: Mean=14.39, Std. Dev.=8.463, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

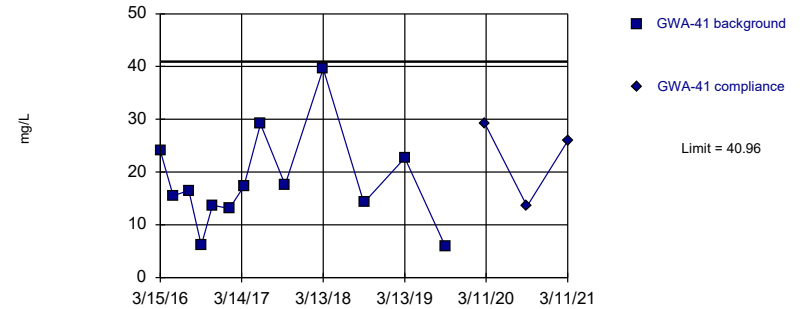


Background Data Summary: Mean=21.22, Std. Dev.=3.07, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9413, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

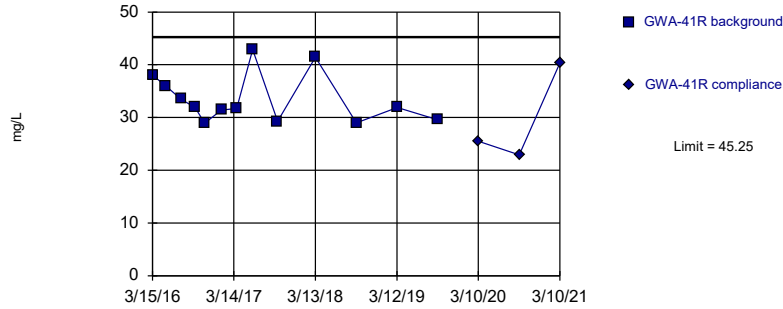


Background Data Summary: Mean=18.11, Std. Dev.=9.126, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.918, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

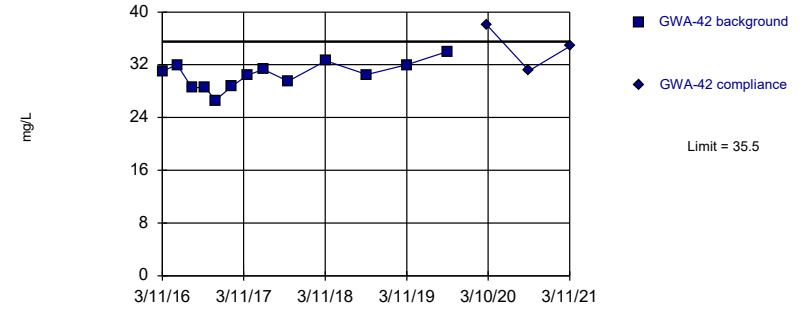


Background Data Summary: Mean=33.5, Std. Dev.=4.693, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8579, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

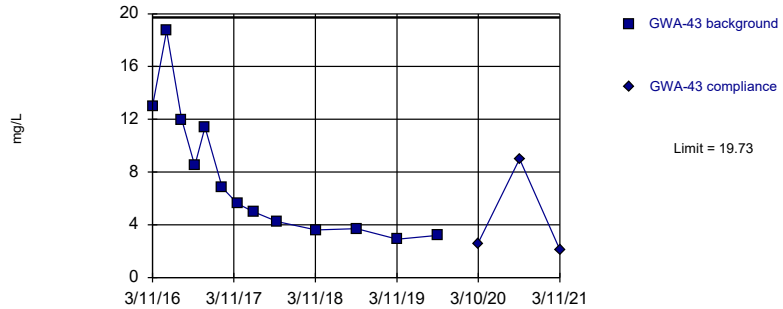


Background Data Summary: Mean=30.44, Std. Dev.=2.022, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

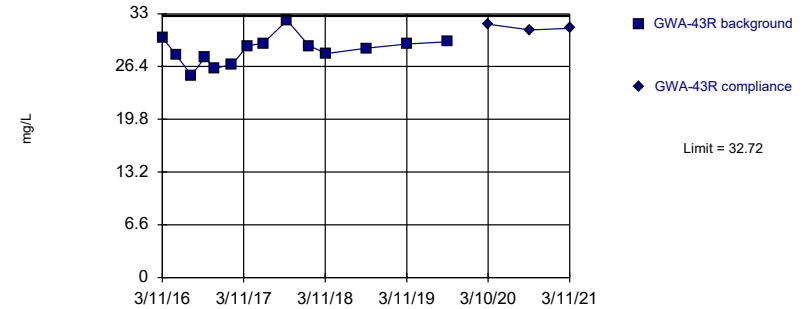


Background Data Summary: Mean=7.587, Std. Dev.=4.85, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8654, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:46 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

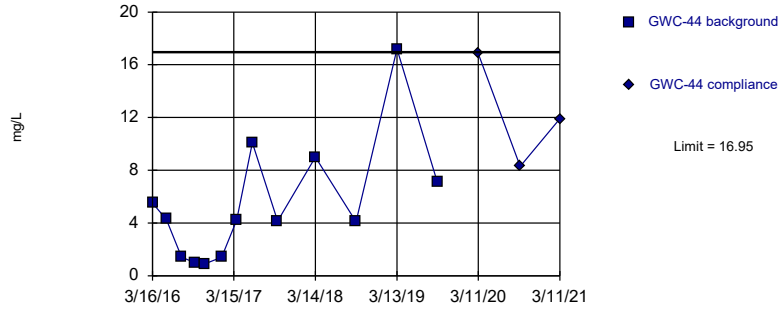


Background Data Summary: Mean=28.45, Std. Dev.=1.742, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9665, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

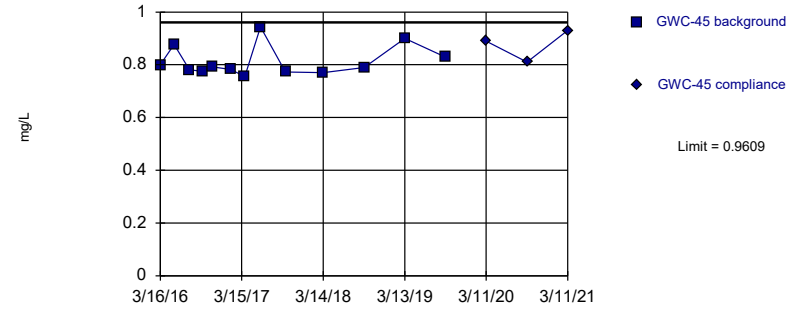


Background Data Summary: Mean=5.414, Std. Dev.=4.606, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8525, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

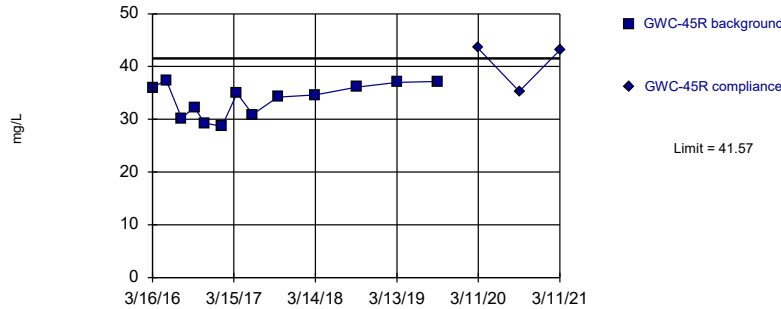


Background Data Summary (based on square root transformation): Mean=0.9012, Std. Dev.=0.03156, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8186, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

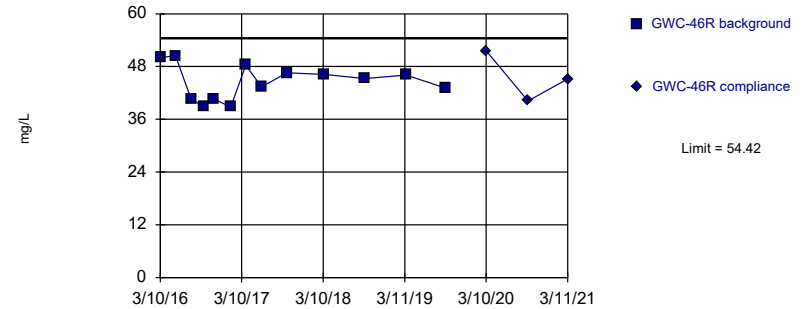


Background Data Summary: Mean=33.75, Std. Dev.=3.119, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

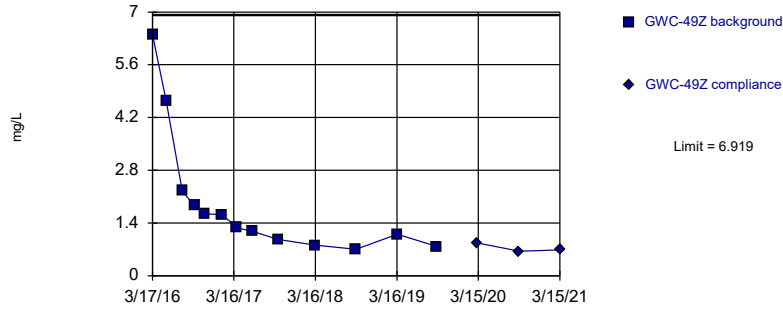


Background Data Summary: Mean=44.5, Std. Dev.=3.96, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9427, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

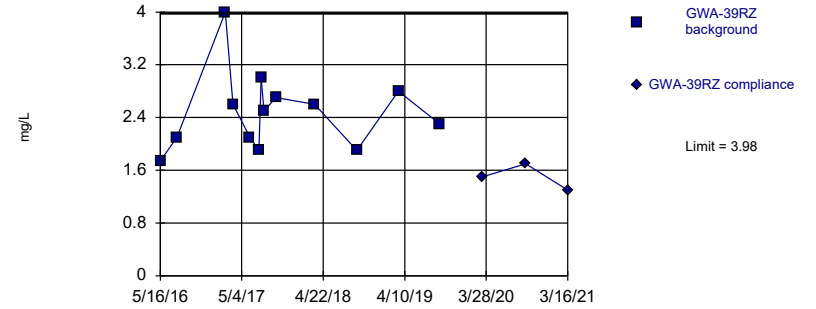


Background Data Summary (based on cube root transformation): Mean=1.179, Std. Dev.=0.2903, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8413, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Calcium Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

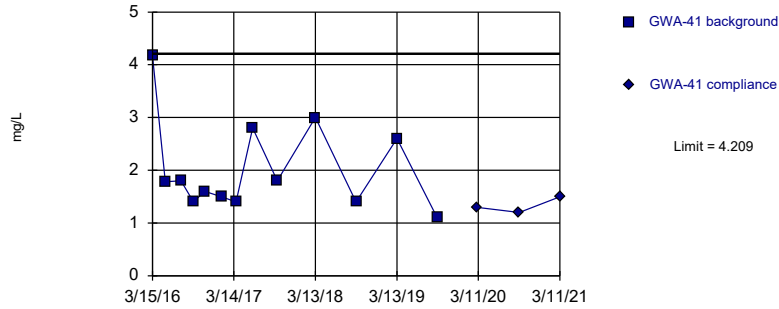
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit Intrawell Parametric

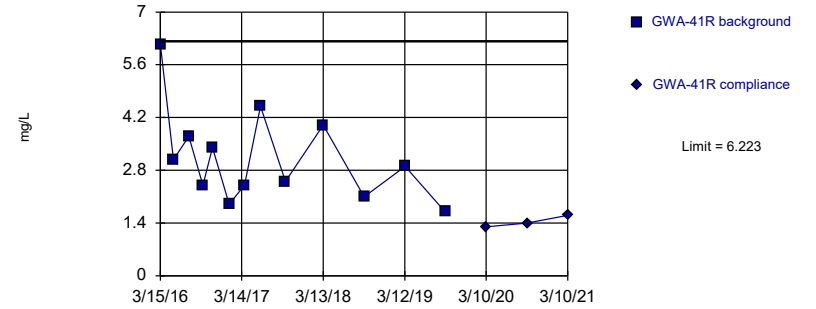


Background Data Summary: Mean=2.027, Std. Dev.=0.8715, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8369, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Parametric

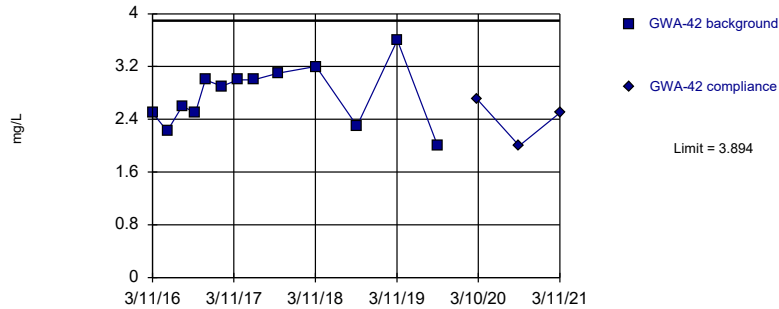


Background Data Summary: Mean=3.133, Std. Dev.=1.234, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9062, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit Intrawell Parametric

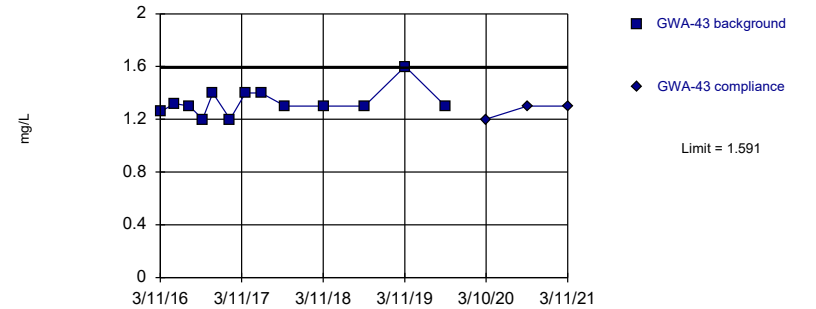


Background Data Summary: Mean=2.763, Std. Dev.=0.4518, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

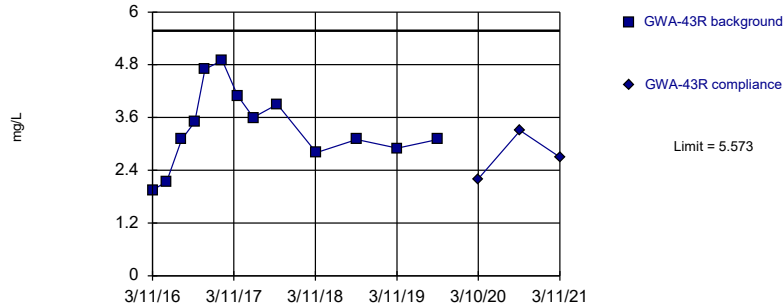
Within Limit

Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

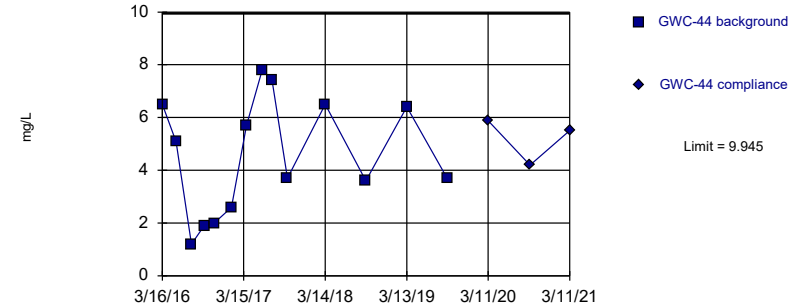


Background Data Summary: Mean=3.368, Std. Dev.=0.8802, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9646, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

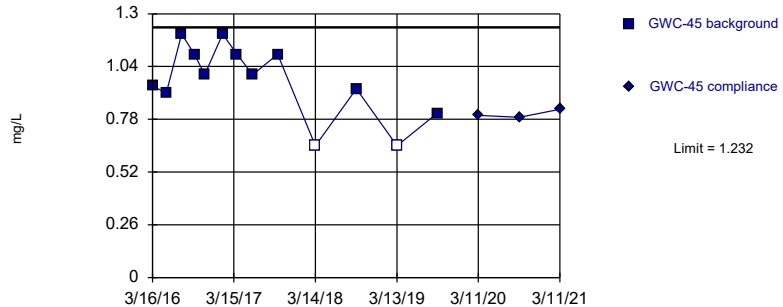


Background Data Summary: Mean=4.578, Std. Dev.=2.188, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.935, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

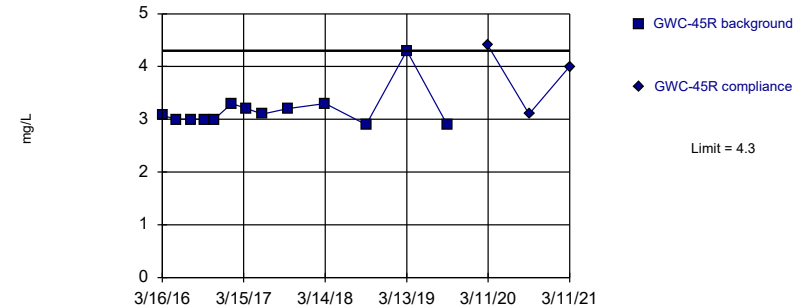


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.9601, Std. Dev.=0.1087, n=13, 15.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9175, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

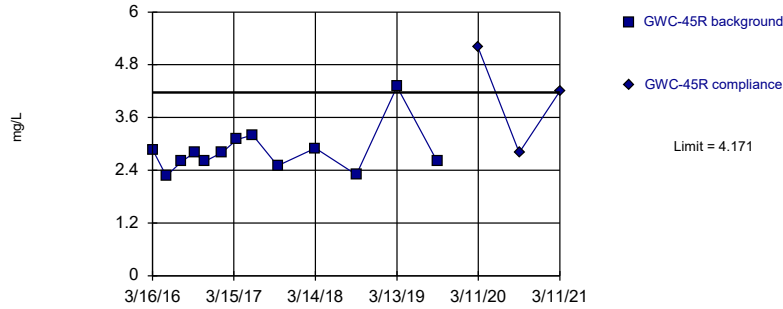


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Chloride Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

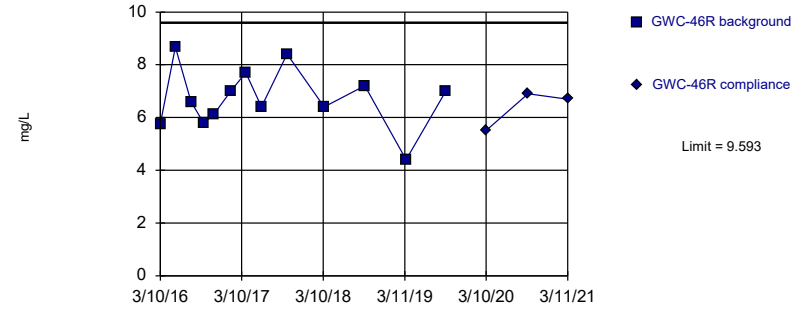


Background Data Summary (based on square root transformation): Mean=1.678, Std. Dev.=0.1456, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.852, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Sulfate Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

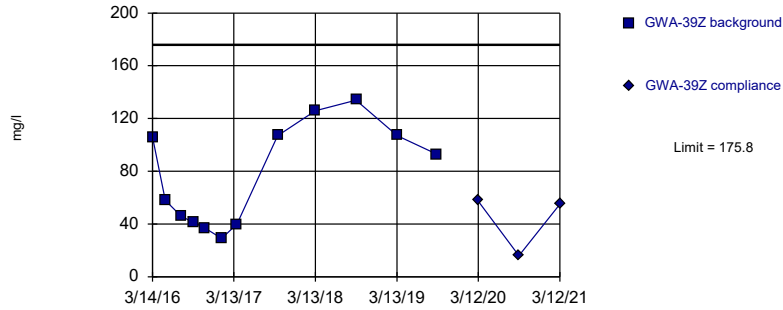
Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.725, Std. Dev.=1.145, n=13. Normality test: Shapiro Wilk @

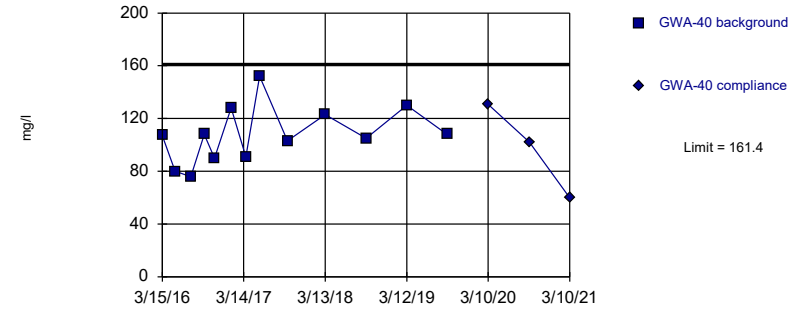
Within Limit Prediction Limit
Intrawell Parametric



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.

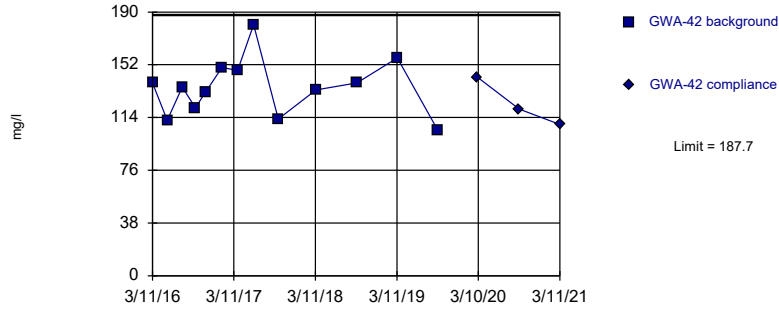
Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Parametric

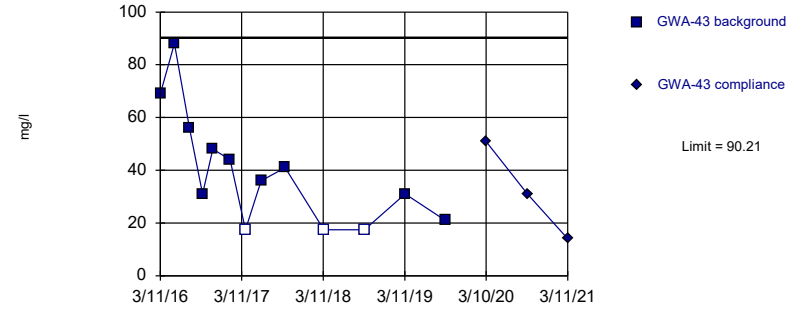


Background Data Summary: Mean=135.9, Std. Dev.=20.69, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

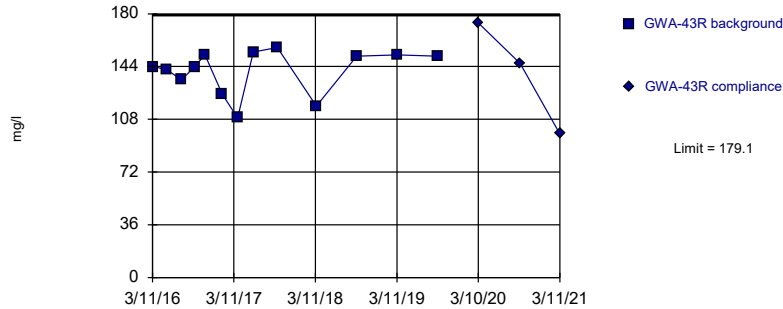


Background Data Summary (after Kaplan-Meier Adjustment): Mean=40.62, Std. Dev.=19.8, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9041, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

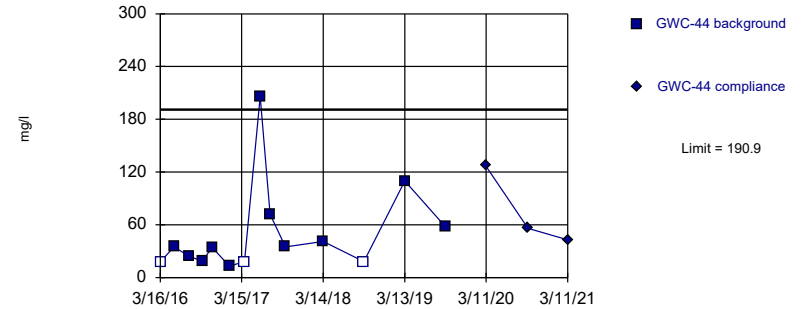


Background Data Summary: Mean=141, Std. Dev.=15.22, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8575, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

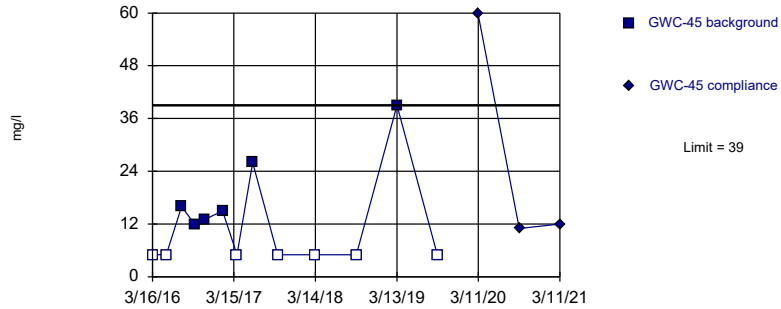


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=3.427, Std. Dev.=0.9504, n=14, 21.43% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8593, critical = 0.825. Kappa = 2.453 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:47 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

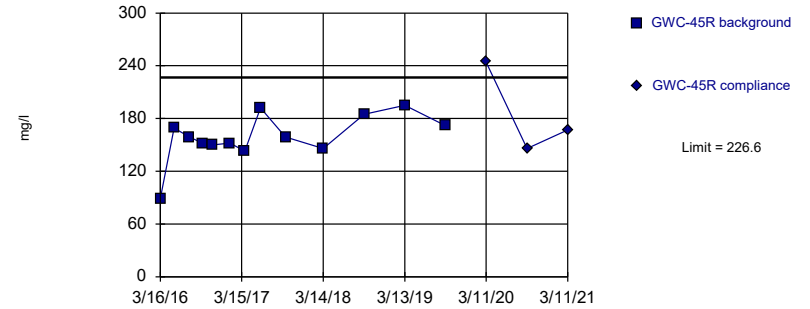


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

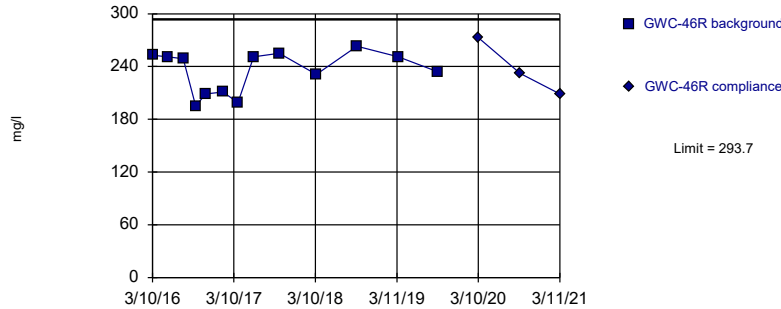


Background Data Summary: Mean=158.7, Std. Dev.=27.13, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8868, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

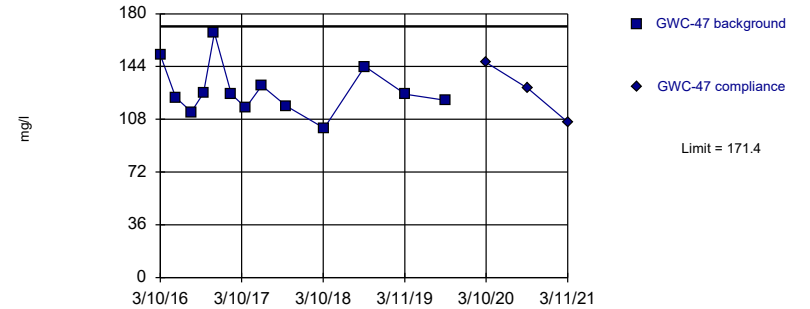


Background Data Summary: Mean=234.8, Std. Dev.=23.52, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8616, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

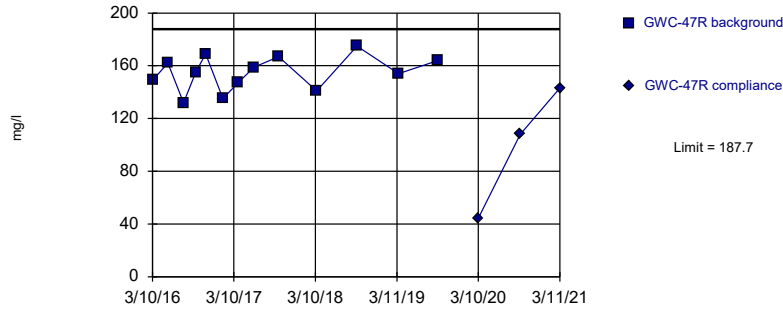


Background Data Summary: Mean=127.8, Std. Dev.=17.38, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

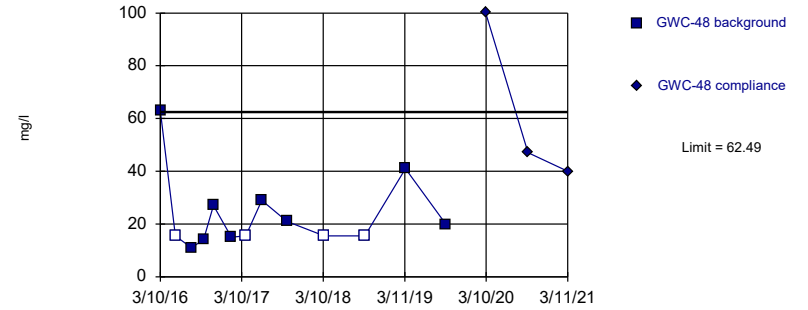


Background Data Summary: Mean=154.5, Std. Dev.=13.26, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

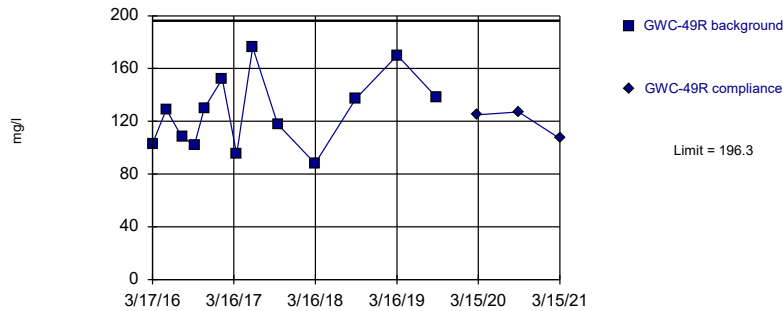


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=4.798, Std. Dev.=1.241, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8167, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Intrawell Parametric

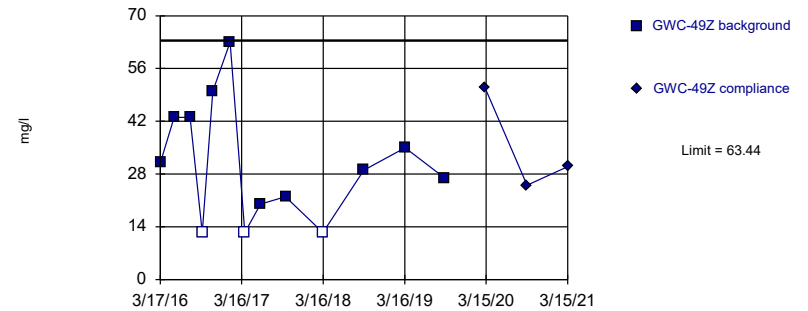


Background Data Summary: Mean=126.6, Std. Dev.=27.83, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9499, critical = 0.814. Kappa = 2.504 (c=7, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0008358.

Constituent: Total Dissolved Solids Analysis Run 4/29/2021 12:48 PM View: Appendix III
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 4/29/2021 12:48 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/16/2020		34.9
3/16/2021		32.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		1
3/12/2021		11

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		17.7
3/10/2021		22.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		13.5
3/11/2021		25.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		22.9
3/10/2021		40.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		31.1
3/11/2021		34.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		9
3/11/2021		2.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		31
3/11/2021		31.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		8.3
3/11/2021		11.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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)
9/11/2020		0.81 (J)
3/11/2021		0.93 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		35.3
3/11/2021		43.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		40.2
3/11/2021		45.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		20.9
3/11/2021		21.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		31.6
3/11/2021		31.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		3.5
3/11/2021		5.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		24.7
3/15/2021		24.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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)
9/14/2020		0.65 (J)
3/15/2021		0.69 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/16/2020		1.7
3/16/2021		1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		1.2
3/12/2021		1.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		0.77 (J)
3/10/2021		0.97 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		1.2
3/11/2021		1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		1.4
3/10/2021		1.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		2
3/11/2021		2.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		1.3
3/11/2021		1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		3.3
3/11/2021		2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		4.2
3/11/2021		5.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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)
9/11/2020		0.79 (J)
3/11/2021		0.83 (J)

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		3.1
3/11/2021		4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		1.1
3/11/2021		1.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		2.2
3/11/2021		2.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		2.2
3/11/2021		2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		4
3/11/2021		4.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		1.2
3/15/2021		1.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		0.98 (J)
3/15/2021		0.98 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III

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
9/16/2020		8.6
3/16/2021		3.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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)
9/10/2020		0.95 (J)
3/12/2021		2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		1.3
3/10/2021		1.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		1.7
3/11/2021		6.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		5.9
3/10/2021		8.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		0.95 (J)
3/11/2021		1.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		<1
3/11/2021		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		4.9
3/11/2021		4.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III

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
9/15/2020		23.1
3/11/2021		35.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III

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)
9/11/2020		<1
3/11/2021		<1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		2.8
3/11/2021		4.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		6.9
3/11/2021		6.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		4.3
3/11/2021		4.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		9.6
3/11/2021		10.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		5.4
3/11/2021		15.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		2.1
3/15/2021		2.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		1.2
3/15/2021		1.5

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/16/2020		156
3/16/2021		142

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		16
3/12/2021		55

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		102
3/10/2021		60

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		35
3/11/2021		101

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		111
3/10/2021		148

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/10/2020		120
3/11/2021		109

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		31
3/11/2021		14

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		146
3/11/2021		98

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		56
3/11/2021		43

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		11
3/11/2021		12

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		146
3/11/2021		167

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		232
3/11/2021		209

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		129
3/11/2021		106

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/15/2020		108
3/11/2021		143

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		47
3/11/2021		40

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/11/2020		127
3/15/2021		107

Prediction Limit

Constituent: Total Dissolved Solids (mg/l) Analysis Run 4/29/2021 12:51 PM View: Appendix III
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
9/14/2020		25
3/15/2021		30

FIGURE K.

Appendix III Interwell Prediction Limits - Intrawell Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	42.9	n/a	3/11/2021	43.1	Yes	130	n/a	n/a	0	n/a	n/a	0.0001171	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-48	14.01	n/a	3/11/2021	15.4	Yes	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2

Appendix III Interwell Prediction Limits - Intrawell Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-45R	42.9	n/a	3/11/2021	43.1	Yes	130	n/a	n/a	0	n/a	n/a	0.0001171	NP (normality) 1 of 2
Chloride (mg/L)	GWC-48	6.147	n/a	3/11/2021	4.5	No	129	n/a	n/a	0	n/a	n/a	0.0001189	NP (normality) 1 of 2
Sulfate (mg/L)	GWC-45R	14.01	n/a	3/11/2021	4.2	No	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2
Sulfate (mg/L)	GWC-48	14.01	n/a	3/11/2021	15.4	Yes	129	1.476	0.485	5.426	None	x^(1/3)	0.0008358	Param 1 of 2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/29/2021 12:55 PM View: Appendix III - Intravel Exceedances

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)	GWA-41 (bg)	GWA-40 (bg)	GWC-45R	GWA-39RZ (bg)
3/11/2016	31	13	30						
3/14/2016				20					
3/15/2016					38	24	24		
3/16/2016								36	
5/11/2016				9.76			22.1		
5/12/2016						15.5			
5/13/2016		18.7	27.8		36				
5/16/2016	32							37.4	27.8 (D)
7/19/2016		12	25.3	3.04					
7/20/2016						16.5			
7/21/2016					33.5		19.3		
7/22/2016	28.5								
7/25/2016								30.2	
7/27/2016									21.2 (D)
9/15/2016				4.78		6.1	18.2		
9/16/2016		8.48	27.5						
9/19/2016	28.6							32.3	
9/21/2016					31.9				
11/2/2016		11.4	26.2	2.46					
11/3/2016	26.6				28.9	13.7	18.2	29.3	
1/17/2017	28.7				31.4		22		
1/18/2017		6.81	26.6	5.46		13.1			
1/20/2017								28.7	
2/21/2017									31.7 (D)
3/24/2017						17.3	21.1		
3/27/2017	30.4				31.7				31.9 (D)
3/28/2017		5.61	29	13					
3/29/2017								34.9	
5/24/2017							23.5		
6/6/2017		4.99	29.3		42.9	29.1			
6/7/2017	31.3			17				30.9	
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					29.3	17.6			
9/26/2017	29.5			24.9			24.1		
9/27/2017								34.2	
9/29/2017									33.4 (D)
12/28/2017			29 (Y)	17.9 (Y)					
3/14/2018	32.6	3.6		26.4	41.4	39.6	25.7		
3/15/2018			28					34.6	
3/16/2018									32.6
9/12/2018		3.7	28.7	25.1	29	14.2 (J)	18.4 (J)		
9/13/2018								36.1	
9/14/2018	30.5								29.2
3/13/2019		2.9	29.2				23.8 (X)		
3/14/2019	32				31.9	22.7 (X)		37	33
3/15/2019				20.3 (X)					
9/9/2019				11.3			15.4		
9/10/2019	34				29.6	6			33.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/29/2021 12:55 PM View: Appendix III - Intravel Exceedances

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)	GWA-41 (bg)	GWA-40 (bg)	GWA-39RZ (bg)
3/10/2016	2.4266								
3/11/2016		2.4984	1.2562	1.9467					
3/14/2016					1.795				
3/15/2016						6.1465	4.1666	1.1671	
5/11/2016					2.04			0.8763	
5/12/2016							1.78		
5/13/2016			1.32	2.14		3.08			
5/16/2016		2.22							1.74 (D)
5/17/2016	2.01								
7/19/2016			1.3	3.1	2.1				
7/20/2016							1.8		
7/21/2016						3.7		1.4	
7/22/2016		2.6							
7/27/2016	2.3								2.1 (D)
9/15/2016					1.7		1.4		
9/16/2016			1.2	3.5					
9/19/2016		2.5						1.1	
9/20/2016	2.2								
9/21/2016						2.4			
11/2/2016			1.4	4.7	1.8				
11/3/2016		3				3.4	1.6	1.2	
11/4/2016	3								
1/17/2017		2.9				1.9		1	
1/18/2017			1.2	4.9	1.7		1.5		
1/23/2017	2.5								
2/21/2017									4 (D)
3/24/2017							1.4	1.2	
3/27/2017		3				2.4			2.6 (D)
3/28/2017	2.2		1.4	4.1	1.3				
5/24/2017								1.5	
6/6/2017			1.4	3.6		4.5	2.8		
6/7/2017		3			1.2				
6/8/2017	2.3								2.1 (D)
7/17/2017									1.9 (D)
7/27/2017									3 (D)
8/9/2017									2.5 (D)
9/22/2017			1.3	3.9					
9/25/2017						2.5	1.8		
9/26/2017		3.1			1.7			2.4	
9/29/2017	2.5								2.7 (D)
12/28/2017								3.9 (Y)	
3/14/2018		3.2	1.3		1.4	4 (J)	3	2.4	
3/15/2018	2.6			2.8					
3/16/2018									2.6
9/12/2018			1.3	3.1	1.6	2.1	1.4	1	
9/13/2018	2.8								
9/14/2018		2.3							1.9
3/13/2019			1.6	2.9				2.2	
3/14/2019		3.6				2.9	2.6		2.8
3/15/2019	3.3				1.7				
9/9/2019					1.2			0.83 (X)	
9/10/2019		2				1.7	1.1		2.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:55 PM View: Appendix III - IntraWell Exceedances

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)	GWA-41 (bg)	GWA-40 (bg)	GWC-45R
3/10/2016	2.6569								
3/11/2016		1.4538	1.1313	3.8282					
3/14/2016					4.2598				
3/15/2016						6.4987	4.9347	1.2104	
3/16/2016									2.8721
5/11/2016					6.05			1.28	
5/12/2016							2.3		
5/13/2016			1.96	3.56		3.68			
5/16/2016		1.18							2.27
5/17/2016	2.39								
7/19/2016			1.3	5.6	9.5				
7/20/2016							2		
7/21/2016						4.5		0.91 (J)	
7/22/2016		1.8							
7/25/2016									2.6
7/27/2016	<1 (*)								
9/15/2016					6.7		1.1		
9/16/2016			1.1	6.7					
9/19/2016		1.4						1.3	2.8
9/20/2016	2.4								
9/21/2016						2.8			
11/2/2016			1.2	8.1	5.4				
11/3/2016		1.6				6.7	1.6	1.5	2.6
11/4/2016	2.1								
1/17/2017		<1 (*)				<1 (*)		<1 (*)	
1/18/2017			0.84 (J)	8.9	5.5		1.5		
1/20/2017									2.8
1/23/2017	2.1								
2/21/2017									
3/24/2017							1.6	0.86 (J)	
3/27/2017		2				0.85 (J)			
3/28/2017	2.1		0.7 (J)	8.2	2.9				
3/29/2017									3.1
5/24/2017								1.2	
6/6/2017			0.47 (J)	7		6.1	4.1		
6/7/2017		1.9			2.3				3.2
6/8/2017	1.3								
7/17/2017									
7/27/2017									
8/9/2017									
9/22/2017			0.59 (J)	8.3					
9/25/2017						3.5	1.9		
9/26/2017		2			3.2			4.2	
9/27/2017									2.5
9/29/2017	3.7								
12/28/2017	1.7 (Y)							7.4 (Y)	
3/14/2018		2.1	0.39 (J)		3.8	10.9 (J)	11.5	3.8	
3/15/2018	0.76 (J)			5.1					2.9
3/16/2018									
9/12/2018			0.3 (J)	5.6	3.7	3.7	1.8	1.7	
9/13/2018	1.6								2.3
9/14/2018		1.6							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:55 PM View: Appendix III - IntraWell Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

GWA-39RZ (bg)

3/10/2016	
3/11/2016	
3/14/2016	
3/15/2016	
3/16/2016	
5/11/2016	
5/12/2016	
5/13/2016	
5/16/2016	2.4 (D)
5/17/2016	
7/19/2016	
7/20/2016	
7/21/2016	
7/22/2016	
7/25/2016	
7/27/2016	3.6 (D)
9/15/2016	
9/16/2016	
9/19/2016	
9/20/2016	
9/21/2016	
11/2/2016	
11/3/2016	
11/4/2016	
1/17/2017	
1/18/2017	
1/20/2017	
1/23/2017	
2/21/2017	26 (D)
3/24/2017	
3/27/2017	10 (D)
3/28/2017	
3/29/2017	
5/24/2017	
6/6/2017	
6/7/2017	
6/8/2017	6.7 (D)
7/17/2017	6.4 (D)
7/27/2017	18 (D)
8/9/2017	18 (D)
9/22/2017	
9/25/2017	
9/26/2017	
9/27/2017	
9/29/2017	21 (D)
12/28/2017	
3/14/2018	
3/15/2018	
3/16/2018	15.5
9/12/2018	
9/13/2018	
9/14/2018	11.6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/29/2021 12:55 PM View: Appendix III - IntraWell Exceedances
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

GWA-39RZ (bg)

3/13/2019	
3/14/2019	9.3
3/15/2019	
9/9/2019	
9/10/2019	14
9/11/2019	
3/6/2020	
3/9/2020	5.8
3/10/2020	
9/10/2020	
9/11/2020	
9/14/2020	
9/16/2020	8.6
3/10/2021	
3/11/2021	
3/12/2021	
3/16/2021	3.5

FIGURE L.

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-44	7.89	5.5	3/11/2021	4.21	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45	7.89	5.5	3/11/2021	4.68	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	3/11/2021	4.95	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49R	7.89	5.5	3/15/2021	8.05	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49Z	7.89	5.5	3/15/2021	5.31	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2

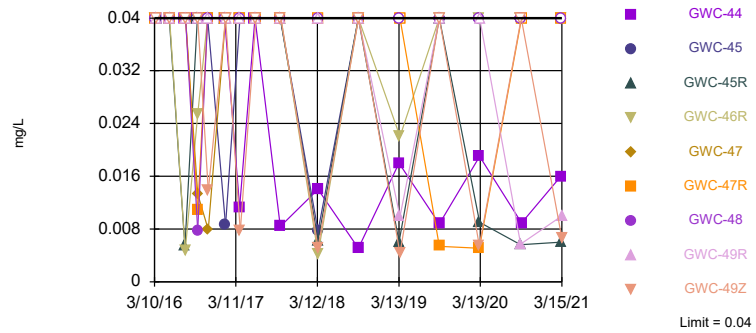
Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-44	0.04	n/a	3/11/2021	0.016J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-45R	0.04	n/a	3/11/2021	0.006J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-46R	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-47R	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-48	0.04	n/a	3/11/2021	0.04ND	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49R	0.04	n/a	3/15/2021	0.01J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Boron (mg/L)	GWC-49Z	0.04	n/a	3/15/2021	0.0066J	No	128	n/a	n/a	61.72	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-44	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-45R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-46R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-47R	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-48	0.27	n/a	3/11/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49R	0.27	n/a	3/15/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-49Z	0.27	n/a	3/15/2021	0.1ND	No	128	n/a	n/a	59.38	n/a	n/a	0.0001206	NP (NDs) 1 of 2
pH (SU)	GWC-44	7.89	5.5	3/11/2021	4.21	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45	7.89	5.5	3/11/2021	4.68	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-45R	7.89	5.5	3/11/2021	7.21	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-46R	7.89	5.5	3/11/2021	7.53	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-47	7.89	5.5	3/11/2021	7.34	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-47R	7.89	5.5	3/11/2021	7.48	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	3/11/2021	4.95	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49R	7.89	5.5	3/15/2021	8.05	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2
pH (SU)	GWC-49Z	7.89	5.5	3/15/2021	5.31	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

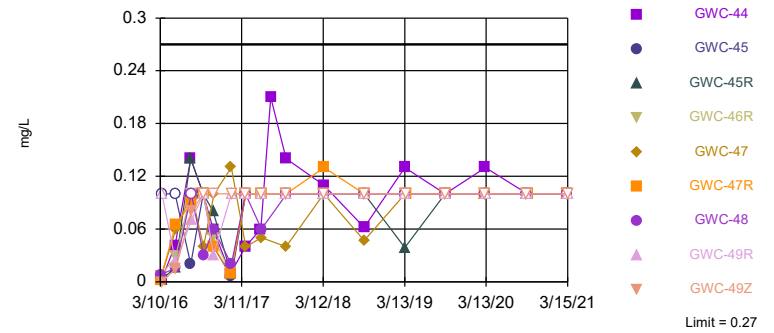


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 61.72% NDs. Annual per-constituent alpha = 0.002169. Individual comparison alpha = 0.0001206 (1 of 2). Comparing 9 points to limit.

Constituent: Boron Analysis Run 4/29/2021 12:44 PM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

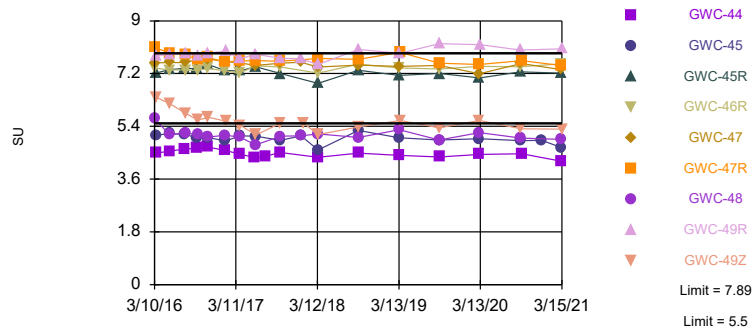


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 128 background values. 59.38% NDs. Annual per-constituent alpha = 0.002169. Individual comparison alpha = 0.0001206 (1 of 2). Comparing 9 points to limit.

Constituent: Fluoride Analysis Run 4/29/2021 12:44 PM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Exceeds Limits: GWC-44, GWC-45, GWC-48, GWC-49R, GWC-49Z

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 133 background values. Annual per-constituent alpha = 0.004021. Individual comparison alpha = 0.0002236 (1 of 2). Comparing 9 points to limit.

Constituent: pH Analysis Run 4/29/2021 12:44 PM View: Appendix III - Interwell
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/29/2021 12:45 PM View: Appendix III - Interwell
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-41R (bg)	GWA-41 (bg)	GWC-45R	GWC-44	GWC-45	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								
5/12/2016		<0.04						
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		<0.04						
7/21/2016	<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							
1/18/2017		<0.04						
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		0.0154 (J)						
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								
6/5/2017				<0.04 (*)				
6/6/2017	<0.04 (*)	<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)	<0.04						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/29/2021 12:45 PM View: Appendix III - Interwell

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-47R	GWC-47	GWC-48	GWC-46R	GWA-42 (bg)	GWA-43R (bg)	GWA-43 (bg)	GWA-39Z (bg)	GWA-41 (bg)
3/10/2016	0.00202 (J)	0.00337 (J)	0.00797 (J)	0.00697 (J)					
3/11/2016					0.0296 (J)	0.0141 (J)	0.0329 (J)		
3/14/2016								0.0657 (J)	
3/15/2016									0.0285 (J)
3/16/2016									
3/17/2016									
5/11/2016								0.0401 (J)	
5/12/2016									0.022 (J)
5/13/2016						0.0141 (J)	0.0459 (J)		
5/16/2016					0.0287 (J)				
5/17/2016			0.0156 (J)	0.0281 (J)					
5/18/2016	0.065 (J)	0.059 (J)							
7/19/2016						<0.1	<0.1	<0.1	
7/20/2016									<0.1
7/21/2016									
7/22/2016					0.04 (J)				
7/25/2016									
7/26/2016				<0.1					
7/27/2016	0.09 (J)	0.1 (J)	<0.1						
7/28/2016									
9/15/2016								<0.1	<0.1
9/16/2016						<0.1	<0.1		
9/19/2016					<0.1				
9/20/2016	<0.1	0.04 (J)	0.03 (J)	<0.1					
9/21/2016									
11/2/2016						0.04 (J)	0.04 (J)	0.04 (J)	
11/3/2016					0.04 (J)				0.05 (J)
11/4/2016	0.04 (J)		0.06 (J)	0.05 (J)					
11/7/2016		0.1 (J)							
1/17/2017					0.02 (J)				
1/18/2017						0.02 (J)	<0.1	0.03 (J)	0.02 (J)
1/19/2017									
1/20/2017	0.009 (J)			0.01 (J)					
1/23/2017		0.13 (J)	0.02 (J)						
1/24/2017									
2/21/2017									
3/24/2017									<0.1
3/27/2017					<0.1				
3/28/2017			<0.1	<0.1		<0.1	<0.1	0.06 (J)	
3/29/2017	<0.1	0.04 (J)							
3/30/2017									
5/24/2017									
6/5/2017									
6/6/2017						<0.1	<0.1		<0.1
6/7/2017				<0.1	<0.1			0.06 (J)	
6/8/2017	<0.1 (*)	0.05 (J)	0.06 (J)						
6/9/2017									
7/17/2017									
7/20/2017									
7/27/2017									
8/9/2017									
9/22/2017						<0.1	<0.1		

FIGURE M.

Appendix III Trend Tests - Significant Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-42 (bg)	1.06	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43 (bg)	-2.208	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1468	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4173	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-48	0.3842	86	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49Z	-0.1193	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP

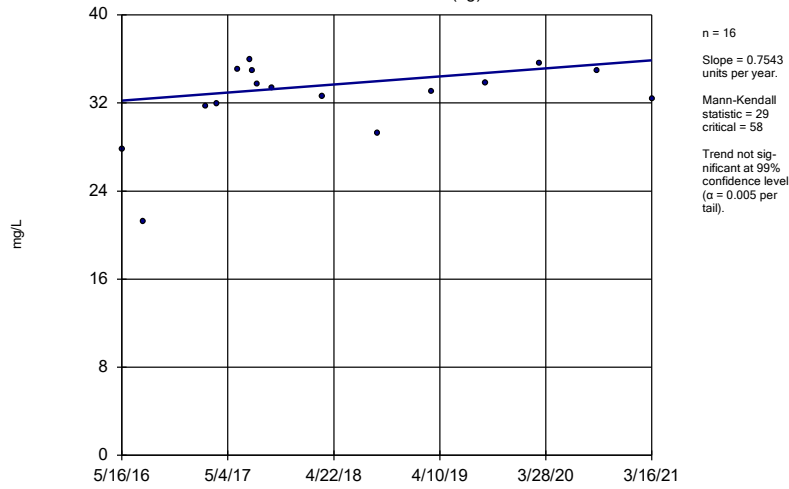
Appendix III Trend Tests - All Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 4/29/2021, 12:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GWA-39RZ (bg)	0.7543	29	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-39Z (bg)	0.3593	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-40 (bg)	0.104	5	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-41 (bg)	1.245	16	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-41R (bg)	-1.862	-37	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-42 (bg)	1.06	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43 (bg)	-2.208	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-43R (bg)	0.8953	63	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-45R	1.808	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39RZ (bg)	-0.1647	-31	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-39Z (bg)	-0.1468	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-40 (bg)	0	-2	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41 (bg)	-0.1103	-39	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-41R (bg)	-0.4173	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-42 (bg)	0.01532	9	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-43 (bg)	0	1	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-43R (bg)	-0.08882	-11	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-48	0.3842	86	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39RZ (bg)	-0.003632	-7	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39Z (bg)	-0.01862	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWA-40 (bg)	-0.03578	-30	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41 (bg)	0.01645	6	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-42 (bg)	0	0	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43R (bg)	-0.01551	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-44	-0.05539	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-45	-0.04553	-65	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWC-48	-0.03568	-41	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49R	0.04817	44	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-49Z	-0.1193	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39RZ (bg)	-0.3795	-9	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1043	29	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41 (bg)	0.1662	15	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41R (bg)	0.8058	35	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-42 (bg)	0.05143	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3994	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-45R	0.2353	36	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-48	-0.1212	-11	-63	No	17	5.882	n/a	n/a	0.01	NP

Sen's Slope Estimator

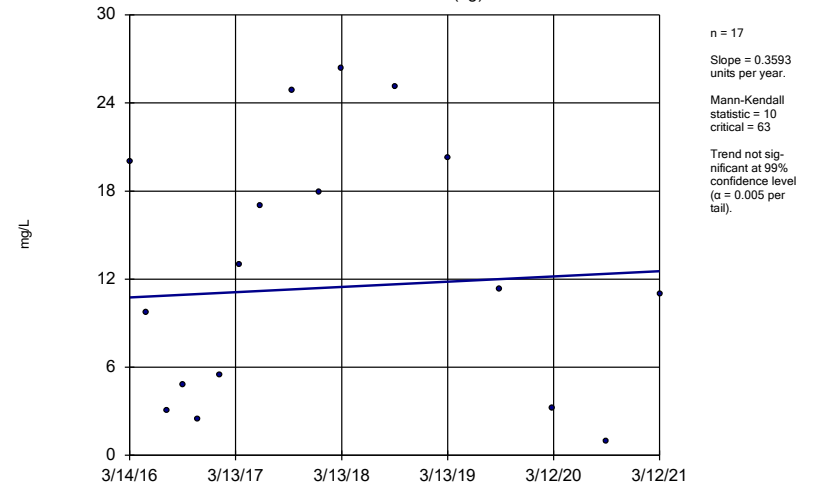
GWA-39RZ (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:56 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

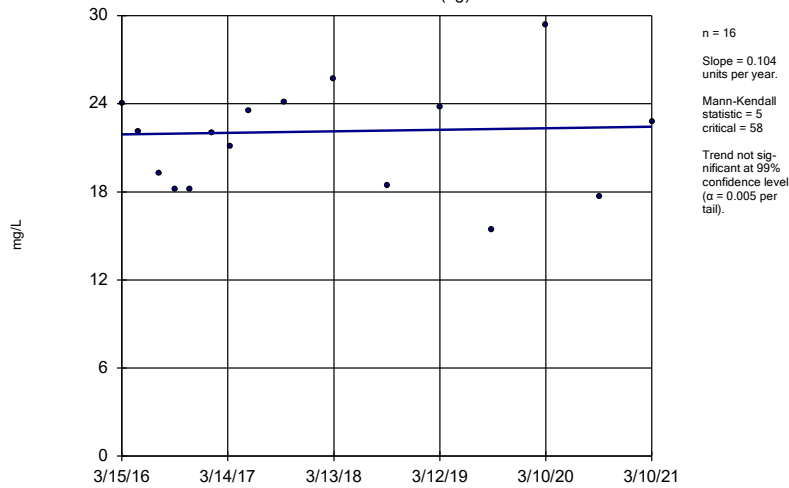
GWA-39Z (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:56 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

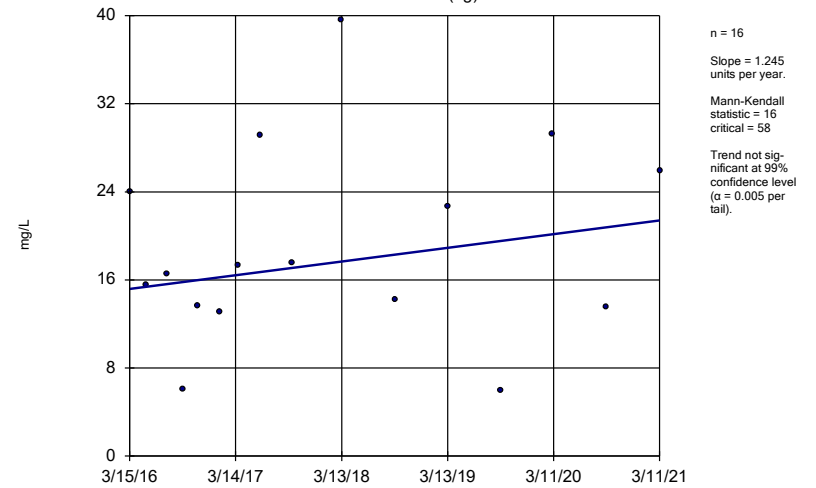
GWA-40 (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

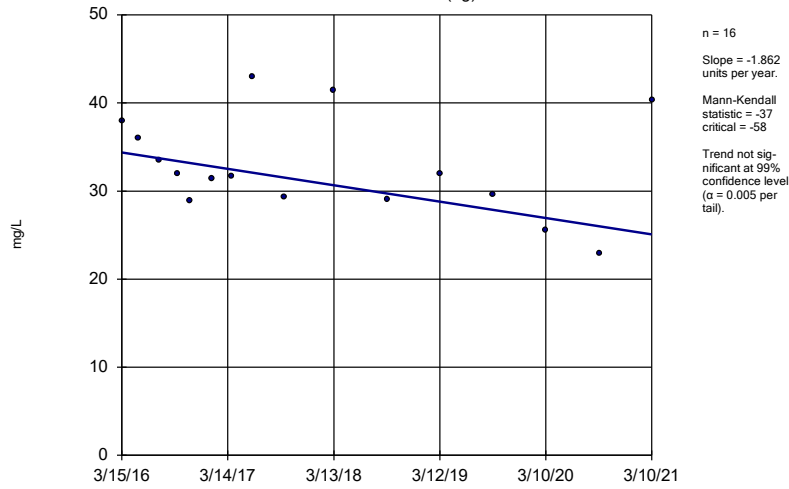
GWA-41 (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

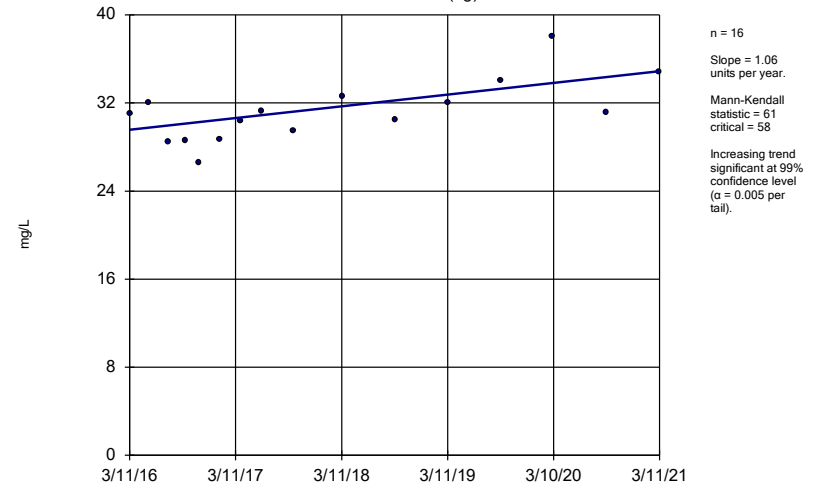
GWA-41R (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

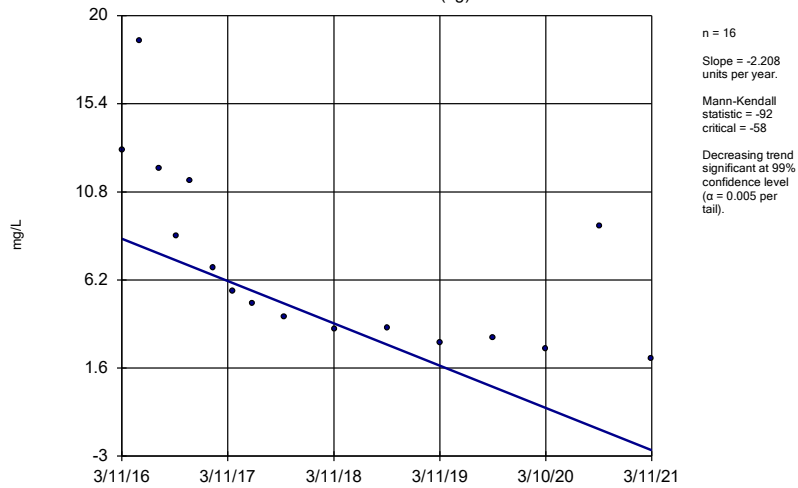
GWA-42 (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

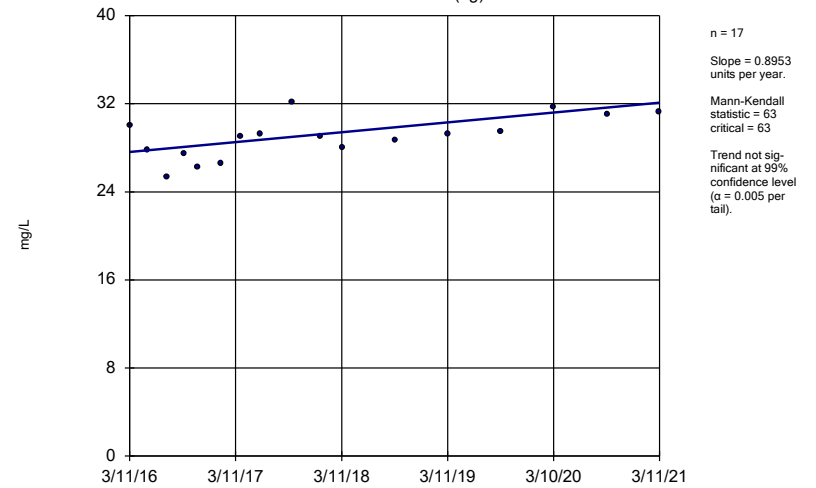
GWA-43 (bg)



Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

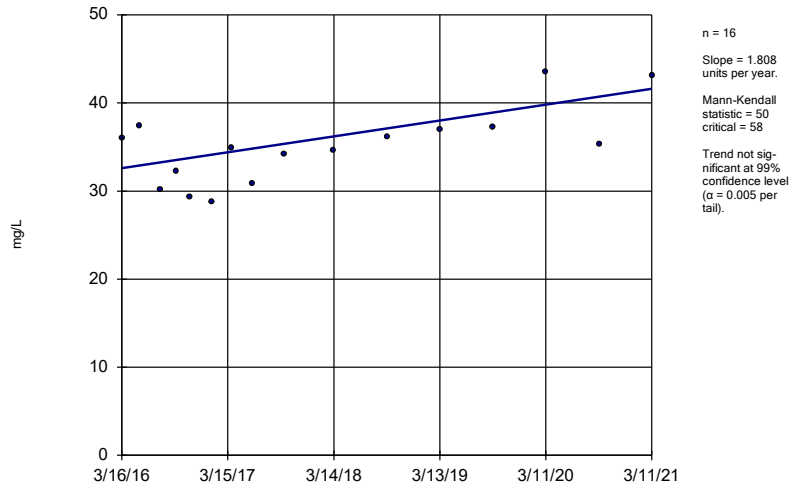
Sen's Slope Estimator

GWA-43R (bg)



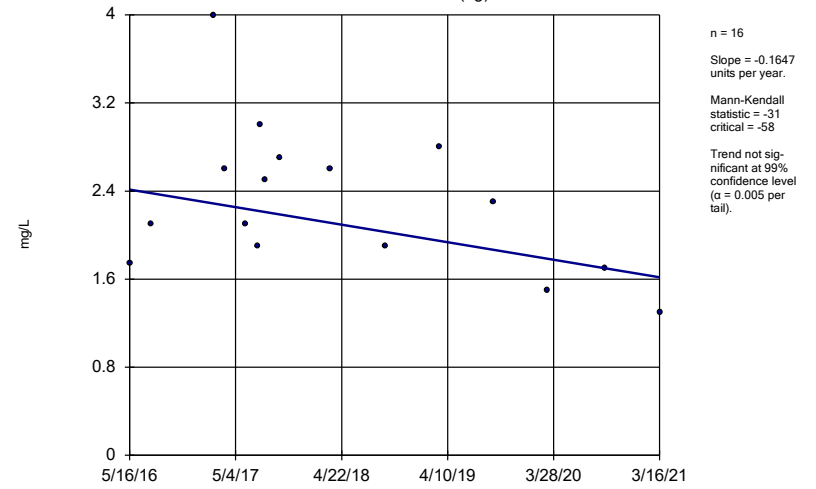
Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-45R



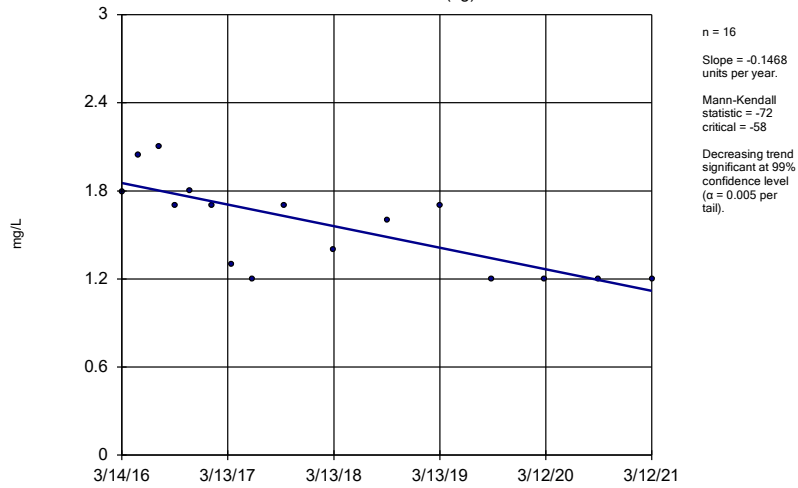
Constituent: Calcium Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-39RZ (bg)



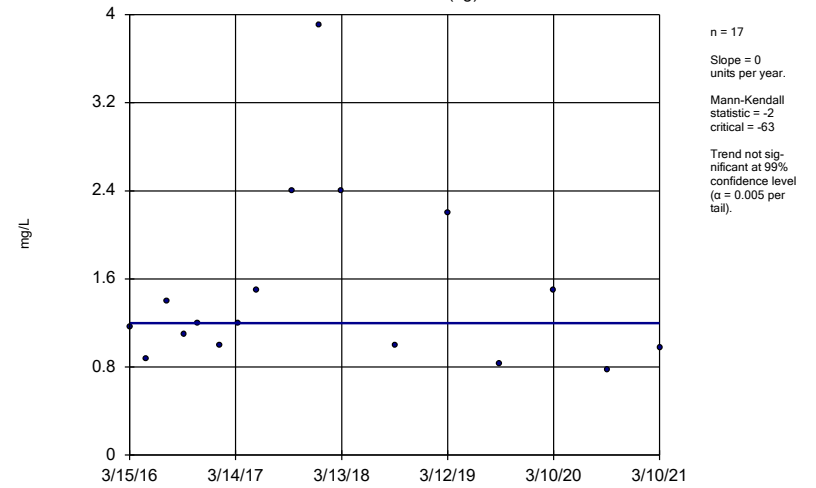
Constituent: Chloride Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-39Z (bg)



Constituent: Chloride Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

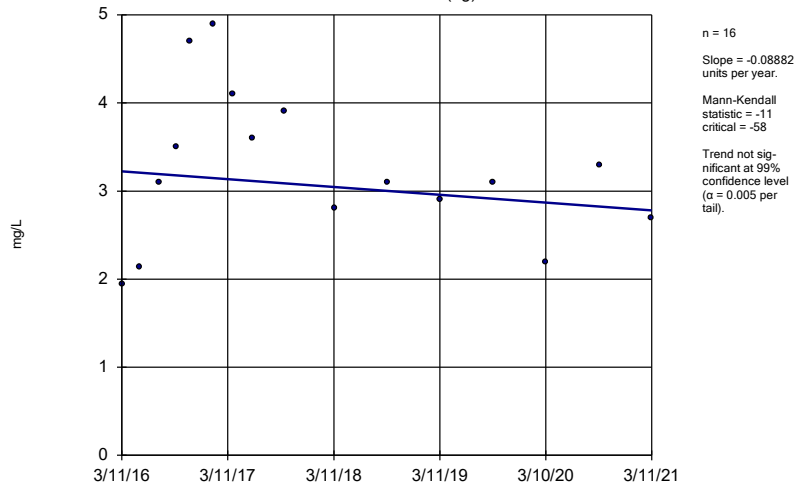
Sen's Slope Estimator
GWA-40 (bg)



Constituent: Chloride Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

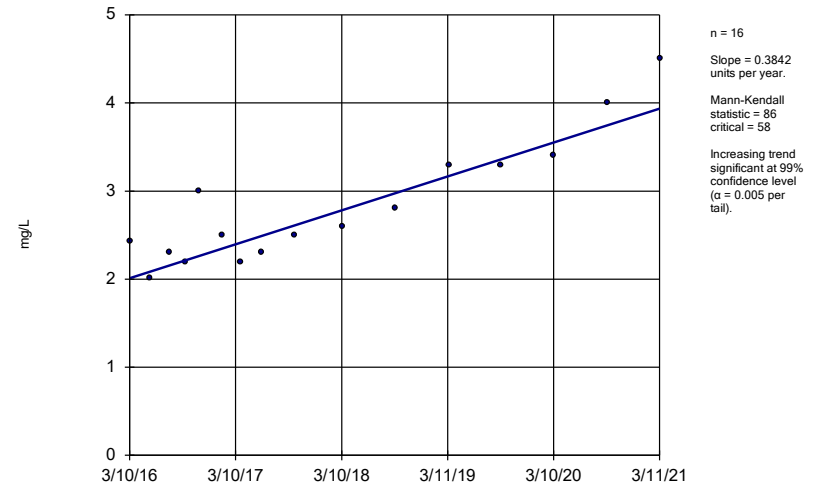
GWA-43R (bg)



Constituent: Chloride Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

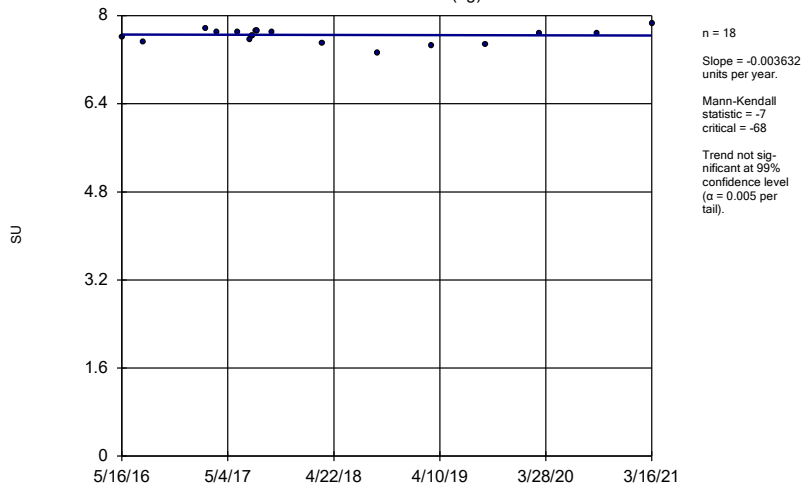
GWC-48



Constituent: Chloride Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

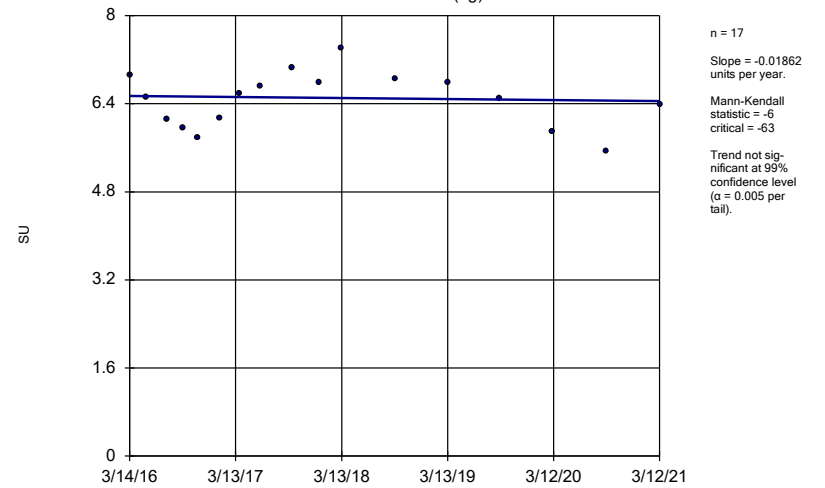
GWA-39RZ (bg)



Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

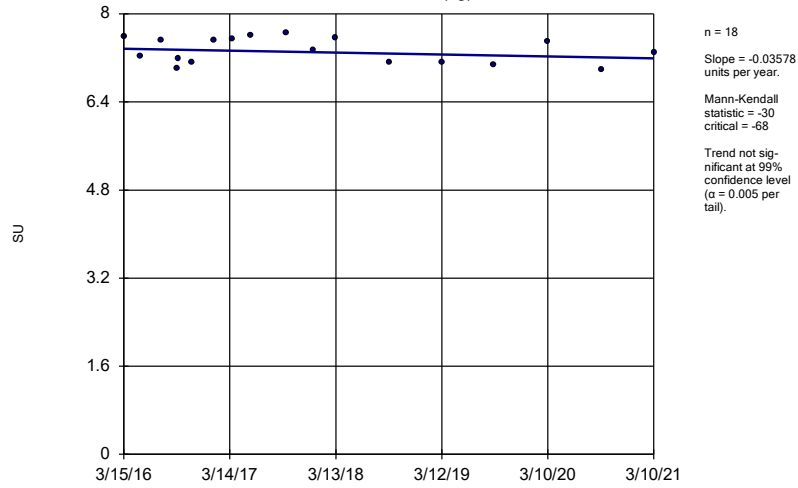
GWA-39Z (bg)



Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

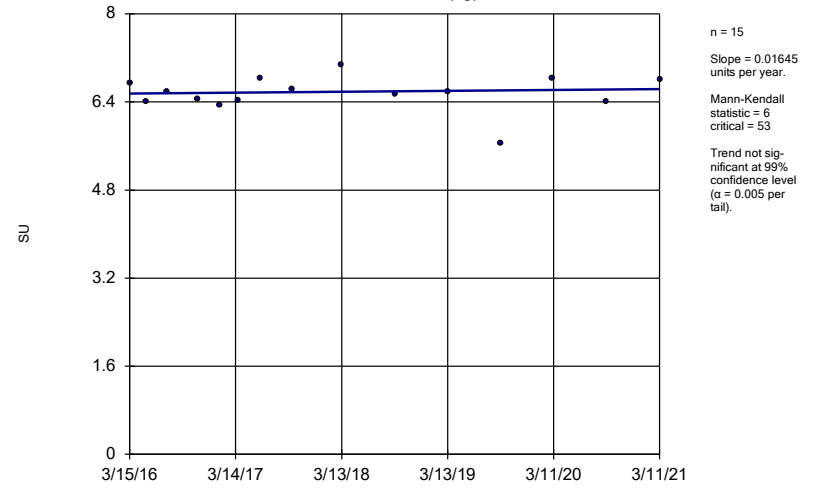
GWA-40 (bg)



Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

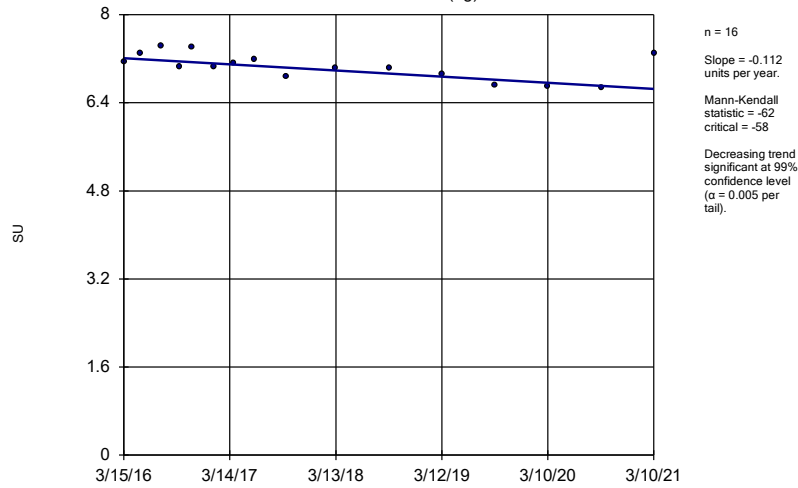
GWA-41 (bg)



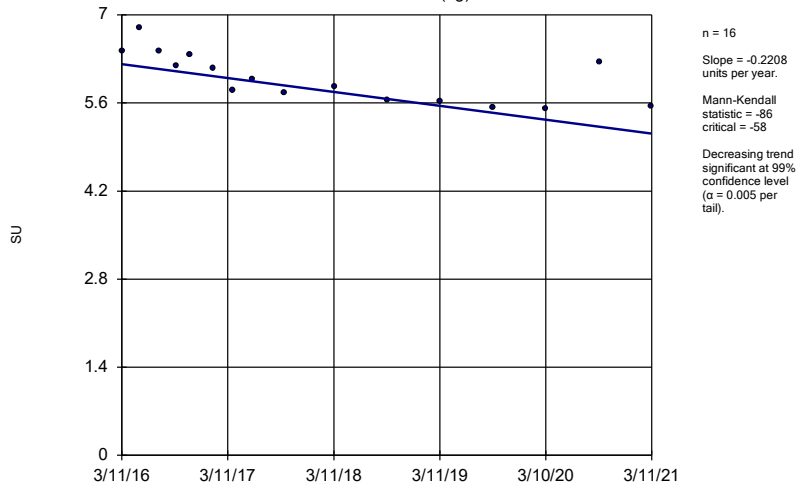
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41R (bg)

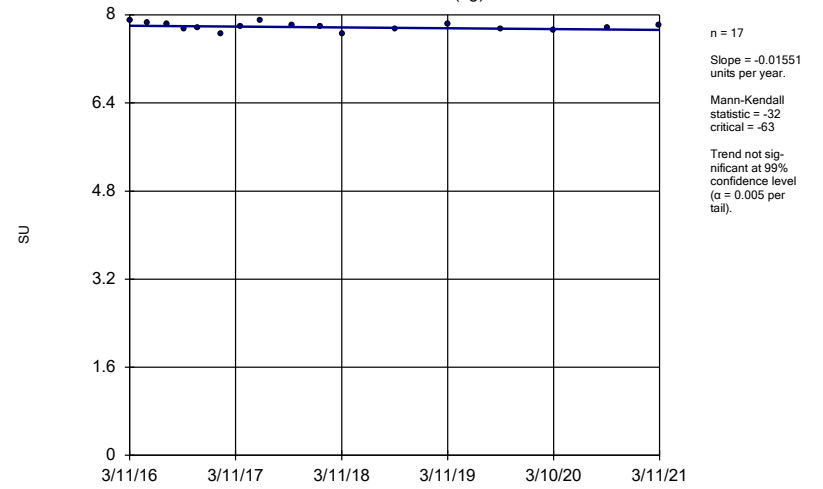


Sen's Slope Estimator
GWA-43 (bg)



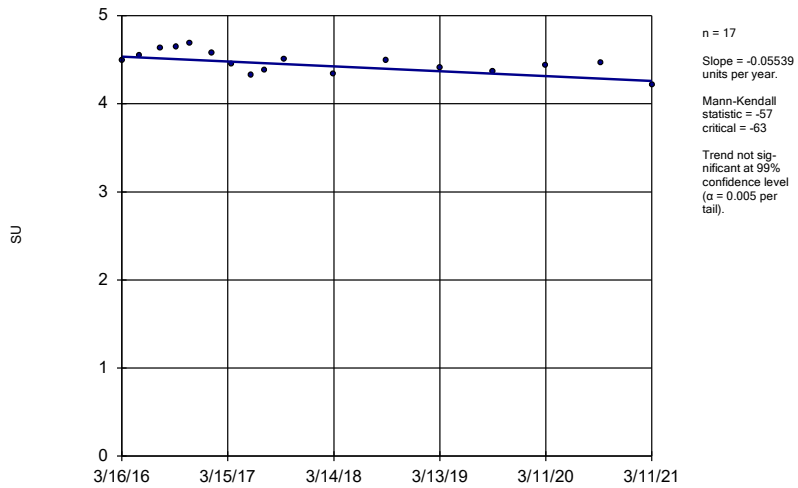
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43R (bg)



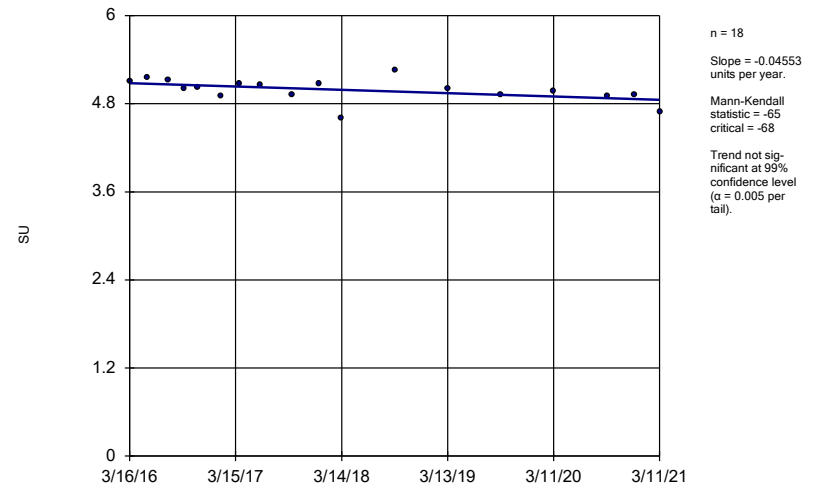
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-44



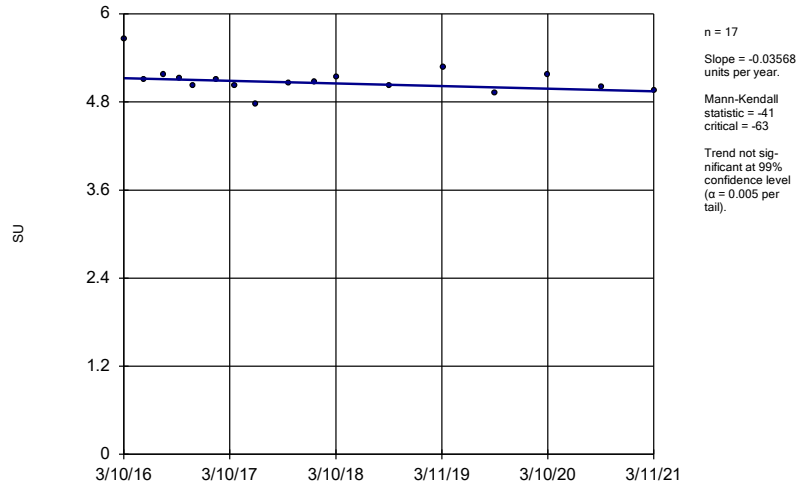
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-45



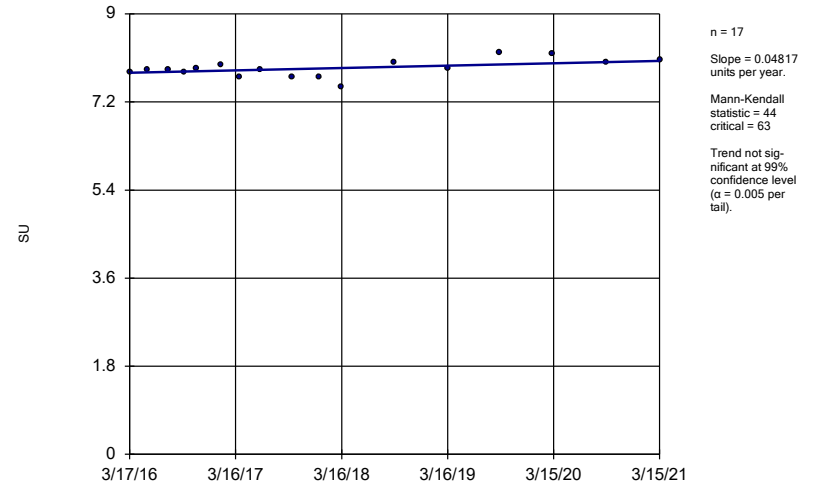
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-48



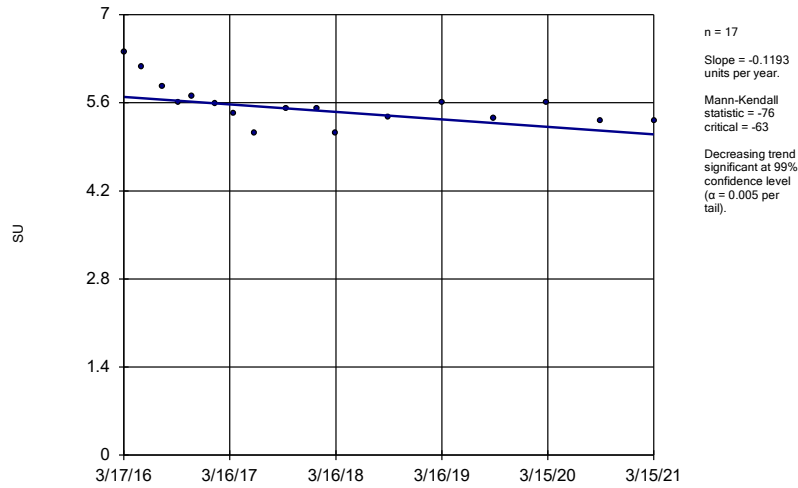
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-49R



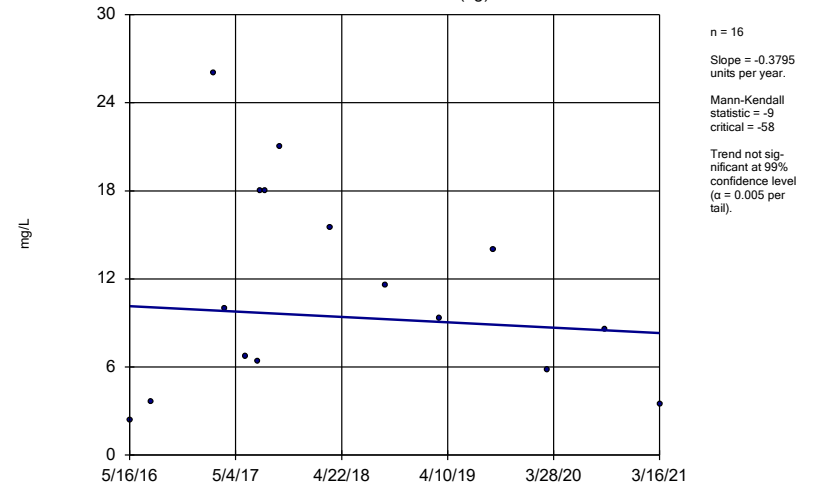
Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-49Z



Constituent: pH Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

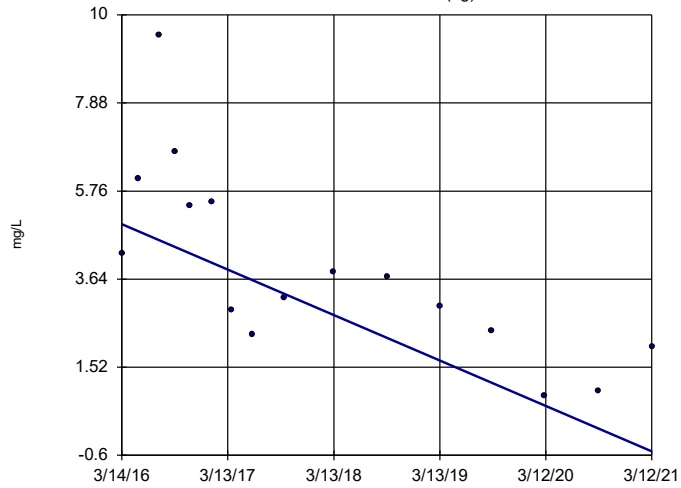
Sen's Slope Estimator
GWA-39RZ (bg)



Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39Z (bg)



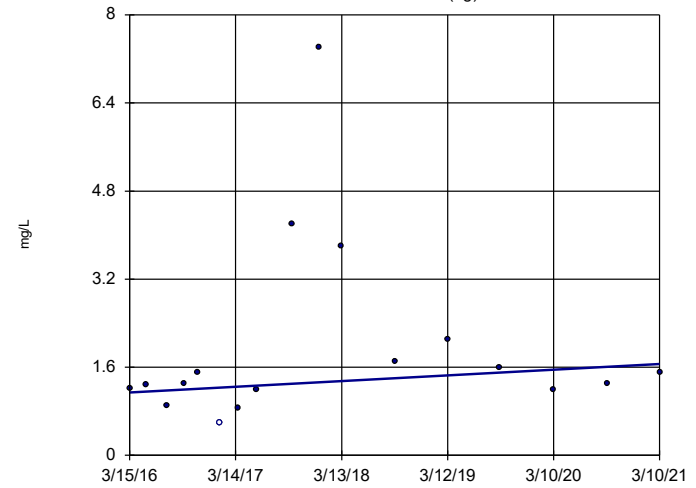
n = 16
 Slope = -1.093
 units per year.
 Mann-Kendall
 statistic = -76
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

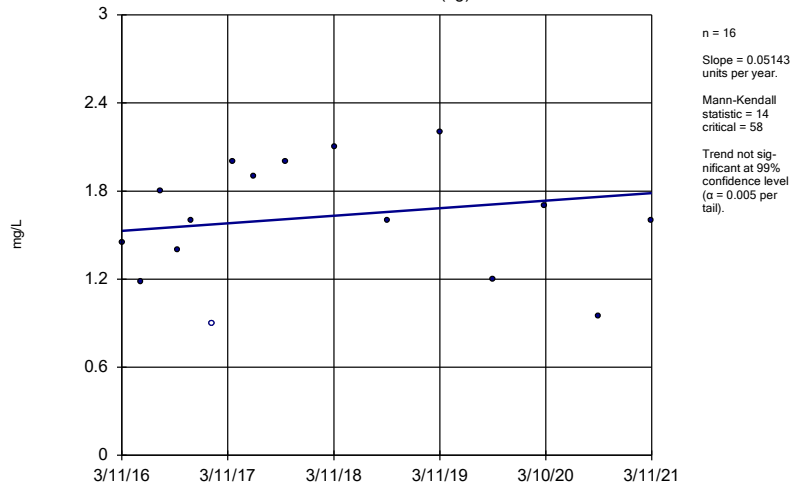
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-40 (bg)

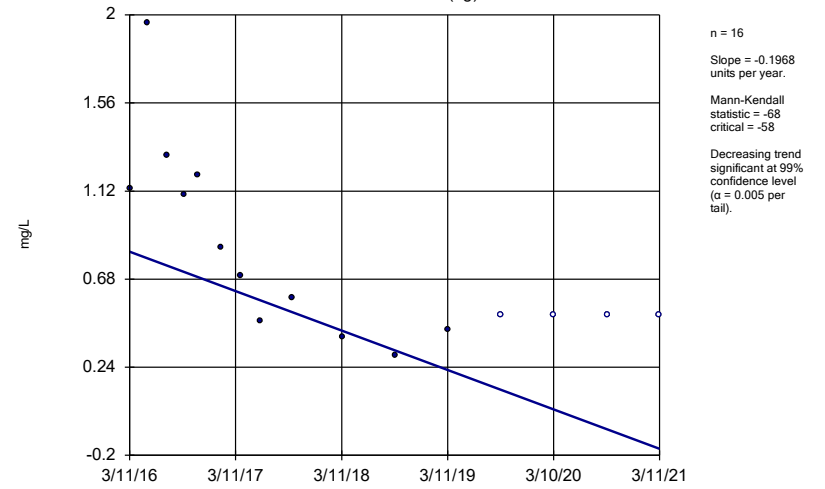


Sen's Slope Estimator
GWA-42 (bg)



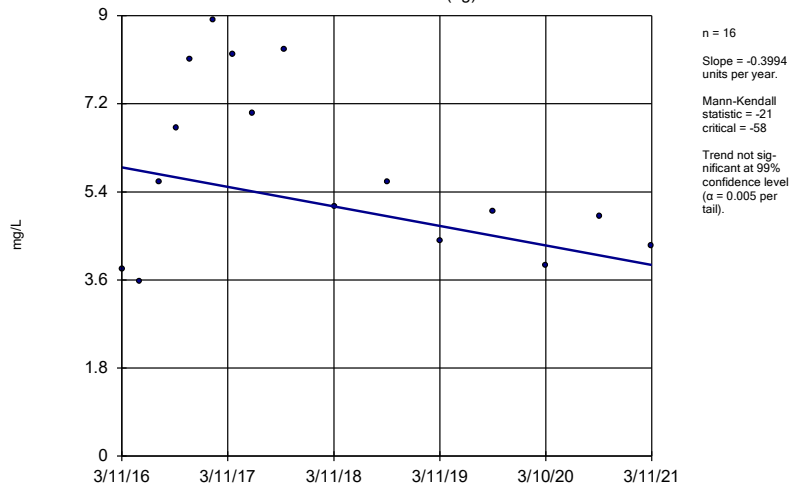
Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43 (bg)



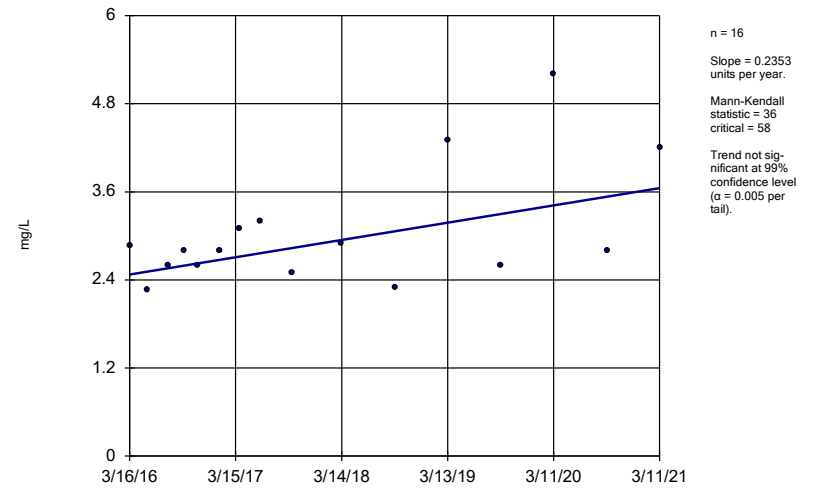
Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43R (bg)



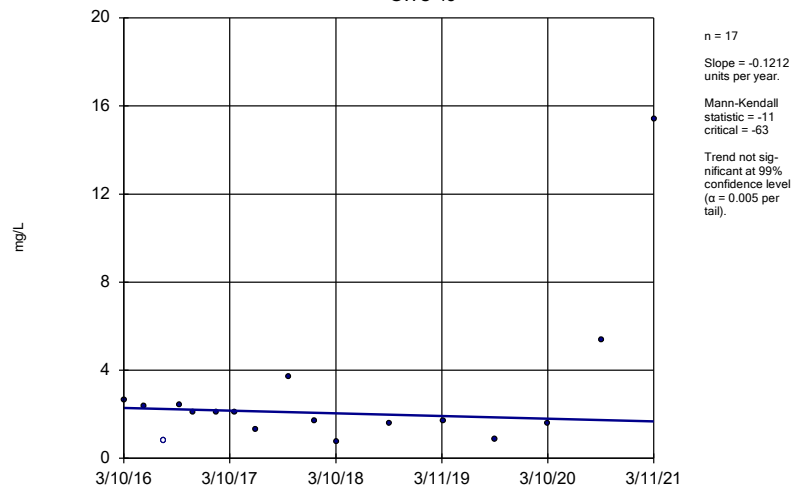
Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-45R



Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWC-48



Constituent: Sulfate Analysis Run 4/29/2021 12:57 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

FIGURE N.

Appendix I Bedrock Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:04 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GWC-46R	0.003994	n/a	5/26/2021	0.0052	Yes	11	-6.182	0.3505	27.27	Kaplan-Meier	In(x)	0.0008228	Param Intra 1 of 3

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 6/18/2021 11:04 AM View: Bedrock - Appendix I - Resample

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)
9/14/2020		0.006 (J)
3/11/2021		0.0059
5/26/2021		0.0052

FIGURE O.

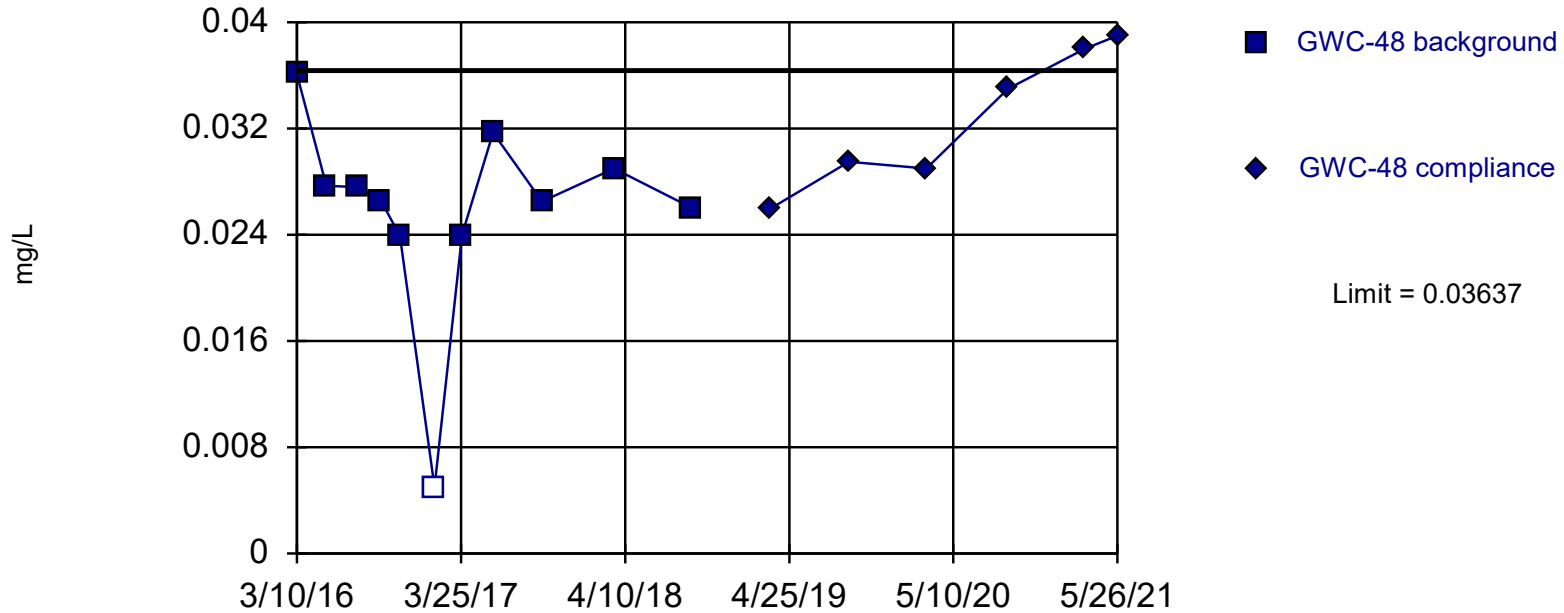
Appendix I Overburden Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:13 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-48	0.03637	n/a	5/26/2021	0.039	Yes	11	0.0007215	0.0003112	9.091	None	x^2	0.0007022	Param Intra 1 of 3

Exceeds 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.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 6/18/2021 11:13 AM View: Overburden - Appendix I - Resample
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
9/14/2020		0.035
3/11/2021		0.038
5/26/2021		0.039

FIGURE P.

Appendix III Intrawell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWC-48	3.856	n/a	5/26/2021	20.2	Yes	14	1.869	0.8101	7.143	None	No	0.0008358	Param Intra 1 of 2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/18/2021 11:17 AM View: Appendix III - Resample
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
9/14/2020		5.4
3/11/2021		15.4
5/26/2021		20.2

FIGURE Q.

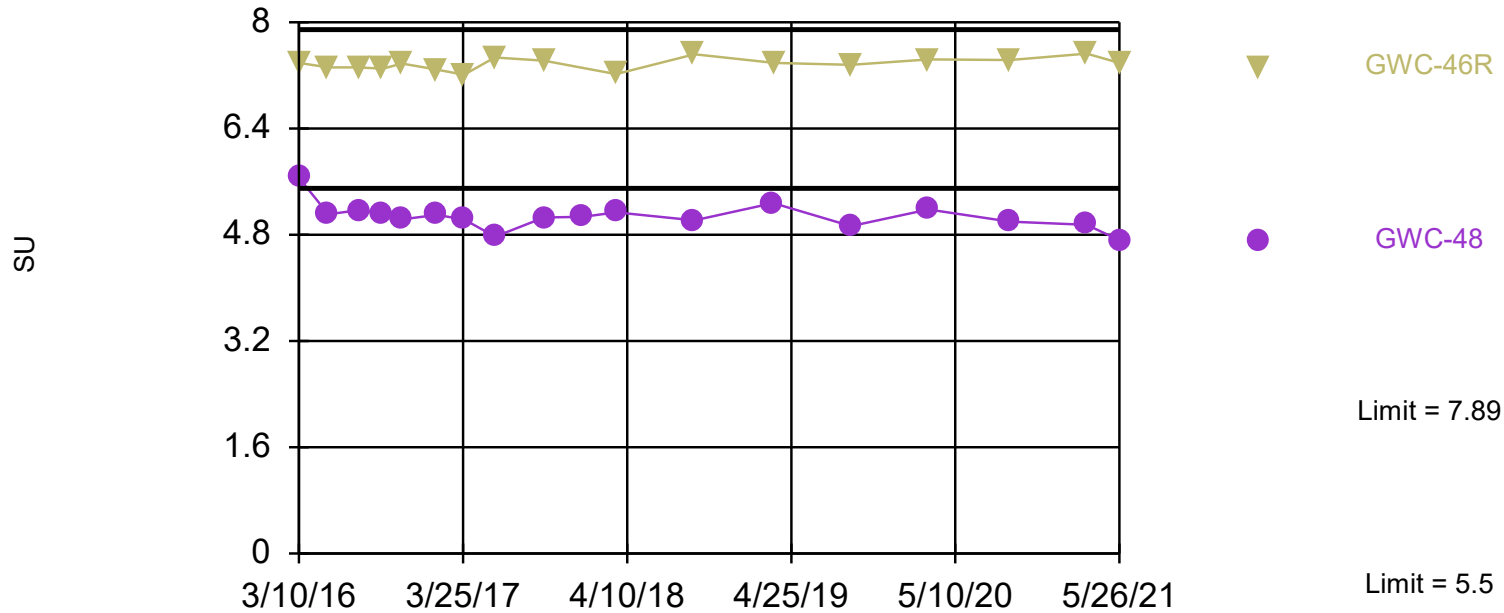
Appendix III Interwell Prediction Limits - Resample Results

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:19 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GWC-46R	7.89	5.5	5/26/2021	7.39	No	133	n/a	n/a	0	n/a	n/a	0.0002236	NP Inter (normality) 1 of 2
pH (SU)	GWC-48	7.89	5.5	5/26/2021	4.72	Yes	133	n/a	n/a	0	n/a	n/a	0.0002236	NP Inter (normality) 1 of 2

Exceeds Limits: GWC-48

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 133 background values. Annual per-constituent alpha = 0.004021. Individual comparison alpha = 0.0002236 (1 of 2). Comparing 2 points to limit. Assumes 7 future values.

Constituent: pH Analysis Run 6/18/2021 11:19 AM View: Appendix III - Interwell Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Prediction Limit

Constituent: pH (SU) Analysis Run 6/18/2021 11:19 AM View: Appendix III - Interwell Resample

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-46R	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)	GWA-40 (bg)	GWA-41 (bg)
3/10/2016	5.66	7.39							
3/11/2016			7.37	6.43	7.89				
3/14/2016						6.91			
3/15/2016							7.15	7.58	6.74
5/11/2016						6.51		7.24	
5/12/2016									6.41
5/13/2016				6.8	7.86		7.29		
5/16/2016			7.55						
5/17/2016	5.11	7.32							
7/19/2016				6.42	7.83	6.12			
7/20/2016									6.59
7/21/2016							7.43	7.53	
7/22/2016			7.51						
7/26/2016		7.32							
7/27/2016	5.17								
9/15/2016						5.96		7	
9/16/2016				6.19	7.75				
9/19/2016			7.52					7.19	
9/20/2016	5.12	7.3							
9/21/2016							7.05		
11/2/2016				6.36	7.77	5.78			
11/3/2016			7.56				7.4	7.13	6.45
11/4/2016	5.03	7.38							
1/17/2017			7.59				7.06	7.51	
1/18/2017				6.16	7.65	6.13			6.34
1/20/2017		7.29							
1/23/2017	5.1								
2/21/2017									
3/24/2017								7.55	6.42
3/27/2017			7.63				7.13		
3/28/2017	5.03	7.21		5.8	7.79	6.59			
5/24/2017								7.6	
6/6/2017				5.97	7.89		7.18		6.82
6/7/2017		7.47	7.55			6.72			
6/8/2017	4.77								
7/17/2017									
7/26/2017									
7/27/2017									
8/8/2017									
8/9/2017									
9/22/2017				5.77	7.8				
9/25/2017							6.88		6.63
9/26/2017			7.59			7.05		7.66	
9/29/2017	5.06	7.42							
12/28/2017	5.07 (Y)				7.78 (Y)	6.79 (Y)		7.34 (Y)	
3/14/2018			7.6	5.85		7.42	7.04	7.56	7.08
3/15/2018	5.14	7.22			7.66				
3/16/2018									
9/12/2018				5.65	7.75	6.86	7.02	7.12	6.54
9/13/2018	5.02	7.52							
9/14/2018			7.37						
3/13/2019				5.63	7.84			7.12	

Prediction Limit

Constituent: pH (SU) Analysis Run 6/18/2021 11:19 AM View: Appendix III - Interwell Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWC-48	GWC-46R	GWA-42 (bg)	GWA-43 (bg)	GWA-43R (bg)	GWA-39Z (bg)	GWA-41R (bg)	GWA-40 (bg)	GWA-41 (bg)
3/14/2019			7.57				6.93		6.58
3/15/2019	5.28					6.78			
3/18/2019		7.39							
9/9/2019						6.49		7.07	
9/10/2019			7.53				6.72		5.66
9/11/2019	4.93	7.36		5.53	7.75				
3/6/2020			7.42						6.82
3/9/2020	5.18			5.5	7.73	5.9	6.7	7.5	
3/10/2020		7.44							
9/10/2020			7.48			5.53	6.67		6.4
9/11/2020				6.25				6.98	
9/14/2020	5	7.43			7.76				
9/16/2020									
3/10/2021							7.3	7.3	
3/11/2021	4.95	7.53	7.53	5.55	7.81				6.8
3/12/2021						6.39			
3/16/2021									
5/26/2021	4.72	7.39							

Prediction Limit

Constituent: pH (SU) Analysis Run 6/18/2021 11:19 AM View: Appendix III - Interwell Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

GWA-39RZ (bg)

3/10/2016	
3/11/2016	
3/14/2016	
3/15/2016	
5/11/2016	
5/12/2016	
5/13/2016	
5/16/2016	7.61 (D)
5/17/2016	
7/19/2016	
7/20/2016	
7/21/2016	
7/22/2016	
7/26/2016	
7/27/2016	7.51 (D)
9/15/2016	
9/16/2016	
9/19/2016	
9/20/2016	
9/21/2016	
11/2/2016	
11/3/2016	
11/4/2016	
1/17/2017	
1/18/2017	
1/20/2017	
1/23/2017	
2/21/2017	7.76 (D)
3/24/2017	
3/27/2017	7.7 (D)
3/28/2017	
5/24/2017	
6/6/2017	
6/7/2017	
6/8/2017	7.69 (D)
7/17/2017	7.57 (D)
7/26/2017	7.63
7/27/2017	7.63
8/8/2017	7.73
8/9/2017	7.73
9/22/2017	
9/25/2017	
9/26/2017	
9/29/2017	7.7 (D)
12/28/2017	
3/14/2018	
3/15/2018	
3/16/2018	7.49
9/12/2018	
9/13/2018	
9/14/2018	7.32
3/13/2019	

Prediction Limit

Constituent: pH (SU) Analysis Run 6/18/2021 11:19 AM View: Appendix III - Interwell Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

	GWA-39RZ (bg)
3/14/2019	7.46
3/15/2019	
3/18/2019	
9/9/2019	
9/10/2019	7.48
9/11/2019	
3/6/2020	
3/9/2020	7.68
3/10/2020	
9/10/2020	
9/11/2020	
9/14/2020	
9/16/2020	7.68
3/10/2021	
3/11/2021	
3/12/2021	
3/16/2021	7.85
5/26/2021	

FIGURE R.

Trend Tests - Prediction Limit Exceedances - Resample Results (Significant)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP

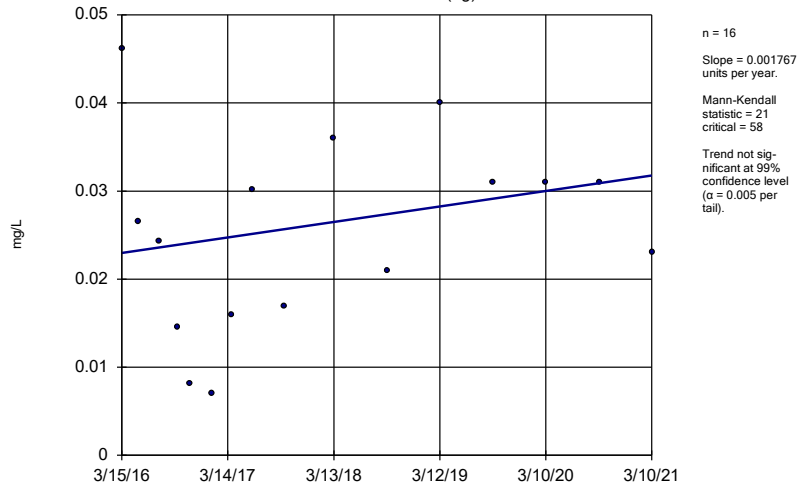
Trend Tests - Prediction Limit Exceedances - Resample Results (All)

Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR Printed 6/18/2021, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-39RZ (bg)	0.0005584	23	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-39Z (bg)	0.0009314	13	58	No	16	12.5	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-40 (bg)	-0.0005076	-36	-53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41 (bg)	-0.001564	-55	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-41R (bg)	0.001767	21	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-42 (bg)	0.00006759	26	58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43 (bg)	-0.003619	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-43R (bg)	-0.0001579	-37	-58	No	16	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-48	0.001531	40	63	No	17	5.882	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39RZ (bg)	-0.0001177	-23	-53	No	15	40	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-39Z (bg)	0	-3	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-40 (bg)	0	-26	-58	No	16	75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41 (bg)	0	-3	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-41R (bg)	0	-10	-58	No	16	87.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-42 (bg)	0	-11	-58	No	16	93.75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43 (bg)	0	-16	-58	No	16	75	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-43R (bg)	-0.00009397	-22	-58	No	16	37.5	n/a	n/a	0.01	NP
Chromium (mg/L)	GWC-46R	0.0003972	34	63	No	17	17.65	n/a	n/a	0.01	NP
pH (SU)	GWA-39RZ (bg)	-0.003632	-7	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-39Z (bg)	-0.01862	-6	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWA-40 (bg)	-0.03578	-30	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41 (bg)	0.01645	6	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	GWA-41R (bg)	-0.112	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-42 (bg)	0	0	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43 (bg)	-0.2208	-86	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GWA-43R (bg)	-0.01551	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GWC-48	-0.04109	-58	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39RZ (bg)	-0.3795	-9	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-39Z (bg)	-1.093	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-40 (bg)	0.1043	29	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41 (bg)	0.1662	15	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-41R (bg)	0.8058	35	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-42 (bg)	0.05143	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43 (bg)	-0.1968	-68	-58	Yes	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-43R (bg)	-0.3994	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-48	0.01919	6	68	No	18	5.556	n/a	n/a	0.01	NP

Sen's Slope Estimator

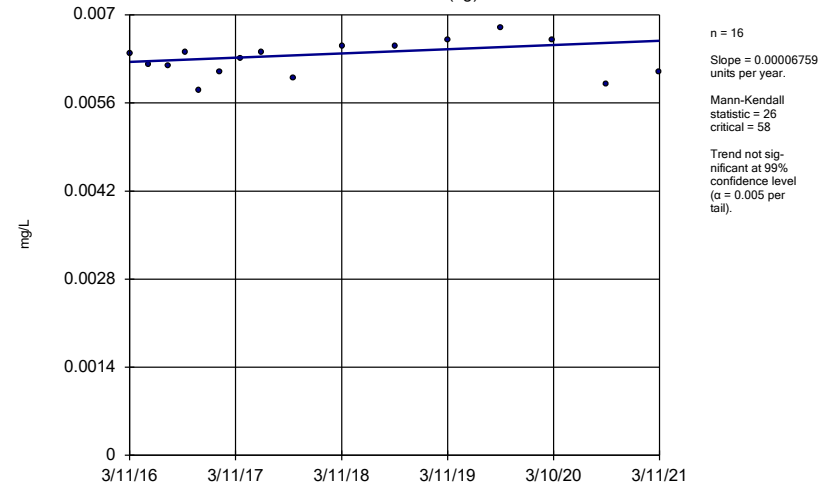
GWA-41R (bg)



Constituent: Barium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

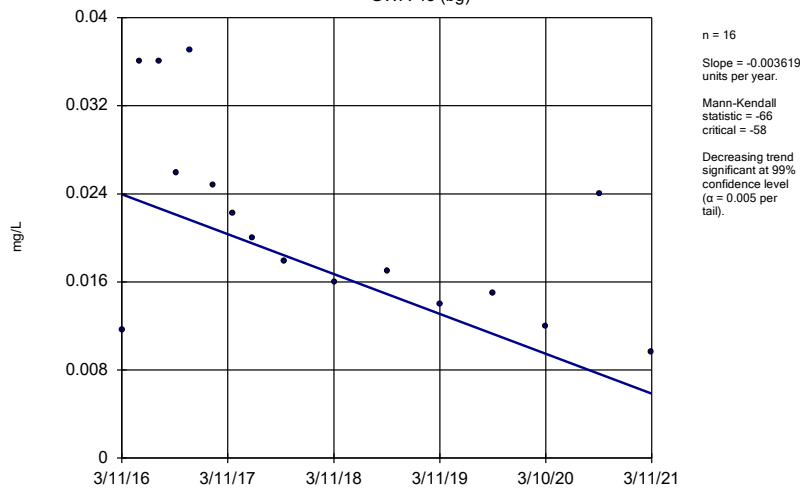
GWA-42 (bg)



Constituent: Barium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

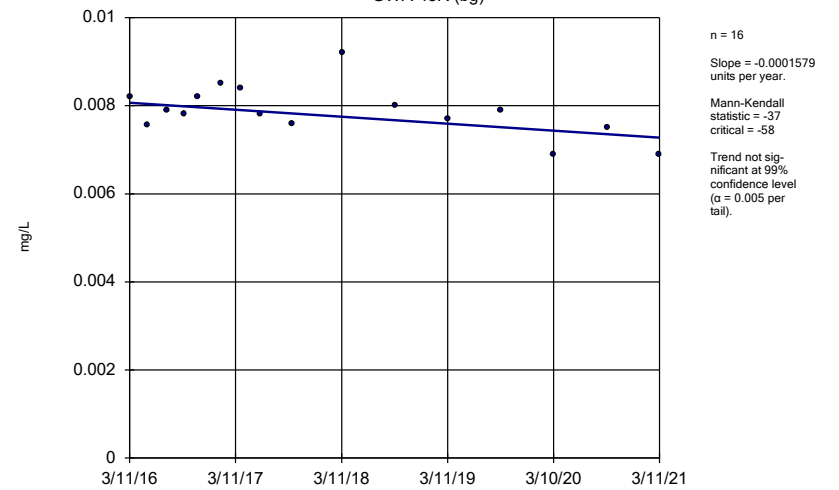
GWA-43 (bg)



Constituent: Barium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

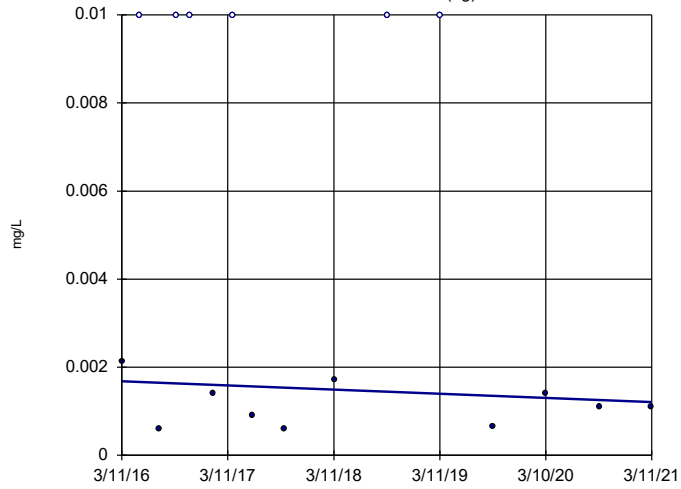
GWA-43R (bg)



Constituent: Barium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-43R (bg)

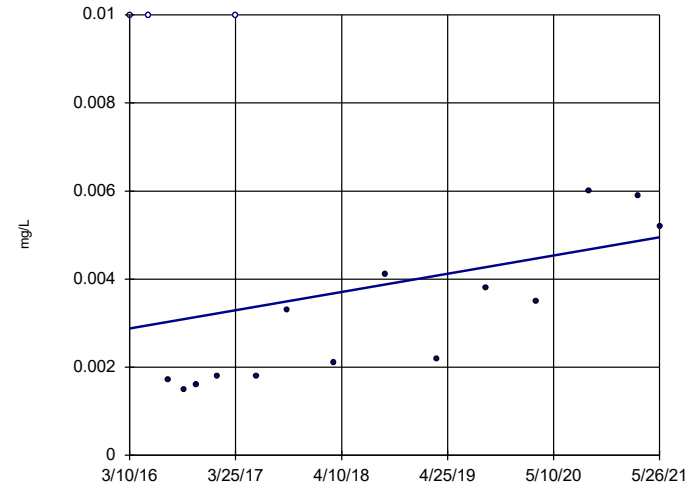


n = 16
Slope = -0.0009397
units per year.
Mann-Kendall
statistic = -22
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWC-46R

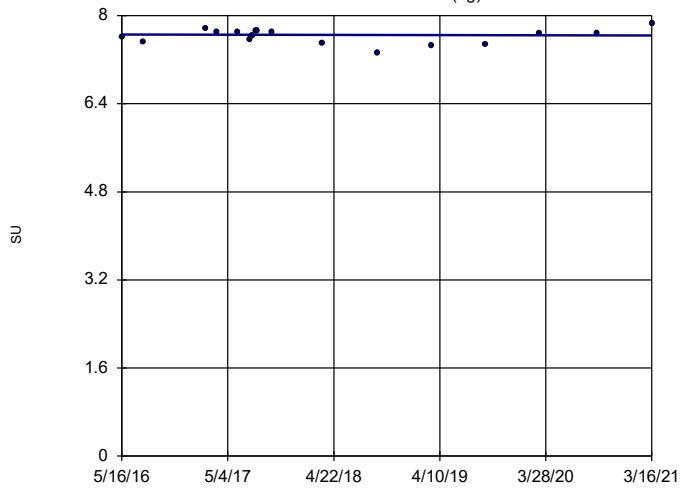


n = 17
Slope = 0.0003972
units per year.
Mann-Kendall
statistic = 34
critical = 63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39RZ (bg)

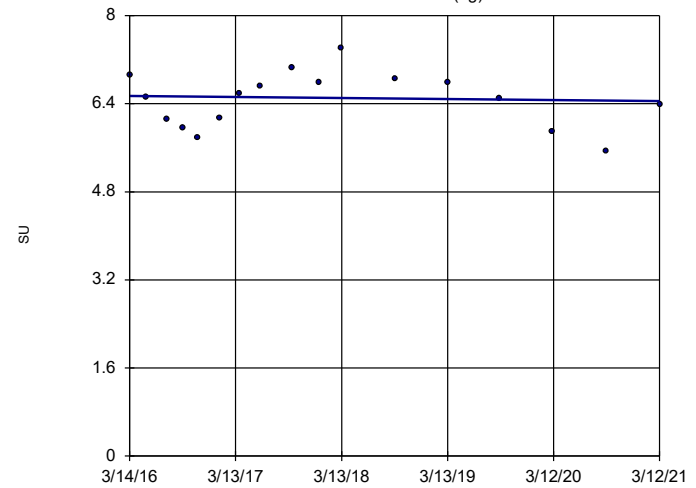


n = 18
Slope = -0.003632
units per year.
Mann-Kendall
statistic = -7
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39Z (bg)

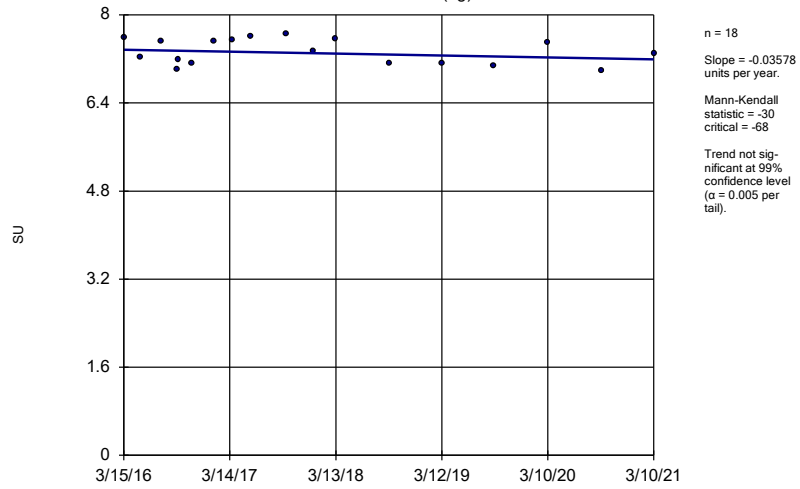


n = 17
Slope = -0.01862
units per year.
Mann-Kendall
statistic = -6
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

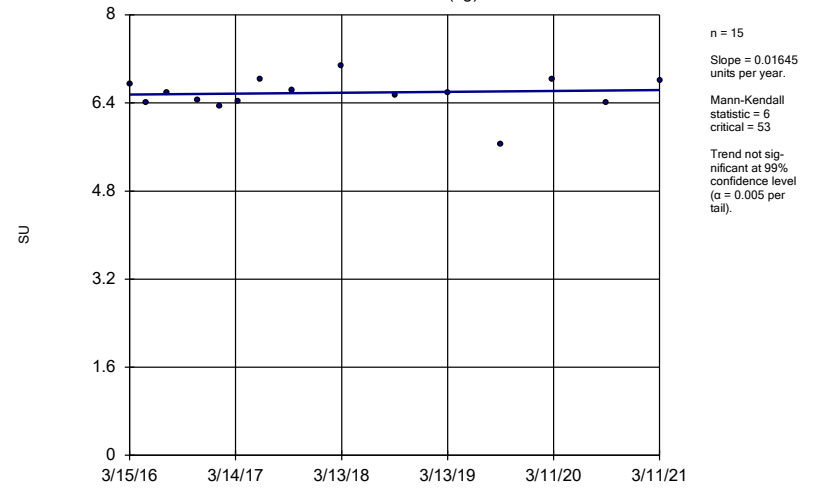
GWA-40 (bg)



Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

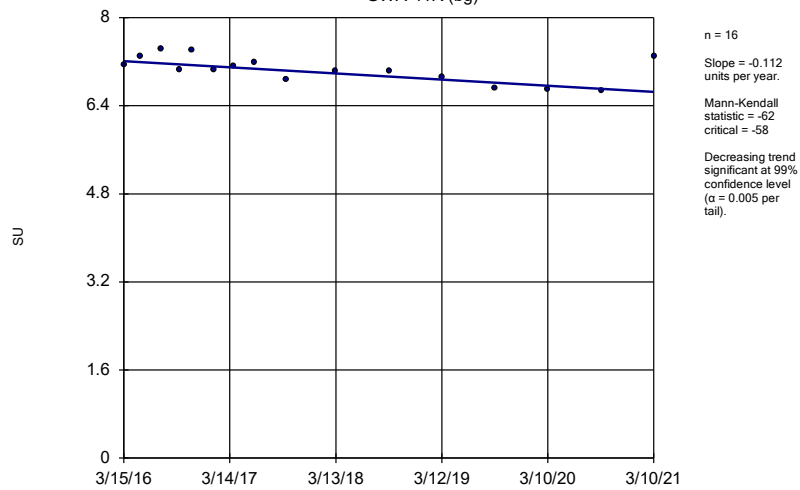
GWA-41 (bg)



Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

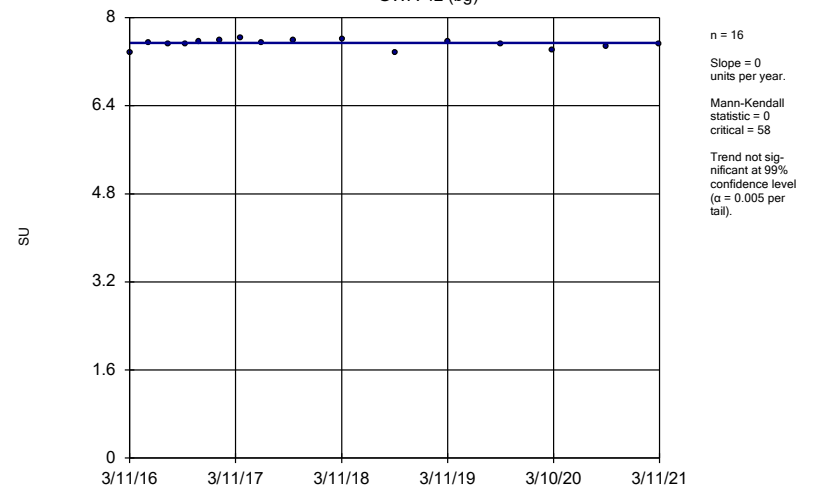
GWA-41R (bg)



Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

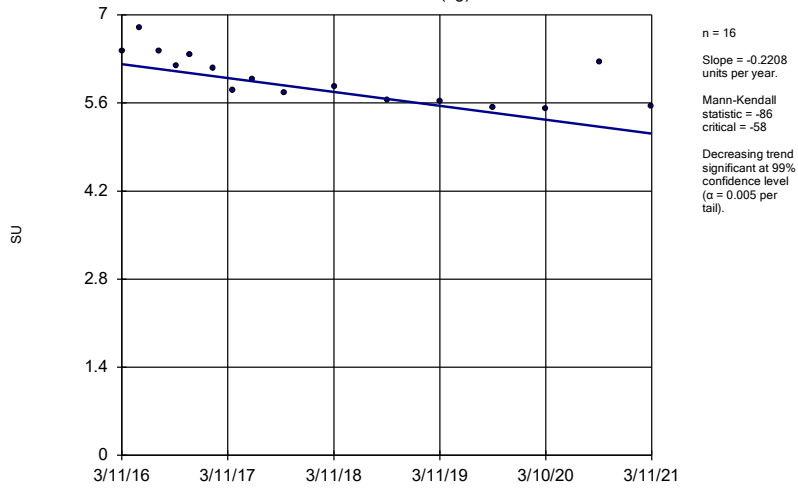
Sen's Slope Estimator

GWA-42 (bg)



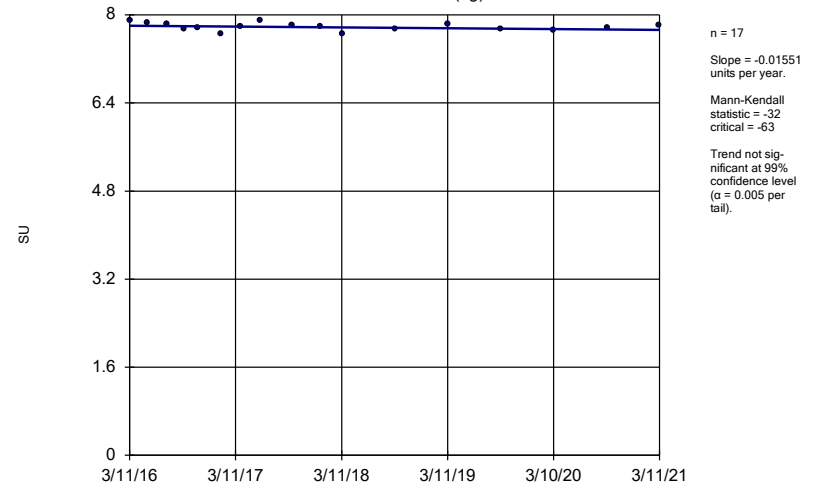
Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43 (bg)



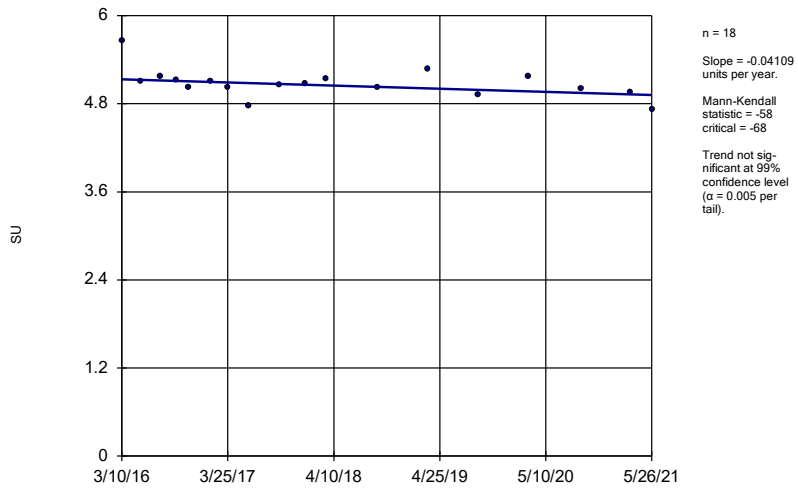
Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWA-43R (bg)



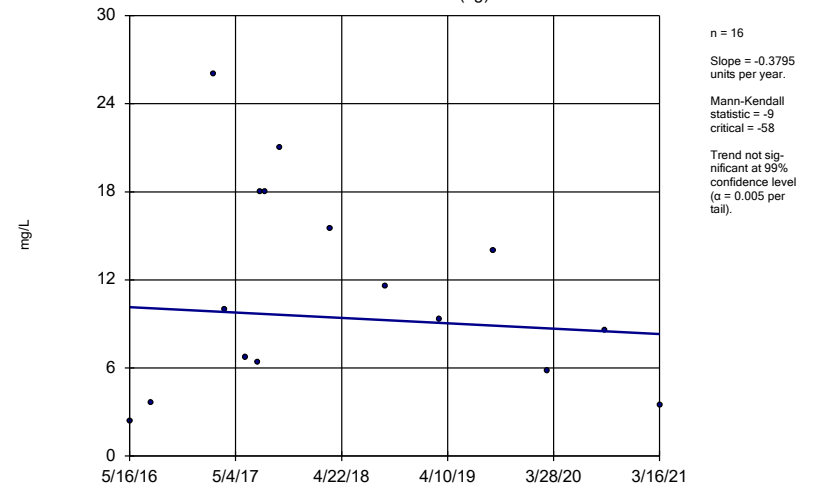
Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator
GWC-48



Constituent: pH Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

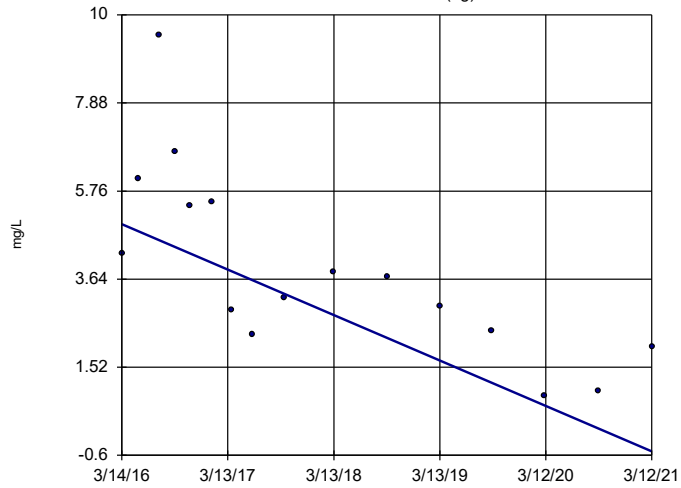
Sen's Slope Estimator
GWA-39RZ (bg)



Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-39Z (bg)



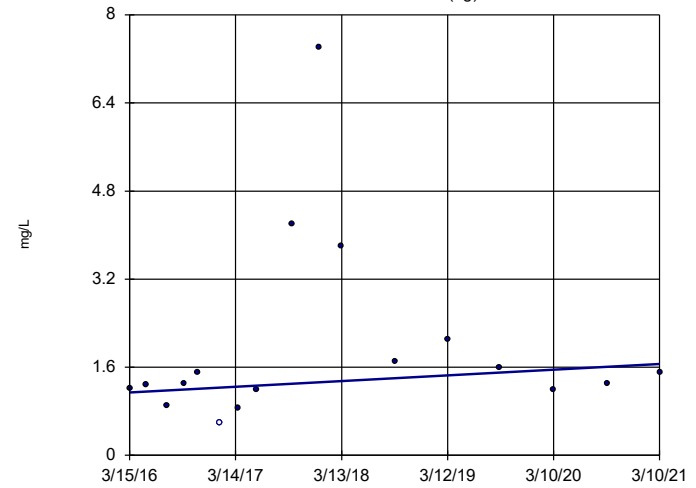
n = 16
 Slope = -1.093 units per year.
 Mann-Kendall statistic = -76
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-40 (bg)

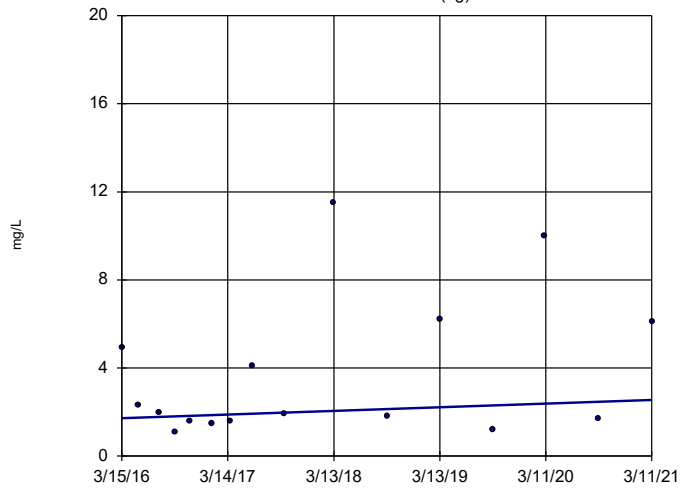


n = 17
 Slope = 0.1043 units per year.
 Mann-Kendall statistic = 29
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator

GWA-41 (bg)



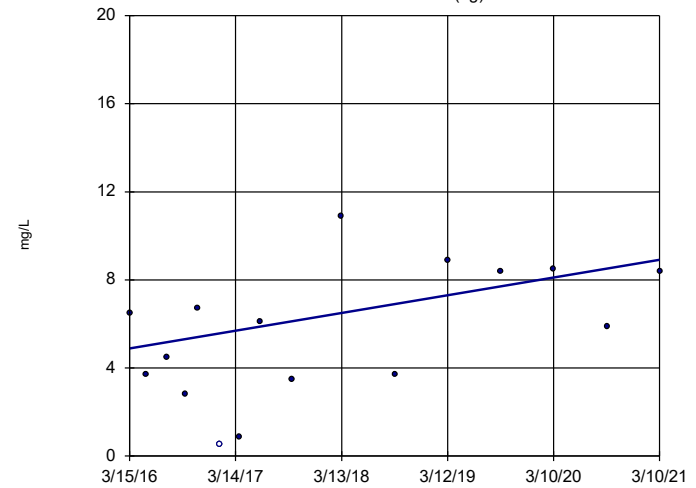
n = 16
 Slope = 0.1662 units per year.
 Mann-Kendall statistic = 15
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

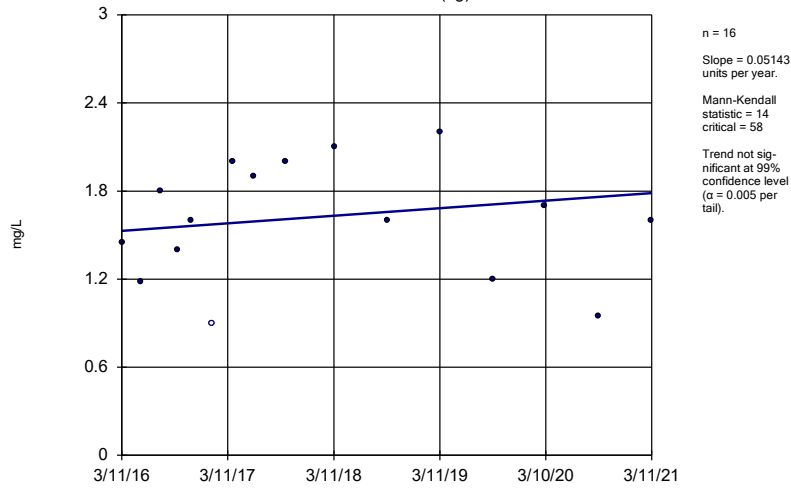
GWA-41R (bg)



n = 16
 Slope = 0.8058 units per year.
 Mann-Kendall statistic = 35
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

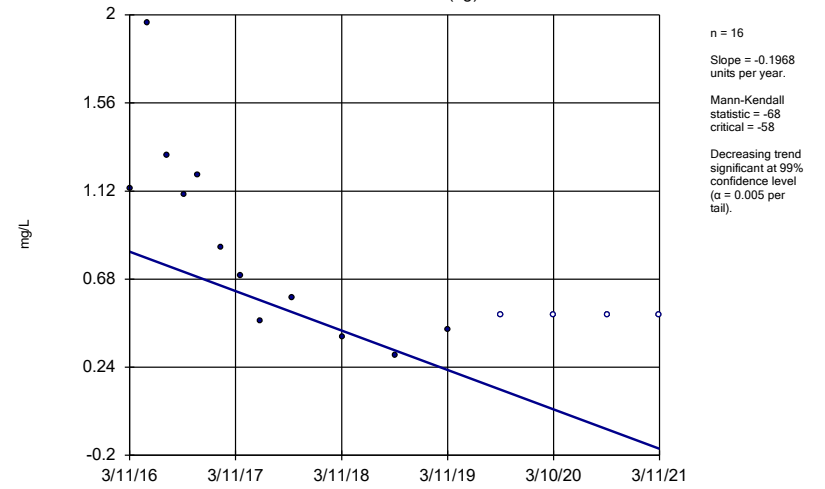
Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
 Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWA-42 (bg)



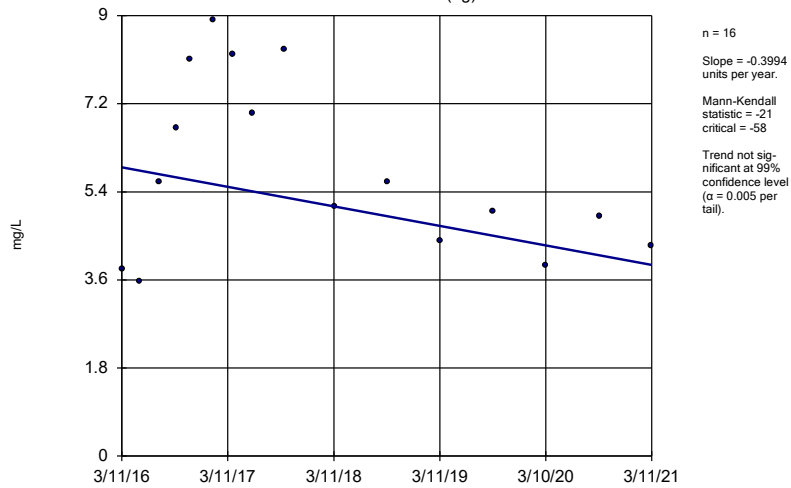
Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWA-43 (bg)



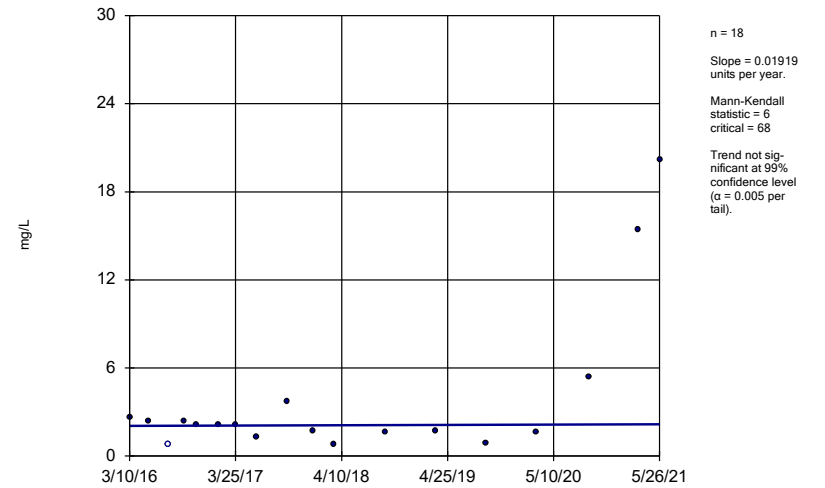
Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWA-43R (bg)



Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR

Sen's Slope Estimator GWC-48



Constituent: Sulfate Analysis Run 6/18/2021 11:43 AM View: Trend Tests - Resample
Plant Bowen Client: Southern Company Data: Bowen 9 and 10 CCR